

## FACULTY PROFILE

### Dr. NAGASWARUPA H. P.

**PROFESSOR**

**DEPARTMENT OF STUDIES IN CHEMISTRY**

**Qualification** : M.Sc., M. Phil., M. Tech., Ph. D.

**Areas of Specialization** : Analytical Chemistry, Material Science,  
Nano Science & Technology

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**Contact Number** : 9945406900



### Vision

A challenging role in an institution, which offers tremendous growth, potential and wide exposure to research and education, fully utilizing my skills in academics and research. Pursue a successful research career in Material Science, Nano Science & Technology and further, put to use the best of my knowledge and experience towards solutions in Research and Development for a better world.

### Educational Qualifications

| Sl. No. | Degree          | Specialization/<br>Subjects                   | University  | Year of Award/<br>Passing |
|---------|-----------------|---|---|---------------------------|
| 1       | <b>M. Tech.</b> | Chemical Engg.                                | Karnataka State Open University                                     | 2015                      |
| 2       | <b>PhD.</b>     | Corrosion Studies<br>/Chemistry               | Bharathidasan University<br>Guide name: Dr. A. Abdul Jameel         | 2012                      |
| 3       | <b>M.Phil.</b>  | Antioxidants &<br>Antidiabetics<br>/Chemistry | Bharathidasan University<br>Guide name:<br>Dr. B. V. Somashekaraiah | 2006                      |
| 4       | <b>PG</b>       | Analytical Chemistry                          | Bangalore University  | 2002                      |
| 5       | <b>UG</b>       | Chemistry, Botany,<br>Microbiology            | Bangalore University  | 1998                      |

### Professional Details (Academic/Research Experience)

| Sl. No. | Designation            | Institution/University             | UG/PG            | From                            | To                                 |
|---------|------------------------|------------------------------------|------------------|---------------------------------|------------------------------------|
| 1       | Professor              | Davangere University,<br>Davangere | PG &<br>Research | 20 <sup>th</sup> August<br>2022 | Till Date                          |
| 2       | Associate<br>Professor | Davangere University,<br>Davangere | PG &<br>Research | 20 <sup>th</sup> August<br>2019 | 19 <sup>th</sup><br>August<br>2022 |

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|---|---|--|---------------|--------------------|---------------------|
| 3 | Professor & Director, Research Center           | East West Institute Technology, Bangalore/Visvesvaraya Technological University (VTU)                | UG & Research | 1st March 2013     | 19th August 2019.   |
| 4 | Associate Professor & Director, Research Center | East West Institute Technology, Bangalore/Visvesvaraya Technological University (VTU)                | UG & Research | 1st August 2012    | 28th February 2013. |
| 5 | Assistant Professor                             | East West Institute Technology, Bangalore/Visvesvaraya Technological University (VTU)                | UG            | 1st April 2011     | 31st July 2012      |
| 6 | Senior Lecturer                                 | East West Institute Technology, Bangalore/Visvesvaraya Technological University (VTU)                | UG            | 19th October 2006  | 31st March 2011.    |
| 7 | Lecturer  | East West Institute Technology, Bangalore/Visvesvaraya Technological University (VTU)                | UG            | 19th October 2005  | 18th October 2006   |
| 8 | Lecturer,                                       | Golden Valley Institute of Technology, Kolar Gold Fields/Visvesvaraya Technological University (VTU) | UG            | 13th November 2003 | 11th October 2005.  |

#### Areas of Research Interest:

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| 1. | Materials Science         |
| 2. | Nano Science & Technology |

#### Academic/Administrative responsibilities:

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| 1. | <b>Chairman, Board of Studies</b> , UG & PG Chemistry for the year 2022 – 2025 of Davangere University.<br><b>Member of Board of Studies</b> PG Chemistry for the year 2019 – 2022, of Davangere University. |
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| 2. | <p><b>Chairman, Board of Examiners</b> PG Chemistry for the year 2021 – 2022 of Davangere University.</p> <p><b>Chairman</b> of Board of Examiners (Nano Technology Composite Board) for the year 2015-2016, of Visvesvaraya Technological University (VTU), Belgaum.</p>  |
| 3. | <p><b>Member</b>, (2023 - 2025) Centre for Internal Quality Assurance (CIQA) of Karnataka State Open University, Mysore, Karnataka.</p> <p><b>Member</b>, NEP Implementation Committee of Karnataka Folklore University, Gotagudi, Karnataka.</p> <p><b>Member</b> of Board of Examiners PG Chemistry for the year 2022 – 2023 Mangalore University, Mangalore, 2021 - 2022 Vijayanagara Sri Krishnadevaraya University, Ballari, 2020-2021 Rani Channamma University, Belgaum.</p> <p><b>Member</b> of Board of Examiners PG Chemistry for the year 2022 – 2023, 2020-2021 &amp; 2019 – 2020, of Davangere University.</p> <p><b>Member</b>, Appointment of Board of Examiners for UG &amp; PG Chemistry for the year 2021-2022, 2020-2021 of Davangere University, Davangere.</p> <p><b>Member Department Council</b> of PG &amp; Research Department of Chemistry, Davangere University for the year 2019 – 2020.</p> <p><b>Member</b> of Board of Examiners (Chemistry Composite Board) for the year 2019 – 2020, 2016-2017 &amp; 2013-2014, of Visvesvaraya Technological University (VTU), Belgaum.</p> <p>Worked as <b>BOE Member</b> for the Even semester of 2015 -2016 for Dayananda Sagar College of Engineering, odd semester 2014, Odd &amp; Even semester 2011 - 2012 for Dr. Ambedkar Institute of Technology and Odd semester 2011 - 2012 for Nitte Meenakshi Institute of Technology an Autonomous Institutions affiliated to VTU, Belgaum.</p> |
| 4. | <p><b>Doctoral Committee Member</b> of PG &amp; Research Department of Chemistry, Davangere University for the year 2019 – 2020.</p> <p><b>Doctoral Committee Member</b> of VTU – RRC of Nanotechnology Department for the year 2019 – 2020.</p> <p><b>Expert Member</b>, Research Project Review Panel (RPRP) for evaluation of Research Proposals under VTU Research Grant Scheme (RGS) -2021.</p> <p><b>Subject Expert</b> for the Selection Committee of SERB, DST sponsored research project to Department of Nanotechnology, Center for Post Graduate Studies, Visvesvaraya Technological University (VTU).</p>  |
| 5. | <p><b>Member Local Inquiry Committee</b> for the academic year 2016 – 2017 of (VTU), Belgaum, 2021 – 2022, 2020 – 2021 &amp; 2019 – 2020 of Davangere University.</p>  |
| 6. | <p><b>Special Invitee</b> of Ph.D. Registration Expert Committee in General Science, for the year 2015- 2016, of Visvesvaraya Technological University (VTU), Belgaum.</p>   |
| 7. | <p><b>NAAC Assessor</b> for Assessment &amp; Accreditation Process from 21st Feb, 2019.</p> <p><b>NAAC Steering Committee Coordinator</b> from 25/01/2016 to 19/08/2019 at East West Institute of Technology.</p>  |
| 8. | <p><b>GC member</b> of “The Zero Waste Society of India”, IISc, Bangalore for the year 2019 – 2020.</p> <p><b>General Secretary</b> of “The Electrochemical Society of India”, IISc, Bangalore for the year 2018 – 2020.</p> <p><b>GC member</b> of “The Electrochemical Society of India”, IISc, Bangalore for the year 2011 – 2018.</p>  |

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| 9.  | <b>Sub-Committee member</b> of National Service Scheme (NSS) Cell of Visvesvaraya Technological University (VTU), Belgaum, from May 2013.   |
| 10. | <b>Expert Committee Member</b> of the University Programme on “Strengthening Academics” by the Teerthanker Mahaveer University, Moradabad (U.P.), India.  |
| 11. | <b>Subject Expert</b> , committee member of Sambhram Institute of Technology, Bangalore for the staff requirement in Engineering Chemistry.   |
| 12. | <b>Associate Editor</b> of Journal of the Electrochemical Society of India<br><b>Executive Editor</b> of International Journal of Researches in Biosciences, Agriculture & Technology<br><b>Editorial Board Member</b> of Journal of the Electrochemical Society of India<br><b>Reviewer</b> of New Journal of Chemistry, Royal Society of Chemistry Publishing, Diamond & Related Materials, Elsevier, Materials Today Proceedings, Elsevier, Applied Organometallic Chemistry, Wiley, Journal of Luminescence, Elsevier, Materials Chemistry and Physics, Elsevier, Journal of Nanostructure in Chemistry, Springer, Journal of Radiation Research and Applied Sciences, Elsevier, Electrochimica Acta, A Journal of the International Society of Electrochemistry, Elsevier, Tata McGraw-Hill Publishing Company Ltd, Orient BlackSwan Pvt. Ltd, Journal of Engineering and Technology Research. |
| 13. | Worked as <b>Head of the Department</b> of Basic Sciences & Humanities at east West Institute of Technology from 25th January 2016 to 19th August 2019.<br>Worked as <b>Head of the Department</b> of Chemistry at east West Institute of Technology from 19th October 2005 to 24th January 2016.   |
| 14. | Worked as a <b>Director</b> , Research Center (Affiliated to Visvesvaraya Technological University (VTU), Belgaum), Department of Chemistry, East West Institute Technology, Bangalore, from 1st June 2012 to 19th August 2019.   |
| 15. | At East West Institute Technology, Bangalore<br><b>NSS Programme Officer</b> from 01/04/2006 to 19/08/2019<br><b>Programme Officer for Youth Red Cross Unit</b> from 08/08/2012 to 19/08/2019.<br><b>IQAC member</b> from 25/01/2016 to 19/08/2019<br><b>ISTE Secretary-cum-Treasurer</b> from 01/08/2007 to 28/02/2013<br><b>VTU Coordinator</b> from 17/12/2007 to 19/08/2019.<br><b>Nodal Officer</b> of “Intellectual Property Rights” Cell of Davangere University, Davangere from 6th Oct 2020.<br><b>NAAC Coordinator</b> of Davangere University, Davangere from 9th June 2020.   |
| 16. | <b>Chairman</b> Stock Verification Committee for the academic year 2020 – 2021, 2021-2022 of Davangere University.<br><b>Member</b> , Annual Report Preparation Committee 2019 -2020 & 2020 -2021 of Davangere University, Shivangangothri, Davangere.<br><b>Executive Council Member</b> of “Society for Technologically Advanced Material of India” (STAMI), Nagpur, India for the year 2017- 2022.   |
| 17. | <b>Honorary Director</b> VMS Research Foundation, Nagpur, India from 3rd June 2021.<br><b>Research Advisor</b> of Sarojaayudh Vastram Bharath Pvt. Ltd a start up company in Bangalore, India from 2021.  |

| Research Projects: |   |  |                  |             |           |
|--------------------|---|--|------------------|-------------|-----------|
| Sl. No.            | Title of the Project  | Funding Agency   | Project Budget   | Period      | Status    |
| 1                  | Designing of Portable Device for Determination of Heavy Metals in Water           | Government of India, Ministry of Science & Technology, Department of Science & Technology under Technology Development Transfer Division, Device Development Programme | Rs. 35,57,975.00 | 2020 - 2022 | On-going  |
| 2                  | Intellectual Property Rights & Innovations (A Grant of for organizing Conference) | AICTE, Ministry of HRD, Government of India.   | Rs. 2,00,000.00  | 2019 - 2020 | Completed |
| 3                  | Plating of Nano metal oxides on multiple substrates                               | Greenotronix, Plating Pvt. Ltd., Bengaluru, Karnataka.   | Rs. 1,22,000.00  | 2018 - 2019 | Completed |
| 4                  | Development of Novel Nanomaterials for Space Based Radiation Detection            | Indian Space Research Organization, Department of Space, Government of India.  | Rs. 2260000.00   | 2017 - 2019 | Completed |
| 5                  | Development of Low Cost Nano-Particles for Corrosion Resistance Studies           | Government of Karnataka, Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science & Technology.                         | Rs. 30 Lakhs     | 2012 - 2015 | Completed |

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|---|--|--|-----------------|-------------|-----------|
| 6 | Development of Nano metal borates for battery & super capacitor applications | Government of Karnataka, Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science & Technology. | Rs. 40 Thousand | 2015 – 2016 | Completed |
| 7 | Recovery of Metals from Grinding Wastes by Chemical Method                   | Government of Karnataka, Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science & Technology. | Rs. 40 Thousand | 2012 – 2013 | Completed |

#### Research Publications:

##### a) International Journals (119)

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| 1. | Novel synthesis of $\text{Cu}_2\text{ZnAl}_2\text{O}_4$ nanostructures for photocatalytic and electrochemical sensor applications, H.V. Harini, <b>H.P. Nagaswarupa</b> , Eneyew Tilahun Bekele, H.C. Ananda Murthy, C.R. Ravikumar, <b>Sensors International</b> , 4, 100225, 2023. (Impact Factor: ) ISSN: 2666-3511   |
| 2. | Advanced strategies for hydrogen generation by rhodium metal catalysts coated by the electrodeposition method, Bharath K. Devendra, B.M. Praveen, V.S. Tripathi, D.H. Nagaraju, Mahesh Padaki, <b>H.P. Nagaswarupa</b> , R. Hari Krishna, <b>Applied Surface Science Advances</b> , 12, 100320, 2022. (Impact Factor: 2.983) ISSN: 2666-5239   |
| 3. | Photocatalytic degradation of Methylene Blue and electrochemical sensing of paracetamol using Cerium oxide nanoparticles synthesized via sonochemical route, K.B. Kusuma, M. Manju,, C.R. Ravikumar, N Raghavendra, M.A. Shilpa Amulya, <b>H.P. Nagaswarupa</b> , H.C. Ananda Murthy, M.R. Anil Kumar, T.R. Shashi Shekhar, <b>Applied Surface Science Advances</b> , 11, 100304, 2022. (Impact Factor: 2.983) ISSN: 2666-5239 |
| 4. | $\text{MgNb}_2\text{O}_6\text{:Dy}^{3+}$ nanophosphor: A facile preparation, down conversion photoluminescence and UV driven photocatalytic properties, N Basavaraju, SC Prashantha, H Nagabhushana, C Pratapkumar, CR Ravikumar, MR Anil Kumar, BS  |

Surendra, TR Shashi Shekhar, HB Premkumar, **H P Nagaswarupa**, **Ceramics International**, 47, 10370-10380, 2021. (Impact Factor:5.532) ISSN: 0272-8842.

5. Role of Phytonutrients in Nutrigenetics and Nutrigenomic Perspective in Curing Breast Cancer, Tanima Bhattacharya, Soumam Dutta, Rokeya Akter, Md. Habibur Rahman, Chenmala Karthika, **Hechanur Puttappa Nagaswarupa**, Hanabe Chowdappa Ananda Murthy, Ovidiu Fratila, Roxana Brata, Simona Bungau, **Biomolecules**, 11, 1176, 2021. (Impact Factor: 4.694 ) ISSN: 2218-273X.
6. Methotrexate-Loaded Gelatin and Polyvinyl Alcohol (Gel/PVA) Hydrogel as a pH-Sensitive Matrix, Muhammad Akhlaq, Abul Kalam Azad, Inam Ullah, Asif Nawaz, Muhammad Safdar, Tanima Bhattacharya, A. B. M. Helal Uddin, Syed Atif Abbas, Allan Mathews, Sukalyan Kumar Kundu, Mireia Mallandrich Miret, H. C. Ananda Murthy, **H. P. Nagaswarupa**, **Polymers**, 13, 2300, 2021. (Impact Factor: 4.329 ) ISSN: 2073-4360
7. Green Synthesis of CuO Nanostructures using Syzygium guineense (Willd) DC Plant Leaf Extract and Their Applications, H C Ananda Murthy, Tegene Desalegn, CR Ravikumar, **H P Nagaswarupa**, **Journal of Nanostructures**, 11(1): 81-94, Winter 2021, (Impact Factor: 1.371) ISSN: 2251-788X
8. Development of clay ferrite nanocomposite: Electrochemical, sensors and photocatalytic studies, N. Raghavendra, **H.P. Nagaswarupa**, T.R. Shashi Shekhar, M. Mylarappa, B.S. Surendra, S.C. Prashantha, C.R. Ravikumar, M.R. Anil Kumar, N. Basavaraju, **Applied Surface Science Advances**, 5, 100103, 2021. (Impact Factor: 2.983) ISSN: 2666-5239
9. Eco-friendly synthesis of CeO<sub>2</sub> NPs using Aloe barbadensis Mill extract: Its biological and photocatalytic activities for industrial dye treatment applications, Bhuvan Raj N, Pavithra Gowda N. T, Pooja O. S, Sukrutha S. K, Purushotham B, **Nagaswarupa H. P**, Anil Kumar M. R, Surendra B S, Shashi Shekhar T R, Prashantha S C, **Journal of Photochemistry and Photobiology**, 7, 100038, 2021, (Impact Factor:) ISSN: 2666-4690
10. Graphene-supported nonmaterials as electrochemical sensors: A mini review, H.C. Ananda Murthy, Kiflom Gebremedhn Kelele, C.R. Ravikumar, **H.P. Nagaswarupa**, Aschalew Tadesse, Tegene Desalegn, **Results in Chemistry**, 3, 100131, 2021. (Impact Factor:3.830) ISSN: 2211-7156.
11. Development of Co-doped MnFe<sub>2</sub>O<sub>4</sub> nanoparticles for electrochemical supercapacitors, V.V. Deshmukh, **H.P. Nagaswarupa**, N. Raghavendra, **Ceramics International**, 47, 10268-10273, 2021. (Impact Factor: 5.532) ISSN: 0272-8842.
12. Fabrication of carbonized flakes epoxy electrode using lemon rind for supercapacitor applications, M.R. Anil Kumar, C.R. Ravikumar, H.C. Ananda Murthy,



Mir Waqas Alam, **H.P. Nagaswarupa**, B.R. Mohan , M.S. Santosh, M. Rudresh, A. Murugan, Satish Babu Boppana, **Case Studies in Chemical and Environmental Engineering**, 3, 100090, 2021, (Impact Factor:7.617) ISSN: 2666-0164

13. Harnessing ZnO nanoparticles for antimicrobial and photocatalytic activities, N. Bhuvan Raj, N.T. Pavithra Gowda, O.S. Pooja, B. Purushotham, M.R. Anil Kumar, S.K. Sukrutha, C.R. Ravikumar, **H.P. Nagaswarupa**, H.C. Ananda Murthy, Satish Babu Boppana, **Journal of Photochemistry and Photobiology**, 6, 100021, 2021, (Impact Factor:) ISSN: 2666-4690
14. Synthesis of BMA NPs using Aloe Vera Gel for their Electrochemical, Biological and Photocatalytic Studies, M. Vasudha, Devaraja Gayathri, Soundarya S Gurum, MR Kavya, **H P Nagaswarupa**, B.S. Surendra, T R. Shashi Shekhar, C R Ravikumar, N Basavaraju, C Prathapkumar, **Journal of Photochemistry and Photobiology**, 6, 100017, 2021, (Impact Factor:) ISSN: 2666-4690
15. Microwave assisted rapid synthesis of phenoxazines and benzopyridoxazines, Kavitha Anchan, **Nagaswarupa H. P**, Baburajan Poongavanam, and Sujit Kumar Sarkar, **Synthetic Communications**, 51, 4, 635–646, 2021, (Impact Factor: 2.007) ISSN: 0039 – 7911.
16. Facile Chemical Synthesis of  $\text{Ca}_3\text{MgAl}_{10}\text{O}_{17}$  Nanomaterials for Photocatalytic and Non-Enzymatic Sensor applications, M. Vasudha , Akif Ahamed Khan , K.M. Bhumika , Devaraja Gayathri , **H.P. Nagaswarupa**, T.R. Shashi shekhar , N. Raghavendra , C.R. Ravikumar , H.C. Ananda Murthy , K. Vinutha, M.R. Anil Kumar, B.S. Surendra **Sensors International**, 2, 100082, 2021. (Impact Factor: ) ISSN: 2666-3511
17. Electrochemical Sensor Studies and Optical Analysis of Developed Clay based  $\text{CoFe}_2\text{O}_4$  ferrite NPs, N. Raghavendra, **H.P. Nagaswarupa**, T.R. Shashi Shekhar, M. Mylarappa, B.S. Surendra , S.C. Prashantha , N. Basavaraju , C.R. Ravi Kumar , M.R. Anil Kumar, **Sensors International**, 2, 100083, 2021. (Impact Factor: ) ISSN: 2666-3511.
18. Luminescent and thermal properties of novel orange–red emitting  $\text{MgNb}_2\text{O}_6\text{:Sm}^{3+}$  phosphors for displays, photo catalytic and sensor applications, N. Basavaraju, S. C. Prashantha, H. Nagabhushana, A. Naveen Kumar, M. Chandrasekhar, T. R. Shashi Shekhar, C. R. Ravikumar, M. R. Anil Kumar, B. S. Surendra, **H. P. Nagaswarupa**, **SN Applied Sciences**, 3, 54, 2021. (Impact Factor:2.114) ISSN: 2523-3963.
19. Cyclic Voltammetry and Electrochemical Impedance Spectroscopy Analysis of  $\text{Cr}^{3+}$  Doped  $\text{Mg}_2\text{SiO}_4$  Nanoparticles for Supercapacitor Applications, Ramachandra Naik, V. Revathi, S.C. Prashantha, H. Nagabhushana, K.M. Girish and **H.P. Nagaswarupa**, **Material Science Research India**, 17 (3), 2020. (Impact Factor: 0.565) ISSN: 0973-3469



20. Enhanced photocatalytic and electrochemical properties of Cu doped NiMnFe<sub>2</sub>O<sub>4</sub> nanoparticles synthesized via probe sonication method, M.A. Shilpa Amulya, **H.P. Nagaswarupa**, M.R. Anil Kumar, C.R. Ravikumar, K.B. Kusuma, **Applied Surface Science Advances**, 2, 100038, 2020. (Impact Factor: 2.814) ISSN: 2666-5239
21. Synthesis and characterisation of Green CuO using Centella Asiatica Plant Leaf Extract: Electrochemical and Photocatalytic Activities, K. Rudresha, A Zahir Hussain, Ravikumar C. R., M.R. Anil Kumar, **H.P. Nagaswarupa**, M.S. Santhosh, H.C. Ananda Murthy, **Advanced Materials Letters**, 2021586, 11(12), 2020, (Impact Factor: 1.15) ISSN: 0976-3961
22. Evaluation of bifunctional applications of CuFe<sub>2</sub>O<sub>4</sub> nanoparticles synthesized by a sonochemical method, M.A. Shilpa Amulya, **H.P. Nagaswarupa**, M.R. Anil Kumar, C.R. Ravikumar, K.B. Kusuma, S.C. Prashantha, **Journal of Physics and Chemistry of Solids**, 148, 109756, 2021. (Impact Factor: 2.814) ISSN: 0022-3697
23. Photocatalytic and electrochemical sensor for direct detection of paracetamol comprising  $\gamma$ -aluminium oxide nanoparticles synthesized via sonochemical route, K.B. Kusuma, M. Manju, C.R. Ravikumar, **H.P. Nagaswarupa**, M.A. Shilpa Amulya, M.R. Anilkumar, B. Avinash, K. Gurushantha, N. Ravikantha, **Sensors International**, 1, 100039, 2020. (Impact Factor: ) ISSN: 2666-3511
24. Sonochemical synthesis of MnFe<sub>2</sub>O<sub>4</sub> nanoparticles and their electrochemical and photocatalytic properties, M.A. Shilpa Amulya, **H.P. Nagaswarupa**, M.R. Anil Kumar, C.R. Ravikumar, K. B. Kusuma, **Journal of Physics and Chemistry of Solids**, 148, 109661, 2021. (Impact Factor: 2.814) ISSN: 0022-3697
25. Sonochemical synthesis of NiFe<sub>2</sub>O<sub>4</sub> nanoparticles: characterization and their photocatalytic and electrochemical applications, M.A. Shilpa Amulya, **H.P. Nagaswarupa**, M.R. Anil Kumar, C.R. Ravikumar, S.C. Prashantha, K. B. Kusuma, **Applied Surface Science Advances**, 1, 100023, 2020. (Impact Factor: 2.814) ISSN: 2666-5239
26. Electrochemical and Photocatalytic Properties of Green Nickel Oxide Nanomaterial Synthesized using Plectranthus Amboinicus Plant Leaf Extract, N.B. Arun Kumar, J. Sirajudeen, **H.P. Nagaswarupa**, C.R. Ravikumar, M.R. Anil Kumar, H.C. Ananda Murthy, **Advanced Materials Letters**, 20091559, 11(9), 2020, (Impact Factor: 1.15) ISSN: 0976-3961
27. Lanthanum Doped Strontium Titanate Nanomaterial for Photocatalytic and Supercapacitor Applications, V.V. Deshmukh, **H.P. Nagaswarupa**, C.R. Ravikumar, M.R. Anil Kumar, T.R. Shashi Shekhar, H.C. Ananda Murthy, **Asian Journal of Chemistry**, 32, 8, 2013–2020, 2020, (Impact Factor: 3.698) ISSN: 0970-7077

28. Evaluation of Nanoclays based Polymer Nanocomposites for their Mechanical, Thermal and Fire Behavior Properties, S.B. Kapoor, N. Raghavendra, **H.P. Nagaswarupa**, **Journal of Critical Reviews**, 7, 16, 1036 – 1047, 2020. (Impact Factor: 0.97) ISSN: 2394-5125
29. Electrochemical properties of biogenic silver nanoparticles synthesized using Hagenia abyssinica (Brace) JF. Gmel. medicinal plant leaf extract, H C Ananda Murthy, Tegene Desalegn Zeleke, C R Ravikumar, M R Anil Kumar, **H P Nagaswarupa**, **Materials Research Express (IOP)**, 7, 055016, 1- 13, 2020. (Impact Factor:1.449) ISSN: 2053-1591
30. Study of green and chemical methods for synthesis of nano spinel MgFe<sub>2</sub>O<sub>4</sub> and its study on degradation of rose bengal dye, Krushitha Shetty, B.S. Prathibha, Dinesh Rangappa, K. S. Anantharaju, **H. P. Nagaswarupa**, and Vinay Gangaraju, **Asian Journal of Chemistry**, 32, 3, 501 – 507, 2020, (Impact Factor: 3.698) ISSN: 0970-7077
31. Probe sonication synthesis of ZnFe<sub>2</sub>O<sub>4</sub> NPs for the Photocatalytic degradation of Dyes and effect of treated wastewater on growth of plants, B.S. Surendra, T.R. Shashi Shekhar, M. Veerabhadraswamy, **H.P. Nagaswarupa**, S.C. Prashantha, G.C. Geethanjali, C. Likitha, **Chemical Physics Letters**, 745, 137286, 2020., (Impact Factor: 1.901) ISSN: 0009 – 2614.
32. Enhanced Photocatalytic and Electrochemical Performance of TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> nanocomposite: Its applications in dye decolorization and as supercapacitors, M. R. Anil Kumar, Buzuayehu Abebe, **H. P. Nagaswarupa**, H. C. Ananda Murthy, C. R. Ravikumar, Fedlu Kedir Sabir, **Scientific Reports, Nature research**, doi.org/10.1038/S41598-020-58110-7, 10: 1249, 2020, (Impact Factor: 4.525) ISSN: 2045 - 2322, UGC No:
33. Jatropha extract mediated synthesis of ZnFe<sub>2</sub>O<sub>4</sub> nanopowder: Excellent performance as an electrochemical sensor, UV photocatalyst and an antibacterial activity, B.S. Surendra, **H.P. Nagaswarupa**, M.U. Hemashree, Javeria Khanum, **Chemical Physics Letters**, 739, 136980, 2020. , (Impact Factor: 1.696) ISSN: 0009 - 2614, UGC No:
34. Evaluation of bi-functional applications of ZnO nanoparticles prepared by green and chemical methods M.R. Anil Kumar, C.R. Ravikumar, **H. P. Nagaswarupa**, B. Purshotam, Bedasa Abdisa Gonfa, H.C. Ananda Murthy, Fedlu Kedir Sabir, Samson Tadesse, **Journal of Environmental Chemical Engineering**, 7, 103468, 1- 8, 2019. (Impact Factor:1.198) ISSN: 2213-3437, UGC No:
35. Hydrothermally synthesized Bi<sub>2</sub>MoO<sub>6</sub>/Reduced Graphene Oxide composite as anodes for lithium-ion batteries, Manjunath Shetty , Murthy M , Mahesh Shastri, Sindhusree M., **Nagaswarupa H.P.**, Prasanna D. Shivaramu, Dinesh Rangappa,

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23. Photocatalytic study for fabricated Ag doped and undoped  $\text{MgFe}_2\text{O}_4$  nanoparticles, Krushitha Shetty, B.S. Prathibha, Dinesh Rangappa, K.S. Anantharaju, **H.P. Nagaswarupa**, H. Nagabhushana, S.C. Prashantha, **Materials Today: Proceedings**, 4, 2017, 11764–11772. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
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26. Resource Recovery and Material Characterization of Metals from Waste Li-ion Batteries by an Eco-Friendly Leaching Agent, M. Mylarappa, V. Venkata Lakshmi, K. R. Vishnu Mahesh, **H. P. Nagaswarupa**, S. C. Prashantha, K. N. Shravana Kumara, D. M. K. Siddeswara, N. Raghavendra, **Materials Today: Proceedings**, 4, 2017, 12215–12222. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
27. Inhibiting effect of Quaternary ammonium compound on the corrosion of mild steel in 1M Hydrochloric acid solution, its adsorption and kinetic characteristics, Prathibha B.S, **H.P. Nagaswarupa**, P. Kotteeswaran, V. Bheema Raju, **Materials Today: Proceedings**, 4, 12245–12254, 2017. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
28. Molten Salt Synthesis of Nanocrystalline  $\text{ZnFe}_2\text{O}_4$  and Its Photocatalytic Dye Degradation Studies, G.Preethi, Aashish S Ninan, Kiran Kumar, Ramdas Balan, **H.P. Nagaswarupa**, **Materials Today: Proceedings**, 4, 2017, 11816–11819. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021



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30. Synthesis of Sunlight Driven ZnO/CuO Nanocomposite: Characterization, Optical, Electrochemical and Photocatalytic Studies, L. Renuka, K.S. Anantharaju, Y.S. Vidya, **H.P. Nagaswarupa**, S.C. Prashantha, H. Nagabhushana, **Materials Today: Proceedings**, 4, 2017, 11782–11790. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
31. NUV excited luminescence studies of Tb<sup>3+</sup> in CaTiO<sub>3</sub> nanophosphor for wLEDs, M. Shivram, K.M. Girish, H.B. Premakumar, S.C. Prashantha, **H.P. Nagaswarupa**, K. Channakeshavalu, H. Nagabhushana, K.R. Vishnu Mahesh **Materials Today: Proceedings**, 4, 2017, 11720–11726. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
32. Synthesis and Characterization of Low Cost MgO Nanoparticle for the Assessment of the corrosion performance on Aluminium 6065, K. N. Shravana Kumara, **H. P. Nagaswarupa**, K. R. Vishnu Mahesh, M. Mylarappa, S. C. Prashantha, D. M. K. Siddeswara, N. Raghavendra, K.S. Anantharaju, **Materials Today: Proceedings**, 4, 2017, 12118–12124, 2017. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
33. Photocatalytic studies of TiO<sub>2</sub> nanomaterials prepared via facile wet chemical route, Sujatha F. Harlapura, B. N. Rashmi, **H.P. Nagaswarupa**, S.C. Prashantha, T.R. Shashishekar, M.R. Anil Kumar, **Materials Today: Proceedings**, 4, 2017, 11713–11719. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
34. Microwave assisted physico-chemical modification of Bentonite clay: characterization and Photocatalytic activity, B S. Surendra, M. Veerabhadraswamy, H G. Anil kumar, B K. Kendagannaswamy, **H P. Nagaswarupa**, S C. Prashanth **Materials Today: Proceedings**, 4, 2017, 11727–11736. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
35. Synthesis and Characterization of M<sup>+</sup>Co V<sub>2</sub>O<sub>5</sub> (M<sup>+</sup> = Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>) and Their Electrochemical Impedance Spectroscopic Studies, Y. N. Vaidyanath, K. G. Ashamanjari, M. Mylarappa, M. S. Bhargava Ramu, K. R. Vishnu Mahesh, S. C. Prashanth, **H. P. Nagaswarupa** and N. Raghavendra, **Materials Today: Proceedings**, 4, 2017, 12291–12299. **(Impact Factor: 0.71)** ISSN: 2214-7853, UGC No: 49021
36. Synthesis and Photometric Properties of SrAl<sub>2</sub>O<sub>4</sub>: Gd<sup>3+</sup> Nanophosphors via Solution Combustion Method, K. R. Ashwini, H. B. Premkumar, G. P. Darshan, H. Nagabhushana, S. C. Sharma, S. C. Prashantha, **H. P. Nagaswarupa**, **Materials**

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|---|--|
|   | <p><b>Today: Proceedings</b>, 4, 2017, 12168–12173. <b>(Impact Factor: 0.71)</b> ISSN: 2214-7853, UGC No: 49021</p> <p>37. Synthesis and Photoluminescence Studies of an Orange Red Color Emitting novel <math>\text{CaAl}_2\text{O}_4: \text{Sm}^{3+}</math> nanophosphor for LED Applications, B. S. Shashikala, H. B. Premkumar, G. P. Darshan, H. Nagabhushana, S. C. Sharma, S. C. Prashantha, <b>H. P. Nagaswarupa</b>, <b>Materials Today: Proceedings</b>, 4, 2017, 11820–11826. <b>(Impact Factor: 0.71)</b> ISSN: 2214-7853, UGC No: 49021</p> <p>38. Novel <math>\text{MgTiO}_3: \text{Eu}^{3+}</math> Nanophosphor Its Photometric Analysis for Multifunctional Applications, B.M. Thammanna, K. Viswanathan, <b>H.P. Nagaswarupa</b>, K.R. Vishnumahesh, <b>Materials Today: Proceedings</b>, 4, 2017, 12306–12313. <b>(Impact Factor: 0.71)</b> ISSN: 2214-7853, UGC No: 49021</p> <p>39. Diffuse Reflectance Properties And Band gap Analysis Of <math>\text{Mg}_2\text{SiO}_4: \text{RE}^{3+}</math> (RE= Eu, Tb, Sm, Dy) Nanophosphors For Light Emitting Device Application, Ramachandra Naik, S.C. Prashantha, H. Nagabhushana, <b>H.P. Nagaswarupa</b>, D. M. Jnaneshwara, P.B. Devaraja, G. P. Darshan, <b>AIP Conference Proceedings</b>, 1832, 2017, 050035-1–050035-3. ISSN: 1551-7616, UGC No: 48438</p> <p>40. A facile hydrothermal recovery of nano sealed <math>\text{MnO}_2</math> particle from waste batteries: An advanced material for electrochemical and environmental applications, M. Mylarappa, V. Venkata Lakshmi, K. R. Vishnu Mahesh, <b>H. P. Nagaswarupa</b>, N. Raghavendra, <b>IOP Conf. Series: Materials Science and Engineering</b>, 149, 2016, 012178, 1 – 9. <b>(Impact Factor: 0.4)</b> ISSN: 1757-8981, UGC No:</p> <p>41. M. Chandrasekhar, Judd Ofelt analysis and energy transfer mechanism in <math>\text{Pr}^{3+}</math> doped <math>\text{Mg}_2\text{SiO}_4</math> nanophosphors, Ramachandra Naik, S. C. Prashantha, H. Nagabhushana, S. C. Sharma, D. M. Jnaneshwara, K. S. Ananthraju, <b>H. P. Nagaswarupa</b>, H. B. Premkumar, <b>AIP Conference Proceedings</b>, 1731, 2016, 050034, 1 – 3. ISSN: 1551-7616, UGC No: 48438</p> |
| d) Invited Talks/ Seminars/Guest Lectures Given |  |
|   | <ul style="list-style-type: none"> <li>Delivered a talk on “<b>Life Tips for Youth: Success Mantras</b>” organized by, NSS Davanagere University during NIC 2022 on Sep 09th, 2022.</li> <li>Served as a Resource Person for conducting a Training Program on “<b>mLAC Preparedness Towards NAAC Peer Team Visit</b>” organized by Internal Quality Assurance Cell, Maharani Lakshmi Ammanni College for Women, Bangalore, held on July 23rd, 2022.</li> <li>Delivered a talk on “<b>Tips on How to become an Effective Engineer</b>” during the Induction Program to First Year Students organized by Department of Applied Science &amp; Humanities, Jhulelal Institute of Technology, Nagpur held during Jan 4th, 2022.</li> </ul>  |

- Served as a Resource Person for conducting a brainstorming session on **“Preparing SSR for the 4th Cycle of Accreditation under the Revised NAAC Framework”** organized by Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli, held on Dec 18th, 2021.
- Delivered a talk on Seven Criteria's of NAAC during the **“Workshop on NAAC Criterias”** organized by Internal Quality Assurance Cell, Davangere University, Davanagere, held during Feb 3rd – 10th, 2021.
- Delivered an Inaugural address on the topic **“Carriers in Chemistry”** in the Online Inauguration Function of Chemistry Association, PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamil Nadu for the year 2020 – 2021 on 16th September 2020.
- Delivered an Keynote address on the topic **“Successful Research Grant Applications to Various Funding Agency”** in the Online National Level Faculty Development Programme on “Writing Research Grants Applications and Intellectual Property Rights” Organized by Internal Quality Assurance Cell (IQAC), of Hajee Karutha Rowther Howdia College, Uthamapalayam, Theni District, Tamil Nadu on 24th June 2020.
- An invited talk on **“Flourishing Research Grant Applications”** in one day webinar “Recent Trends in Science and Technology” organized by Department of Chemistry, Sapthagiri College of Engineering, Bengaluru on 5th June, 2020.
- An invited talk on **“Online teaching tools for overcoming the challenges in teaching learning during covid-19 lockdown”** at 2nd International E-Conference on Environment Sustainability & Teaching Tools in COVID -19 Scenario (ICESTT-2020) organized by Jagadambha College of Engineering & Technology, Yavatmal, Maharashtra, India held during May 19th -20th, 2020.
- An invited talk on **“Nano Aluminate based Electrochemical Sensors for the Detection of Bio Molecules”** during the “International Web Conference on Science, Engineering and Technology” (IWCSET-2020) organized by Society for Technologically Advanced Materials of India (STAMI), India held during May 15th - 16th, 2020.
- An invited talk on **“Online Education: Trends & Tools - A roadmap to overcome the challenges”** at One Week Online Faculty Development Program on “Overcoming the Challenges in Adapting Online Technology in Teaching Learning” organized by Department of Applied Sciences & Humanities, Jhulelal Institute of Technology in association with Indian Society for Technical Education (ISTE), Society for Technologically Advanced Materials of India (STAMI), upGrad and Edusaksham (an e-learning Company) held during May 6-11, 2020.

- Resource Speaker in the one day planning meeting on “**Benchmarking Quality Parameters of Research Programs**” organized by Rashtriya Uhhatar Shiksha Abhiyan (RUSA), State Project Directorate, Government of Tamil Nadu, on 15th Oct 2019 at Gundy, Chennai.
- An invited talk on “**Synthesis, Characterization & Applications of Nano metal oxides**” at “International Conference on Science, Engineering and Technology” (ICSET – 2019) organized by, Society for Technologically Advanced Materials of India (STAMI) in collaboration with Samara University, Russia during May 30 – June 01, 2019 at Hotel Le Grand Plaza, Tashkent, Uzbekistan.
- An invited talk on “**Multi Functional Applications of Metal Oxide Nano Particles**” as invited speaker on the 3rd International Research Symposium Organized by Adama Science & Technology University (ASTU) from May 9- 11, 2019 at Adama, Ethiopia.
- An invited talk on “**Approach of Nano Technology in Chemistry**” was given during the National Conference on Recent Trends in Chemical Research organized by Immaculate College for Women, Sankarapuram, Tamil Nadu on 7th Feb 2019.
- A lecture on “**Building a Research Culture: Recommended Practices**” was given during the FDP organized by East West Institute of Technology, Bengaluru, Karnataka, on 17th Sep 2018.
- An invited talk on “**Low Cost Nano-Particles for Corrosion Resistance Studies of Al Alloys**” was given during the INCOSURF 2018 organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore on 11th Aug 2018.
- A lecture on “**Development of Novel Nanoparticles for Corrosion Resistance Studies**” was given at Department of PG studies and Research in Physics, Tumkur University, Tumkur on 25th Nov 2013.
- A seminar on “**Electro Chemistry and Cells**” was given at Parineetha Academy, Bangalore on 18th Aug 2012.
- A speech on “**Sir M. Visvesvaraya Sadhane Mattu Dooradhrushti**” was given in AIR Vividhbhrati, 102.9 FM, Bangalore, on 16th Aug 2012 from 9-00 to 9-30 AM.
- A lecture on “**Corrosion as an Electrochemical Phenomenon and its Prevention**” was given at BGSIT, BG Nagar, Mandya Dist. on 18th May 2012, in an refresher course for Pre University college Science lecturers, organized by Sri Adichunchanagiri Shikshana Trust and Vision Group on Science and Technology, Govt. of Karnataka.
- A lecture on “**Different Testing Methods for Corrosion Studies**” was given on 25th Jan 2012 during the Workshop on Industrial Corrosion and Corrosion Control Technology, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.

- A lecture on “**Environment and Role of Students in Protecting Environment**” was given on 14th Nov 2011 during the Workshop on Recent Trends in Waste Management, organized by The Zero Waste Society of India, Indian Institute of Science, Bangalore.
- A guest lecture on “**Corrosion, Causes and Control**” was given at CMR Institute of Science and Management Studies, Bangalore on 14th Aug 2009.
- A lecture on “**Institutional Hazardous Waste Management**” was given on 20th Jan 2009 during the Two Day Symposium on “Wealth from Waste” organized by The Zero Waste Society of India, Indian Institute of Science, Bangalore and Siddaganga Institute of Technology, Tumkur.
- A guest lecture on “**Corrosion Studies**” was given at Vivekananda Institute of Technology, Bangalore on 18th Aug 2006.

#### Books Edited/Book / Book Chapters/ Published:

##### Books Edited (6)

- Recent Trends in Electrochemical Science and Technology, Springer Singapore, ISBN: 978-981-16-7554-6, (2022)
- Current Trends in Materials Chemistry, United Agencies, ISBN: 978-93-85682-66-7, (2021)
- Materials Today: Proceedings, Elsevier, ISSN: 2214-7853, Volume 5, Issue 10, Part 3, Pages 22163-22734 (2018)
- Materials Today: Proceedings, Elsevier, ISSN: 2214-7853, Volume 5, Issue 10, Part 1, Pages 20785-21538 (2018)
- Materials Today: Proceedings, Elsevier, ISSN: 2214-7853, Volume 4, Issue 11, Part 3, Pages 11649-12332 (2017)
- Conference Proceedings of “International Conference on Advances in Science & Engineering” (ICASE-2017), United Publishers, ISBN: 978-93-85682-43-8, (2017)

##### Books (14)

- Development of Clay/Polymer Nanocomposites: Materials Characterization Techniques and its Applications, ISBN: 978-613-8-94968-8, Authors: N. Raghavendra, **H.P. Nagaswarupa**, T.R. Shashi Shekhar Publisher: Scholars' Press (March 2021).
- Nano Metal Oxides For Environmental Remediation, ISBN: 978-93-81195-90-1, Authors: N. Raghavendra, **H.P. Nagaswarupa** Publisher: United Publishers, (March 2019).

- Study on Sea water durability of Polymer nanocomposites, ISBN: 978-93-81195-91-8,  
Authors: N. Raghavendra, **H.P. Nagaswarupa**  
Publisher: United Publishers, (March 2019).
- Study on Al 6061- Cobalt Metal Matrix Composites, ISBN: 978-93-81195-92-5,  
Authors : M.R. Anil Kumar, **H.P. Nagaswarupa**, N. Raghavendra,  
Publisher: United Publishers, (March 2019).
- Microwave Modification of Bentonite Clay and Solvent Free Synthesis, ISBN: 978-620-2-31081-9,  
Authors :B S. Surendra, M. Veerabhadraswamy, **H P. Nagaswarupa**,  
Publisher: Scholars' Press (June 2018).
- Lignocellulosic deoiled seed cake biomass conversion into Chemical Intermediate, ISBN: 978-620-2-30534-1,  
Authors :B S. Surendra, M. Veerabhadraswamy, **H P. Nagaswarupa**,  
Publisher: Scholars' Press (March 2018).
- Role of additives:  $\beta$ -Ni(OH)<sub>2</sub> in Battery and Supercapacitors, ISBN: 978-620-2-07746-0,  
Authors : C.R. Ravikumar , M.R. Anil Kumar, **H.P. Nagaswarupa**,  
Publisher: Lambert Academic Publishing (December 2017).
- Bio Engineered Nano MgO: Applied in Water Treatment & Display Devices, ISBN-10: 3639663489, ISBN-13: 978-3639663488  
Authors : M.R. Anil Kumar, **H.P. Nagaswarupa**, S.C. Prashantha,  
Publisher: Scholars' Press (October 16, 2017).
- Nano ZnO: Green Synthesis & its Bi – functional Applications, ISBN: 978-620-2-05294-8,  
Authors : M.R. Anil Kumar, **H.P. Nagaswarupa**, S.C. Prashantha,  
Publisher: Lambert Academic Publishing (September 2017).
- Nanoclay based Polymer Composites: Mechanical Performance, ISBN: 978-93-81195-89-5,  
Authors: N. Raghavendra, **H.P. Nagaswarupa**  
Publisher: United Publishers, (August 2017).
- Recapture of metals from Grinding Waste, ISBN: 978-93-81195-88-8,  
Author: **H.P. Nagaswarupa**  
Publisher: United Publishers, (August 2017).



- Chromium Removal Using Activated Carbon, ISBN-13: 978-3659677342 ISBN-10: 3659677345,  
Authors : Veena Devi B, **Nagaswarupa H.P**  
Publisher: Lambert Academic Publishing (January 27, 2015).
- $\text{Mg}_2\text{SiO}_4\text{:Re}^{3+}$  for WLEDs - Green combustion route using plant latex, ISBN-13: 978-3-659-57130-5, ISBN-10: 365957130X,  
Authors : S.C. Prashantha, **H.P. Nagaswarupa**, H. Nagabhushana  
Publisher: Lambert Academic Publishing (August 22, 2014).
- Al 6061/ Zircon Composites: Fundamentals & Its Corrosion Studies, ISBN-13: 978-3639719864, ISBN-10: 3639719867,  
Author: **H.P. Nagaswarupa**  
Publisher: Scholars' Press (June 18, 2014).

#### Book Chapters (14)

- Recent Developments in Green Electrochemical Sensors: Design, Performance, and Applications, **Nano-Based Electrochemical Sensor Studies for Detections of Heavy Metal and Glucose Biomolecule and Its Multiple Applications**, American Chemical Society Publications, ACS Symposium Series Vol. 1437, ISBN13: 9780841297227, eISBN: 9780841297210, DOI: 10.1021/bk-2023-1437.ch007, February 16, (2023).
- Carbon Nanomaterials-Based Sensors: Emerging Research Trends in Devices and Applications, **Novel trends for synthesis of carbon nanomaterial-based sensors**, Elsevier, ISBN: 978-0-323-91174-0, 29-42, (2022).
- Voltammetry for Sensing Applications, **Electrochemical, Sensing and Environmental Assessments of  $\text{CuFe}_2\text{O}_4/\text{ZnO}$  Nanocomposites Synthesised Via Azadirachta Indica Plant Extract**, Bentham Science Publishers, ISBN: 978-981-5039-72-6, (2022).
- Functionalized Nanomaterial-Based Electrochemical Sensors Principles, Fabrication Methods, and Applications, **Functionalized metal and metal oxide nanomaterial-based electrochemical sensors**, Woodhead Publishing: An imprint of Elsevier, ISBN: 978-0-12-823788-5, (2022).
- Current Trends in Materials Chemistry, **Synthesis and Characterization of Bismuth Zinc Niobate ( $\text{BZN-Bi}_{1.5}\text{ZnNb}_{1.5}\text{O}_{10}$ ) Nanomaterials**, United Agencies, ISBN: 978-93-85682-66-7, (2021).
- Current Trends in Materials Chemistry, **Sea Water Durability of Vinyl Ester Resin/Clay Based Nano Composites and their Mechanical Properties**, United Agencies, ISBN: 978-93-85682-66-7, (2021).

- Current Trends in Materials Chemistry, **Development of ZnFe<sub>2</sub>O<sub>4</sub> NPs via Sol gel Method for their Sensor, Electrochemical and Photocatalytic Applications**, United Agencies, ISBN: 978-93-85682-66-7, (2021).
- Current Trends in Materials Chemistry, **Synthesis, characterization and Electrochemical Performance of  $\beta$ -Ni(OH)<sub>2</sub> embedded with MgO and ZnO nanoparticles: It's applications in energy storage devices**, United Agencies, ISBN: 978-93-85682-66-7, (2021).
- Current Trends in Materials Chemistry, **Spectroscopic and electrochemical efficiency with variable Additive of Zinc and pH in alkaline secondary batteries using  $\beta$ -Nickel Hydroxide**, United Agencies, ISBN: 978-93-85682-66-7, (2021).
- Annual Technical Volume of Metallurgical & Materials Engineering Division, Utilization of Waste generated from Metallurgical Plant, **Recovery of Ferrous Metal from Grinding Waste**, Volume 4, 2020, Publisher: The Institution of Engineers (India). ISBN: 978-81-950662-3-0
- Handbook of Polymer and Ceramic Nanotechnology, **Development of Thermoplastic Polymer Blended Epoxy Nanocomposites Reinforced with Halloysite Nanoclay**, [https://doi.org/10.1007/978-3-030-10614-0\\_61-1](https://doi.org/10.1007/978-3-030-10614-0_61-1), Springer Nature Switzerland AG, (2020).
- Current Advances in Nanoengineered Materials, **Transition Metal ions Doped YAP as a Potential Dosimeter: A Review**, ISBN: 978-93-85682-15-5, Publisher: United Publishers, (2016). 25 - 48
- Current Advances in Nanoengineered Materials, **Multidisciplinary applications of green and chemical induced synthesis of Sr<sub>2</sub>CeO<sub>4</sub> Nano materials**, ISBN: 978-93-85682-15-5, Publisher: United Publishers, (2016). 71 - 102
- Current Advances in Nanoengineered Materials, **Impact of Eu<sup>3+</sup> obvious luminescence in diverse host cross sections**, ISBN: 978-93-85682-15-5, Publisher: United Publishers, (2016). 189 - 207

## Patents (15)

### Australian – 4

- Portable Instrument for Heavy Metal Detection in Water, Patent number: 2021107393, Granted Date: 8th Dec 2021
- Versatile Split Tool Used for Preparation of Mechanical and Tribological Test Samples in Powder Metallurgy: Patent No. 2021101717, Granted Date: 26th May 2021

- Single Fuel Filter Media to Meet Particle and Water Separation Efficiency, Patent No. 2021101721, Granted Date: 5th May 2021
- A Novel Approach to Login Smart Phones with Sequence of Multiple Finger Prints for Robust Authentication: Patent No. 2021101758, Granted Date: 6th April 2021

### **Indian - 11**

- Manual operated low cost portable V- Shaped powder blender, Patent No.398365, Application No. 201841014566, Date of Filing : 17/04/2018, Date of Publication:18/10/2019, Date of Grant: 01/06/2022.
- Portable Potentiostat for Detection of Heavy Metals in Water, Application No. 202141046395 A, Publication Date :05/11/2021
- Low Cost Sunlight Harvesting System for Rural Indoor Lighting, Application No. 202141014591 A, Publication Date :11/06/2021
- Integrated High Pressure Water Jet Cleaning apparatus in automobile, Application No. 202141014505 A, Publication Date :11/06/2021
- A Process for Synthesis of Silver Nanostructures, Application No. 202141015798 A, Publication Date :09/04/2021
- Low Cost Automatic Water in Fuel Sensor for Water Draining System in Diesel Fuel Filters, Application No. 202141014587 A, Publication Date :09/04/2021
- Twin Suction Tube in Diesel Fuel Filters, Application No. 202141014555 A, Publication Date :09/04/2021
- Intelligent Traffic Controller, Application No. 201941038152 A, Publication Date :26/03/2021
- Single Fuel Filter Media to Meet Particle and Water Separation Efficiency, Application No. 202141008380 A, Publication Date :05/03/2021
- Versatile Split Tool Used for Preparation of Mechanical and Tribological Test Samples in Powder Metallurgy: Application No. 201841009838 A, Publication Date: 20/09/2019
- Fabric Torsion Machine: Application No.201641029424 A, Publication Date: 17/03/2017

| Research Guidance Details (PhD): |                     |  |                           |  |
|----------------------------------|---------------------|--|---------------------------|--|
| Sl.No                            | Name of the Scholar | University   | Registration month & Year | Research Area  |
| 1.                               | H.V. Harini         | Davangere University<br>* <b>Course Work Completed</b>               | FEB – 2022                | Green Synthesis of Nano Hybrid Aluminates and their Applications.  |
| 2.                               | Shilpa V Allipur    | Davangere University<br>* <b>Course Work Completed</b>               | FEB – 2022                | Green Synthesis, of Alkaline Earth Metal Doped Metal Oxide Nanoparticles: Photocatalytic, Electrochemical Applications and their Antimicrobial Activities. |
| 3.                               | K.N. Shravana Kumar | Bharathiar University. T.N.<br>* <b>Awarded on 23rd Dec 2022</b>     | JUL - 2013                | Synthesis & Characterization of Nanomaterials for Different Industrial Applications  |
| 4.                               | G. Preethi          | Bharathiar University. T.N.<br>* <b>Awarded on 11th Mar 2022</b>     | DEC - 2013                | Studies on Photocatalytic Dye Degradation Using Some Spinal Structured Oxides.   |
| 5.                               | M.A. Shilpa Amulya  | VTU, Belgaum, Karnataka,<br>* <b>Awarded on 02nd Feb 2022</b>        | FEB – 2016                | Synthesis and Characterization of Ferrite Nanomaterials for Catalytic and Electrochemical Studies  |
| 6.                               | P. Avinesh          | Bharathiar University. T.N.<br>* <b>Awarded on 03th Mar 2020</b>     | JUL - 2013                | Regioselective Synthesis of Decorated Imidazo Pyridines and Importance of These Analogues in Medicinal Chemistry   |
| 7.                               | K.K. Abdul Khader   | Bharathidasan University. T.N.,<br>* <b>Awarded on 25th Jan 2018</b> | JAN - 2013                | A Study on Palladium Catalysed C-C and C-N Coupling Reactions of Nitrogen Containing Heterocyclic Compounds  |
| 8.                               | M.R. Anil Kumar     | VTU, Belgaum, Karnataka,<br>* <b>Awarded on 6th March 2017</b>       | FEB - 2012                | Green Synthesis, Characterization of Metal oxide Nanoparticles and their Applications in Water Treatment   |

## Research Guidance Details (MPhil):

| Sl.No | Name of the Scholar       | University                                 | Registration month & Year | Research Area   |
|-------|---------------------------|--|---------------------------|---|
| 1.    | Madhu. H.                 | Davangere University, Karnataka            | Jan - 2020                | Development of Nanometal ferrites through Green Approach for Electrochemical & Biological Applications    |
| 2.    | N.S. Sreenivasan          | Dr. C.V. Raman University, Bilaspur (C.G.) | JUL - 2014                | Green synthesis & Characterisation of Magnesium Orthosilicate for Display Applications                    |
| 3.    | Biradar Sathish Mohan Rao | Dr. C.V. Raman University, Bilaspur (C.G.) | JUL - 2014                | Estimation of Vitamin D3(Cholecalciferol) by HPLC Method  |
| 4.    | Chetan Ramdas Patel       | Dr. C.V. Raman University, Bilaspur (C.G.) | DEC - 2014                | Microwave assisted synthesis of amino heterocycles  |
| 5.    | B. Savitha                | Dr. C.V. Raman University, Bilaspur (C.G.) | DEC - 2014                | Microwave assisted Suzuki cross coupling reactions of 3-substituted 2-chloro imidazo[4,5-b]pyridines      |
| 6.    | Y.S. Uday                 | Dr. C.V. Raman University, Bilaspur (C.G.) | DEC - 2014                | Green Synthesis, Characterisation of nanoparticles and their photoluminescence and photocatalytic studies |

## Conference/ Workshops/Trainings attended/organized:

## Paper Presentations in Conferences / Symposium (International - 113)

- Presented a paper titled, **"Sr-doped LaCoO<sub>3</sub> perovskite as a promising electrode material for supercapacitor application"** in the International E - Conference on Recent Advances in Material Science and Nanotechnology (RAMAN-2021) held from 7th to 9th of Feb 2021.
- Presented a paper titled, **"Detection of Heavy Metals in Waste Water by using Chemical, Bio -Sensors and Their Electrochemical Applications"** in the three day Virtual International Conference on Advances in Mechanical Engineering Sciences & Management (ICAMESM-2020) held from 7th to 9th of December 2020.
- Presented a paper titled **"Synthesis, Characterizations and Electrochemical Performance Analysis of Cr<sup>3+</sup> Doped Mg<sub>2</sub>SiO<sub>4</sub> Nanoparticles"** was presented in the

“International Conference on Advances in Material Science and Applications (ICASMA-2020)” organized by Department of Physics, M.S. Ramaiah Institute of Technology, Bangalore on 3rd & 4th Sep 2020.

- Presented a paper titled **“Electrochemical Performance of Cobalt-Doped LaMnO<sub>3</sub> as an Electrode Material for Supercapacitor”** was presented in the “International Conference on Advances in Material Science and Applications (ICASMA-2020)” organized by Department of Physics, M.S. Ramaiah Institute of Technology, Bangalore on 3rd & 4th Sep 2020.
- Presented a paper titled **“A study on electrochemical and photocatalytic properties of sonochemically synthesized CuFe<sub>2</sub>O<sub>4</sub>”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Decolorization Study of mixture of Azo dyes using Aluminium oxide nanoparticles synthesised by Probe Sonication method”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Structure, Morphology and Electrochemical Properties of SrTiO<sub>3</sub> perovskite for supercapacitor application”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Optical and Electrochemical Applications of Li-doped NiO Nanostructures Synthesized via Facile Microwave Technique”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Green Synthesis of ZrO<sub>2</sub> Nanoparticles and its applications in Photoluminescence, Photo catalytic studies.”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Synthesis and Adsorption-degradation Activity of Titanium Iron Oxide (TIOs) Nanomaterials.”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda



Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.

- Presented a paper titled **“Synthesis, structural and waste water treatment of cupric oxide and composite with carbon powder derived from Agave plant using probe sonication method”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Evaluation of Microstructure and Mechanical Properties of Titanium-Copper Reinforced Alumina Composites”** was presented in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17th & 18th Jan 2020.
- Presented a paper titled **“Designing of Portable Device for the Determination of Heavy metals in Water”** was presented at “3rd Information & Networking Event: EU-India Water Call” organized by DST, DBT and delegation of European Union of India, & Centre for Environment, IIT Guwahati, Assam on 5th January, 2018.
- Presented a paper titled **“Novel synthesis of MgTiO<sub>3</sub>:Tb<sup>3+</sup> Structural behavior, Band gap, PCA, Supercapacitor and Photoluminescence analysis for multifunctional applications”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Synthesis, characterization and luminescence studies of CaTiO<sub>3</sub>:Eu<sup>3+</sup> nanophosphor with SiO<sub>2</sub> core shell”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Judd-Ofelt analysis and radiative properties of the Nd<sup>3+</sup>centres in LaAlO<sub>3</sub>-A green light emitting nanophosphor”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“A Comparative study on NiFe<sub>2</sub>O<sub>4</sub> synthesized by different routes: Structure, Electrochemical, Photoluminescence and its Photocatalytic studies”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8

- Presented a paper titled **“A Comparative study on NiFe<sub>2</sub>O<sub>4</sub> synthesized by different routes: Structure, Electrochemical, Photoluminescence and its Photocatalytic studies”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Preparation, Characterization of MgFe<sub>2</sub>O<sub>4</sub>/ZnO nanocomposite to investigate their multifunctional applications”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Facile low temperature engineered MgAl<sub>2</sub>O<sub>4</sub> and its characterizations for dual applications”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Photocatalytic studies of MgO and ZnO nano-composites; synthesized by green mediated route”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“1-Benzyl-3-phenyl-1H-benzo[d]-imidazole-3-ium-Palladium catalyst system for the effective synthesis of decorated imidazo[4,5-b]pyridines”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Synthesis and Electrochemical Characterization of nano CuO and TiO<sub>2</sub> modified carbon paste electrode for Supercapacitors Application”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Facile Synthesis of Fully decorated Imidazo[4,5-b] and Imidazo[4,5p-c] Pyridines in Aqueous Medium Employing a C-H Activation Protocol Under Microwave Assisted Conditions”** was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Synthesis of substituted pyridobenzoxazepinones and dibenzooxazepinones using octacarbonyldicobalt as an effective CO source for**

**aminocarbonylation**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8

- Presented a paper titled **“Structural, photocatalytic studies of Zn<sub>2</sub>TiO<sub>4</sub>:Sm<sup>3+</sup>+nanophosphor**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Electrochemical Properties of Co<sup>2+</sup> doped GdAlO<sub>3</sub> nanophosphors**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Mg<sub>2</sub>SiO<sub>4</sub>:Cr<sup>3+</sup> Nanophosphors: Structural Characterization and Electrochemical Properties**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Single step synthesis of Nanocrystalline Cubic - Cd<sub>2</sub>SnO<sub>4</sub> and Its Photocatalytic Dye Degradation Studies**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Simultaneous Removal of Hg (II), Pb (II) and Ionic Dyes from Aqueous Solution Using Battery Waste as Raw Materials**” was presented at International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Effective reduction of Co<sup>2+</sup> and Ni<sup>2+</sup> from aqueous solution using nanostructured ZnO particle synthesized by solution Combustion**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8
- Presented a paper titled **“Effective reduction of Co<sup>2+</sup> and Ni<sup>2+</sup> from aqueous solution using nanostructured ZnO particle synthesized by solution Combustion**” was presented at “International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19th – 22nd January, 2017. ISBN: 978-93-85682-43-8

- Presented a paper titled **“Synthesis of ZnFe<sub>2</sub>O<sub>4</sub> nanoparticles by combustion and sol-gel routes and their structural, photoluminescence and Photocatalytic performance”** was presented at “International Conference on Smart Engineering Materials” (ICSEM - 2016) will be held from Oct. 20-22, 2016, in RV College of Engineering, Bangalore.
- Presented a paper titled **“A New Assisted Green Synthesis of MgO Nanoparticles Using *Murraya Koenigii* Leaf Extract”** was presented at “International Conference on Nano science and Nanotechnology, (ICNAN-2016) organized by VIT, Vellore, Coimbatore, India on 19th – 21st October, 2016.
- Presented a paper titled **“Effective Elimination of Acid Red 88 from aqueous solution and Electrochemical Studies of rGO/AgO and rGO/CNT's/AgO based Nanocomposite”** was presented at “International Conference on Nano science and Nanotechnology, (ICNAN-2016) organized by VIT, Vellore, Coimbatore, India on 19th – 21st October, 2016.
- Presented a paper titled **“Effective Elimination of Acid Red 88 from aqueous solution and Electrochemical Studies of rGO/AgO and rGO/CNT's/AgO based Nanocomposite”** was presented at “International Conference on Nano science and Nanotechnology, (ICNAN-2016) organized by VIT, Vellore, Coimbatore, India on 19th – 21st October, 2016.
- Presented a paper titled **“Rare earth based novel MgAl<sub>2</sub>O<sub>4</sub> nanophosphor and its multifunctional applications for PCA, Super Capacitor & WLEDs”** was presented at “International Conference on Science and Technology for Sustainable Development” (ICSTSD – 2016) organized by Society for Technologically Advanced Materials of India (STAMI) in collaboration with Institute of Advance Technology (ITMA), Universiti Putra Malaysia (UPM); Malaysia, Malaysian Association of Solid State Sciences and Technology (MASS); and University of Peradeniya, Kandy, Sri Lanka at Hotel Istana, Kuala Lumpur, Malaysia on 24th – 26th May 2016.
- Presented a paper titled **“LaAlO<sub>3</sub>:Sm<sup>3+</sup> Nanophosphors: Photoluminescence and photometric analysis for solid state display and forensic applications”** was presented at “International Conference on Science and Technology for Sustainable Development” (ICSTSD – 2016) organized by Society for Technologically Advanced Materials of India (STAMI) in collaboration with Institute of Advance Technology (ITMA), Universiti Putra Malaysia (UPM); Malaysia, Malaysian Association of Solid State Sciences and Technology (MASS); and University of Peradeniya, Kandy, Sri Lanka at Hotel Istana, Kuala Lumpur, Malaysia on 24th – 26th May 2016.
- Presented a paper titled **“Novel synthesis of MgTiO<sub>3</sub>: Structural behavior, band gap, PCA, super capacitor and photoluminescence analysis for multifunctional applications”** was presented at “International Conference on Science and Technology for Sustainable Development” (ICSTSD – 2016) organized by Society for Technologically

Advanced Materials of India (STAMI) in collaboration with Institute of Advance Technology (ITMA), Universiti Putra Malaysia (UPM); Malaysia, Malaysian Association of Solid State Sciences and Technology (MASS); and University of Peradeniya, Kandy, Sri Lanka at Hotel Istana, Kuala Lumpur, Malaysia on 24th – 26th May 2016.

- Paper titled **“Photocatalytic and Photoluminescence studies of ZnO nanomaterials by Banana peel powder”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Synthesis and photometric properties of SrAl<sub>2</sub>O<sub>4</sub>: Gd<sup>3+</sup> nanophosphors via solution combustion method”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Synthesis and Photoluminescence studies of an orange red color emitting novel CaAl<sub>2</sub>O<sub>4</sub>: Sm<sup>3+</sup> nanophosphor for LED applications”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“One Step Synthesis of Aromatic and Heteroaromatic Amides from Haloarenes via a Stable Sulphonamide Intermediate Using Hexacarbonylmolybdenum in Microwave Conditions”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Molten Salt Synthesis of Nanocrystalline ZnFe<sub>2</sub>O<sub>4</sub> and Its Photocatalytic Dye Degradation Studies”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“A comparative study on CuFe<sub>2</sub>O<sub>4</sub>, ZnFe<sub>2</sub>O<sub>4</sub> and NiFe<sub>2</sub>O<sub>4</sub> : Morphology, Impedance and Photocatalytic Studies”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association



with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.

- Paper titled **“Microwave Assisted Synthesis of Phenoxazines and Related aza Derivatives by Intramolecular N-Arylations”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“One Step Synthesis of Ternary Composite of GNS/CNT/MnO<sub>2</sub> for the Application of Super capacitors & Photocatalytic Degradation of Azo Dyes”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Synthesis and Characterization of Low Cost Nanomaterials for Corrosion Studies on Aluminium 6065”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Resource Recovery and Material Characterization of Metals from Waste Li-ion Batteries by an Eco-Friendly Leaching Agent”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Synthesis of Visible Light Driven ZnO/CuO Composite: Characterization, Photoluminescence, Electrochemical and Photocatalytic Performance”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Facile Synthesis of Recyclable ZrO<sub>2</sub>/ZnFe<sub>2</sub>O<sub>4</sub>: Correlation between Electrochemical and Photoluminescence Studies with Visible Light Driven Photocatalytic Activity”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st



– 23rd April, 2016.

- Paper titled **“Optical and Photocatalytic Properties of Cu- Substituted Mn Ferrite Catalysts”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Role of MgFe<sub>2</sub>O<sub>4</sub> and Ag doped MgFe<sub>2</sub>O<sub>4</sub> Nanoparticles For Enhanced Photocatalytic Performance: Synthesis And Characterization”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Structural, Optical and Photocatalytic Properties of MgO/CuO Nanocomposites Prepared By a Solution Combustion Method”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“CdSiO<sub>3</sub>: Cu<sup>2+</sup> nanophosphor: Luminescence and Dielectric studies”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Solution Combustion Synthesis of ZrO<sub>2</sub>-ZnO Nanocomposites and Their Role in the Photocatalytic Degradation of Acid green G”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Sol Gel Based Water Repellent Nano Coating For Textiles”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Sol-Gel Coatings on Multilayer Printed Circuit Boards”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association

with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.

- Paper titled **“Facile green combustion synthesis of MgO nanoparticles using Calotropis-g and E. tirucalli plant extracts and their photoluminescence studies”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Structural, optical and luminescent properties of MgO: Mn<sup>2+</sup> Nanophosphors prepared by auto ignited combustion route”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Inhibiting effect of Quaternary ammonium compound on the corrosion of mild steel in 1M Hydrochloric acid solution, its adsorption and kinetic characteristics”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“UV - Sun light Photocatalytic and photoluminescence Studies of Rare-Earth-Doped (Sm<sup>3+</sup>) MgO nanopowders by Aloe Vera gel”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Synthesis and Characterization of Co and N Doped TiO<sub>2</sub> for Enhanced Photoluminescence property”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Microwave Assisted Physico-Chemical Modification Of Bentonite Clay: Characterization And Photocatalytic Activity”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.

- Paper titled **“NUV Excited Luminescence of Tb<sup>3+</sup> in CaTiO<sub>3</sub> Nanophosphor for Display Applications”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Titanium Oxide: A Promising Nanomaterial for Photocatalysis”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Auto Ignition Route and Near UV Excited Photoluminescence of Mg<sub>2</sub>SiO<sub>4</sub>: Tb<sup>3+</sup>, Li<sup>3+</sup> Nanophosphor”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Synthesis, Diffuse Reflectance and Photoluminescence Studies of Nanocrystalline Eu<sup>3+</sup>+Doped GdAlO<sub>3</sub> via Combustion Method”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Novel MgTiO<sub>3</sub>:Eu<sup>3+</sup> Nanophosphor Its Photometric Analysis for Multifunctional Applications”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Facile Synthesis of Fully decorated Imidazo[4,5-b] and Imidazo[4,5p-c] Pyridines in Aqueous Medium Employing a C-H Activation Protocol Under Microwave Assisted Conditions”** was presented in the “International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.
- Paper titled **“Electrochemical Studies of Nano Metal Oxide reinforced Nickel Hydroxide Materials for Energy Storage Applications”** was presented in the

“International Conference on Nanotechnology” (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21st – 23rd April, 2016.

- Paper titled “**Synthesis of Zr doped zinc oxide and their enhanced Photocatalytic activity**” was presented in the “International Conference on Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, India, on 17th December 2015.
- Paper titled “**Electrochemical properties of MgO and ZnO nanoparticle doped  $\beta$ -Ni(OH)<sub>2</sub>; synthesized by co-precipitation route**” was presented in the “International Conference on Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, India, on 17th December 2015.
- Paper titled “**Extraction of lithium and cobalt from used up lithium ion battery by hydrometallurgy process**” was presented in the “International Conference on Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, India, on 17th December 2015.
- Paper titled “**Microwave assisted synthesis of HMF as a chemical intermediate from deoiled seed cake using acid modified clay**” was presented in the “International Conference on Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, India, on 17th December 2015.
- Paper titled “**Oxalyldihydrazide assisted facile combustion synthesized nano MgAl<sub>2</sub>O<sub>4</sub> compound for super capacitor applications**” was presented in the “International Conference on Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, India, on 17th December 2015.
- Paper titled “**Inhibiting effect of 1-Propanaminium N,N,N-tributyl iodide on corrosion of mild steel in 1M hydrochloric acid solution, its adsorption and kinetic characteristics**” was presented in the “International Conference on Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, India, on 17th December 2015.
- Paper titled “**Synthesis and Characterization of NiFe<sub>2</sub>O<sub>4</sub>:Mg<sup>2+</sup> and its applications**” was presented in the “International Conference on Ceramic and Advanced Materials for Energy and Environment” (CAMEE – 2015) organized by Materials Research Center,

IISc, Bangalore and Indian Ceramic Society Karnataka Chapter at Christ University, Bangalore on 14th – 17th December 2015.

- Paper titled **“Synthesis and Characterization of ZnFe<sub>2</sub>O<sub>4</sub>- reduced graphene oxide nanocomposite and its applications”** was presented in the “International Conference on Ceramic and Advanced Materials for Energy and Environment” (CAMEE – 2015) organized by Materials Research Center, IISc, Bangalore and Indian Ceramic Society Karnataka Chapter at Christ University, Bangalore on 14th – 17th December 2015.
- Paper titled **“MgFe<sub>2</sub>O<sub>4</sub>-rGO nanocomposites: Bio mediated synthesis and its multifunctional behaviour”** was presented in the “International Conference on Ceramic and Advanced Materials for Energy and Environment” (CAMEE – 2015) organized by Materials Research Center, IISc, Bangalore and Indian Ceramic Society Karnataka Chapter at Christ University, Bangalore on 14th – 17th December 2015.
- Paper titled **“Synthesis and characterization of nano ZnO and MgO powder by low temperature solution combustion method: Studies concerning on electrochemical and photo catalytic behavior”** was presented in the “International Conference on Nanomaterials & Nanotechnology” (NANO – 15) organized by Center for Nano Science & Technology, K.S. Rangaswamy College of Technology, Tiruchengode, Namakkal, Tamilnadu, India in association with World Class University (WCU), GIST, South Korea on 7th – 10th December 2015. ISBN: 978-93-85436-76-5
- Paper titled **“YAlO:Sm<sup>3+</sup> Nanophosphor: Photoluminescence and Judd– ofelt analysis”** was presented in the “International Conference on Nanomaterials & Nanotechnology” (NANO – 15) organized by Center for Nano Science & Technology, K.S. Rangaswamy College of Technology, Tiruchengode, Namakkal, Tamilnadu, India in association with World Class University (WCU), GIST, South Korea on 7th – 10th December 2015. ISBN: 978-93-85436-74-1
- Paper titled **“Combustion synthesis and photoluminescence properties of a novel green emitting Tb<sup>3+</sup> doped YAlO Nanophosphor”** was presented in the “International Conference on Nanomaterials & Nanotechnology” (NANO – 15) organized by Center for Nano Science & Technology, K.S. Rangaswamy College of Technology, Tiruchengode, Namakkal, Tamilnadu, India in association with World Class University (WCU), GIST, South Korea on 7th – 10th December 2015. ISBN: 978-93-85436-74-1
- Paper titled **“Electro chemical and photo catalytic enactment of recovered MnO<sub>2</sub> from consumed dry cell batteries”** was presented in the “International Conference on Nanomaterials & Nanotechnology” (NANO – 15) organized by Center for Nano Science & Technology, K.S. Rangaswamy College of Technology, Tiruchengode, Namakkal, Tamilnadu, India in association with World Class University (WCU), GIST, South Korea on 7th – 10th December 2015. ISBN: 978-93-85436-91-8
- Paper titled **“ZnO/Mn<sub>2</sub>O<sub>3</sub> decorated graphene nanosheets: An advanced material**



**for the electrochemical performance and photo catalytic degradation of organic dyes**” was presented in the “International Conference on Nanomaterials & Nanotechnology” (NANO – 15) organized by Center for Nano Science & Technology, K.S. Rangaswamy College of Technology, Tiruchengode, Namakkal, Tamilnadu, India in association with World Class University (WCU), GIST, South Korea on 7th – 10th December 2015. ISBN: 978-93-85436-93-2

- Paper titled **“Aloe Vera gel mediated ZnO:Sm<sup>3+</sup> nanoparticles: Structural, Photocatalytic and Photoluminescence studies ”** was presented at “Second International Conference on Nanostructured Materials and Nanocomposites” (ICNM - 2014) organized by International and Inter University Center for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam, India on 19th – 21st December 2014.
- Paper titled **“Mg<sub>2</sub>SiO<sub>4</sub>:Pr<sup>3+</sup> Nanophosphor: Auto Ignition Route, Characterization and Photoluminescence properties for WLEDs ”** was presented at “Second International Conference on Nanostructured Materials and Nanocomposites” (ICNM - 2014) organized by International and Inter University Center for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam, India on 19th – 21st December 2014.
- Paper titled **“Red emissive MgO:Sm<sup>3+</sup> nanophosphor prepared via facile combustion route for display applications”** was presented at “Second International Conference on Nanostructured Materials and Nanocomposites” (ICNM -2014) organized by International and Inter University Center for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam, India on 19th – 21st December 2014.
- Paper titled **“ Photoluminescence studies of Sm<sup>3+</sup> doped YAlO<sub>3</sub>:White light emitting nanophosphor”** was presented at “Second International Conference on Nanostructured Materials and Nanocomposites” (ICNM -2014) organized by International and Inter University Center for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam, India on 19th – 21st December 2014.
- Paper titled **“Facile green route for the synthesis of Iron-doped MgO nanoparticles by Phyllanthus Acidus: Structural, Photoluminescence and Photocatalytic activity”** was presented at “The 8th International Conference on Materials Science and Technology” organized by National Metal and Materials Technology Center, Thailand at Bangkok, Thailand on 15th – 16th December 2014.
- Paper titled **“ Organomodification of clay and its influence on the thermal, mechanical and fine behavior of clay/fire additives/vinylester composites”** was presented at “The 8th International Conference on Materials Science and Technology” organized by National Metal and Materials Technology Center, Thailand at Bangkok, Thailand on 15th – 16th December 2014.



- Paper titled **“Green synthesis, structural and antimicrobial studies of Magnesium oxide nanopowder using BT latex”** was presented at “International Conference on Chemical and Environmental Research” (ICCER -2014) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, India on 11th – 12th March 2014. ISBN No: 978-93-81521-36-6
- Paper titled **“Effect of nano metal oxides (MgO) on the properties of glass fiber reinforced epoxy nano-composites”** was presented at “International Conference on Advancements in Polymeric Materials” (APM -2014) organized by Laboratory for Advanced Research in Polymeric Materials (LARPM), Central Institute of Plastics Engineering and Technology (CIPET), Bhubaneswar, India on 14th – 16th Feb 2014.
- Paper titled **“Mg<sub>2</sub>SiO<sub>4</sub>:Tb<sup>3+</sup> green nanophosphor: low temperature synthesis and photoluminescence properties”** was presented at “International Conference in Asia” (IUMRS – ICA 2013) organized by the Materials Research Society of India in association with IISC and JNCASR, Bangalore on 16th – 20th Dec 2013 at Indian Institute of Science, Bangalore.
- Paper titled **“The inhibition of mild steel corrosion in 0.5M H<sub>2</sub>SO<sub>4</sub> solution by N,N,N-Tributyl-1-butanaminiiodide”** was presented at “International Conference on Recent Advances in Material Science and Technology” (ICRAMST - 2013) organized by The Department of Chemistry, National Institute of Technology Karnataka, Surathkal, Mangalore on 17th – 19th Jan 2013.
- Paper titled **“Corrosion behavior of Aluminium Kyanite in natural sea water”** was presented at “International Conference on Recent Advances in Material Science and Technology” (ICRAMST - 2013) organized by The Department of Chemistry, National Institute of Technology Karnataka, Surathkal, Mangalore on 17th – 19th Jan 2013.
- Paper titled **“Electrochemical studies of Al 6061 / zircon metal matrix composites in natural sea water”** was presented at “Second International Conference on Advanced Oxidation Process” (AOP-2012) organized by The Society of Environmental Chemistry and Allied Sciences and School of Environmental Sciences, Inter university Instrumentation Center, Mahatma Gandhi University, Kottayam, India during 5th – 8th Oct 2012.
- Paper titled **“Electrochemical studies of Al 7075 / zircon metal matrix composites in natural sea water”** was presented at “International Corrosion Conference and Expo” (CORCON-2012) organized by NACE International Gateway India Section (NIGIS) in association with Indian Institute of Corrosion (IIC) during 26th – 29th Sep 2012 at Hotel Grand Hyatt, Goa.
- Paper titled **“Effect of zircon on the corrosion rate of Al 6061 composites in alkali medium”** was presented at “International Conference on Current Trends in Chemistry

and Biochemistry” (ICCTCB-2009) organized by Department of Chemistry, Bangalore University, Bangalore on 18th – 19th Dec 2009.

- Paper titled **“Potentiodynamic polarization studies of Al 6061 composites reinforced with red mud in acid chloride medium”** was presented at “International Conference on Current Trends in Chemistry and Biochemistry” (ICCTCB-2009) organized by Department of Chemistry, Bangalore University, Bangalore on 18th – 19th Dec 2009.
- Paper titled **“Corrosion behavior of Al 6061 / zircon metal matrix composites in natural sea water by potentiodynamic polarization techniques”** was presented at “46th Annual Convention of Chemists and International Conference on Recent Research Trends in Chemical Sciences” at Chemistry Division, School of Science and Humanities, VIT University, Vellore, Tamil Nadu on 02nd – 06th Dec 2009, organized by Indian Chemical Society, Kolkata.
- Paper titled **“Electrochemical studies of Al 6061 / red mud metal matrix composites in sea water by open circuit potential method”** was presented at “46th Annual Convention of Chemists and International Conference on Recent Research Trends in Chemical Sciences” at Chemistry Division, School of Science and Humanities, VIT University, Vellore, Tamil Nadu on 02nd – 06th Dec 2009, organized by Indian Chemical Society, Kolkata.
- Paper titled **“Corrosion behavior of Al 6061 / zircon metal matrix composites in neutral chloride solutions”** was presented at “Three Day International Conference on Recent Advances in Industrial Electrochemical Science and Technology” (ICRAIEST-2009) on 05th – 07th Nov 2009, organized by Department of Chemistry, Mangalore University, Mangalagangothri, Mangalore, Karnataka.
- Paper titled **“Evaluation of corrosion rate of Al 6061 / redmud metal matrix composites in marine water”** was presented at “Three Day International Conference on Recent Advances in Industrial Electrochemical Science and Technology” (ICRAIEST-2009) on 05th – 07th Nov 2009, organized by Department of Chemistry, Mangalore University, Mangalagangothri, Mangalore, Karnataka.
- Paper titled **“Open circuit potential studies of Al 6061 / zircon metal matrix composites in alkali medium”** was presented at “Three Day International Conference on Frontiers in Chemical Research” (ICFCR-2008) on 29th – 31st Dec 2008, organized by Department of Chemistry, Mangalore University, Mangalagangothri, Mangalore, Karnataka.
- Paper titled **“Electrochemical mechanism studies of Al 6061 / red mud metal matrix composites in neutral chloride solutions”** was presented at “Three Day International Conference on Frontiers in Chemical Research” (ICFCR-2008) on 29th – 31st Dec 2008, organized by Department of Chemistry, Mangalore University,

Mangalagangothri, Mangalore, Karnataka.

- Paper titled **“Weight loss corrosion studies of Al 6061 / red mud metal matrix composites in sea water”** was presented at “International Symposium for Research Scholars on Metallurgy, Material Science and Engineering” an IIT Madras Golden Jubilee Event on 10th – 12th Dec 2008, organized by Department of Metallurgical and Materials Engineering IIT Madras in association with IIM Chennai Chapter, Material Advantage Chapter of IIT Madras, Metallurgical and Materials Engineering Students’ Association (METSA).
- Paper titled **“Corrosion studies of Al 6061 / zircon metal matrix composites in equimolar solution of sodium chloride and sodium hydroxide”** was presented at “45th Annual Convention of Chemists and International Conference on Recent Advances in Chemistry” at P.G. Department of Studies in Chemistry, Karnatak University, Dharwad, Karnataka on 23rd – 27th Nov 2008, organized by Indian Chemical Society, Kolkata.
- Paper titled **“Weight loss corrosion studies of Al 6061 / red mud metal matrix composites in equimolar solution of sodium chloride and sodium hydroxide”** was presented at “45th Annual Convention of Chemists and International Conference on Recent Advances in Chemistry” at P.G. Department of Studies in Chemistry, Karnatak University, Dharwad, Karnataka on 23rd – 27th Nov 2008, organized by Indian Chemical Society, Kolkata.
- Paper titled **“Weight loss corrosion studies of Al 6061 / zircon metal matrix composites in 0.035% sodium chloride solution”** was presented at “Eighth International Symposium on Advances in Electrochemical Science and Technology” at National Institute of Oceanography, Goa, India on 28th – 30th Nov 2006, organized by Society for Advancement of Electrochemical Science and Technology and Central Electrochemical Research Institute, Karaikudi, India.
- Paper titled **“Weight loss corrosion studies of Al 6061 / TiB<sub>2</sub> metal matrix composites in 1N HCl solution”** was presented at “Eighth International Symposium on Advances in Electrochemical Science and Technology” at National Institute of Oceanography, Goa, India on 28th – 30th Nov 2006, organized by Society for Advancement of Electrochemical Science and Technology and Central Electrochemical Research Institute, Karaikudi, India.
- Paper titled **“Study on antioxidant and antidiabetic factors from the extracts of medicinal plants”** was presented at “Eighth International Symposium on Advances in Electrochemical Science and Technology” at National Institute of Oceanography, Goa, India on 28th – 30th Nov 2006, organized by Society for Advancement of Electrochemical Science and Technology and Central Electrochemical Research Institute, Karaikudi, India.

- Paper titled **“Weight loss corrosion studies of Al 6061 / zircon metal matrix composites in 1N HCl solution”** was presented at “First International Conference on Frontier Technologies – Need for the Industry, Business and Education” on 6th – 8th Sep 2006, organized by ISTE chapter Adhiyamaan College of Engineering, Hosur, Tamil Nadu.
- Invited to chair a session in the **“Fourteenth International Conference on Composites / Nano Engineering” (ICCE-14)**, held from Jul 2nd - 8th, 2006 at Boulder, Colorado, USA. Organized by the Department of Mechanical Engineering, University of New Orleans.

*Paper Presentations in Conferences / Symposium (National - 61)*

- Paper titled **“Ferrite nanoparticles synthesized via combustion method for electrochemical and sensor studies”** was presented at “National Symposium on Electrochemical Science and Technology & ECSI Research Scholars Meet” (NSEST & ECSIRM -2020) on 21st – 22nd Jan 2021, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Paper titled **“Electrochemical Sensor Studies: Ferrite Nanoparticles synthesized ”** was presented at “National E -Conference on Innovative Research in Electronics & Telecommunication – 2020, (NCIRET-2020) on 15th May 2020, organized by The Department of Electronics & Telecommunication Engineering, JCOET, Yavatmal, Maharashtra.
- Paper titled **“Excellent Performance of Jatropha extract mediated synthesis of ZnFe<sub>2</sub>O<sub>4</sub> nanopowder as an electrochemical sensors”** was presented at “National E -Conference on Innovative Research in Electronics & Telecommunication – 2020, (NCIRET-2020) on 15th May 2020, organized by The Department of Electronics & Telecommunication Engineering, JCOET, Yavatmal, Maharashtra.
- Paper titled **“Comparison Study of Green and Chemical Methods for Synthesis of Nano Spinel MgFe<sub>2</sub>O<sub>4</sub> and its application as chemical sensor”** was presented at “National Conference Advanced Lithium Ion Batteries: Science and Technology, (NALIBST-2019) on 27th – 28th Dec 2019, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore & Department of Inorganic & Physical Chemistry, IISc, Bangalore.
- Paper titled **“Electrochemical & photocatalytic studies of nickel ferrite nanopartiles synthesized via probe sonication method”** was presented at “15th Kannada Science Conference” on 15th to 17th Sep 2019, organized by Swadeshi Vijnana Andolana, Karnataka & Davangere University, Davangere.
- Paper titled **“Synthesis of green engineered nano CuO and their applications in electrochemical and sensor studies”** was presented at “Trends in Advanced Materials and their Applications” (TAMA - 2017) on 30th November 2017, organized by

Department of Studies & Research in Physics, Tumkur University, Tumkur, Karnataka.  
ISBN No: 978-93-82694-44-1

- Paper titled **"Synthesis, structural and photoluminescence studies of zirconia"** was presented at "Trends in Advanced Materials and their Applications" (TAMA - 2017) on 30th November 2017, organized by Department of Studies & Research in Physics, Tumkur University, Tumkur, Karnataka. ISBN No: 978-93-82694-44-1
- Paper titled **"Centella Asiatica: Synthesis, structural and electrochemical studies"** was presented at "Trends in Advanced Materials and their Applications" (TAMA - 2017) on 30th November 2017, organized by Department of Studies & Research in Physics, Tumkur University, Tumkur, Karnataka. ISBN No: 978-93-82694-44-1
- Paper titled **"Electroplating of zinc on mild steel obtained by recovery of exhausted batteries leach solutions for corrosion protection"** was presented at "Recent Advances in Applied Sciences" (RAAS-2016) on 25th April 2016, organized by Department of Science & Humanities, AMC Engineering College, Bannerghatta road, Bengaluru-83, Karnataka.
- Paper titled **"Synthesis and characterization of ZnO/MgO nano particles by curry leaves through green approach and their photocatalytic applications"** was presented at "Recent Advances in Applied Sciences" (RAAS-2016) on 25th April 2016, organized by Department of Science & Humanities, AMC Engineering College, Bannerghatta road, Bengaluru-83, Karnataka.
- Paper titled **"Synthesis and characterization composite of MnO<sub>2</sub>/Graphene/MWCNT: An synergistic catalyst for degradation of methyl red and malachite green"** was presented at "Recent Advances in Applied Sciences" (RAAS-2016) on 25th April 2016, organized by Department of Science & Humanities, AMC Engineering College, Bannerghatta road, Bengaluru-83, Karnataka.
- Paper titled **"One pot approach of binary composite of GNS/MnO<sub>2</sub> for electrochemical studies and environmental applications"** was presented at "Recent Advances in Applied Sciences" (RAAS-2016) on 25th April 2016, organized by Department of Science & Humanities, AMC Engineering College, Bannerghatta road, Bengaluru-83, Karnataka.
- Paper titled **"Judd-Ofelt analysis and energy transfer mechanism in Pr<sup>3+</sup> doped Mg<sub>2</sub>SiO<sub>4</sub> nanophosphors"** was presented at "60th DAE Solid State Physics Symposium" on 21st – 25th Dec 2015, organized by BARC & DAE, BRNS at Amity University, UP.
- Paper titled **"Judd-Ofelt analysis of Sm<sup>3+</sup> doped Zn<sub>2</sub>TiO<sub>4</sub> nanophosphor"** was presented at "National Conference on Nano and Materials Science" (NMS - 2015) on 21st Dec 2015, organized by Department of Physics, Dayananda Sagar University, Bangalore -

68. ISBN No: 978-93-85682-09-4

- Paper titled **“Characterization and luminescence studies of LaAlO<sub>3</sub>:Sm<sup>3+</sup> nanophosphor”** was presented at “National Conference on Nano and Materials Science” (NMS - 2015) on 21st Dec 2015, organized by Department of Physics, Dayananda Sagar University, Bangalore - 68. ISBN No: 978-93-85682-09-4
- Paper titled **“Structural and photoluminescence studies of LaAlO<sub>3</sub>:Dy<sup>3+</sup> nanophosphor”** was presented at “National Conference on Nano and Materials Science” (NMS - 2015) on 21st Dec 2015, organized by Department of Physics, Dayananda Sagar University, Bangalore - 68. ISBN No: 978-93-85682-09-4
- Paper titled **“Preparation and characterization of MnFe<sub>2</sub>O<sub>4</sub> by solution combustion method: Photoluminescence and photo catalytic studies”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Synthesis and characterization of ZnFe<sub>2</sub>O<sub>4</sub> by aloe vera leaf extract”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Sol-Gel synthesis of NiFe<sub>2</sub>O<sub>4</sub> and its photo catalytic application”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“ZrO<sub>2</sub>:Dy<sup>3+</sup> nanophosphor: Facile synthesis, structural, photoluminescent and photocatalytic properties”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Bicrystalline ZrO<sub>2</sub>:Mg nano powders: Combustion synthesis, photoluminescence and photocatalytic studies”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“MgFe<sub>2</sub>O<sub>4</sub>-RGO composite: Synthesis, characterization and photo catalytic performance”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9



- Paper titled **“Electrochemical properties of MgO and ZnO nanoparticles: Synthesized by bio-mediated route”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Jatropha mediated ferrite based nanomaterials: Characterisation, photo catalytic performance and photoluminscent investigation ”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Synthesis and characterization of ornamented RGO/ZnO for electrochemical and photo catalytic activity”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Synthesis and characterization of MgO nanoparticles by low temperature combustion method and their corrosion studies on Al 7075”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Recovery of manganese oxide particle from waste dry cells using eco friendly leaching solid and their electrochemical studies”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Photoluminescence properties of Eu<sup>3+</sup> and Dy<sup>3+</sup> doped GdAlO<sub>3</sub>”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Judd-Ofelt analysis of Eu<sup>3+</sup> doped Mg<sub>2</sub>SiO<sub>4</sub> nanophosphors”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Judd-Ofelt analysis of Eu<sup>3+</sup> doped Zn<sub>2</sub>TiO<sub>4</sub> nanophosphors”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9

- Paper titled **“Enhancing the electrochemical properties of  $\beta$ -Nickel hydroxide by using nano zinc oxide for battery and super capacitor applications”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Synthesis and photoluminescence investigation of  $\text{Sm}^{3+}$  activated  $\text{CaAl}_2\text{O}_4$  phosphor”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Photoluminescence and Judd-Ofelt analysis of rare earth ( $\text{Tm}^{3+}$ ) doped YAP nanophosphors”** was presented at “National Conference on Advanced Functional Materials” (AFM – 2015) on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering, Bangalore – 78. ISBN: 978-93-85682-04-9
- Paper titled **“Synthesis and characterization of ZnO nanoparticles for corrosion studies of Al composites”** was presented at “Two – Day National Conference on Current Scenario in Material Chemistry” (CSIMC- 2015) on 9th - 10th Feb 2015, organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli. ISBN No: 978-93-81521-60-1
- Paper titled **“Effect of amine fictionalized graphene dispersion on the electrical, mechanical and fire retardation properties of epoxy nano-composites”** was presented at “Two – Day National Conference on Current Scenario in Material Chemistry” (CSIMC 2015) on 9th - 10th Feb 2015, organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli. ISBN No: 978-93-81521-60-1
- Paper titled **“ Recovery and characterization of metals from alkaline batteries by using hydrometallurgical process”** was presented at “Two – Day National Conference on Current Scenario in Material Chemistry” (CSIMC 2015) on 9th - 10th Feb 2015, organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli. ISBN No: 978-93-81521-60-1
- Paper titled **“Photocatalytic activity of combustion synthesized  $\text{YAlO}_3$  nanopowder”** was presented at “National Conference on Nano Science and Nano Technology” on 11th Oct 2013, organized by The Departments of Mechanical Engineering, Physics and Chemistry, BMS Institute of Technology, Bangalore. ISBN No: 978-81-928203-2-3
- Paper titled **“Synthesis and photoluminescence properties of  $\text{Sm}^{3+}$  doped  $\text{MgO}$  nanoparticles”** was presented at “National Conference on Nano Science and Nano

Technology” on 11th Oct 2013, organized by The Departments of Mechanical Engineering, Physics and Chemistry, BMS Institute of Technology, Bangalore. ISBN No: 978-81-928203-2-3

- Paper titled “**Luminescence studies of low temperature synthesized Re<sup>3+</sup> doped forsterite nanophosphors**” was presented at “National Conference on Nano Science and Nano Technology” on 11th Oct 2013, organized by The Departments of Mechanical Engineering, Physics and Chemistry, BMS Institute of Technology, Bangalore. ISBN No: 978-81-928203-2-3
- Paper titled “**Corrosion studies of Al 7075 / zircon metal matrix composites in neutral chloride mediums by open circuit potential techniques**” was presented at “National Symposium on Electrochemical Science and Technology” (NSEST-2012) on 24th – 25th Aug 2012, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Paper titled “**Synthesis and luminescence studies of Co<sup>2+</sup> doped Nd<sub>2</sub>O<sub>3</sub> nanophosphor**” was presented at “National Conference on Green Technologies, Fight Pollution” on 4th – 5th April 2012, organised by Department of Biotechnology, Acharya Institute of Technology, Bangalore. ISBN: 978-81-927319-1
- Paper titled “**Combustion synthesis, optical and luminescence studies of neodymium oxide**” was presented at “National Conference on Green Technologies, Fight Pollution” on 4th – 5th April 2012, organised by Department of Biotechnology, Acharya Institute of Technology, Bangalore. ISBN: 978-81-927319-1
- Paper titled “**YAlO<sub>3</sub>:Cu<sup>2+</sup> nanophosphor: Synthesis and dosimetric studies**” was presented at “National Conference on Green Technologies, Fight Pollution” on 4th – 5th April 2012, organised by Department of Biotechnology, Acharya Institute of Technology, Bangalore. ISBN: 978-81-927319-1
- Paper titled “**YAlO<sub>3</sub>:Gd<sup>3+</sup> nanophosphor: synthesis and dosimetric studies**” was presented at “National Conference on Green Technologies, Fight Pollution” on 4th – 5th April 2012, organised by Department of Biotechnology, Acharya Institute of Technology, Bangalore. ISBN: 978-81-927319-1
- Paper titled “**Phytochemistry and antimicrobial studies on medicinal plant terminalia arjunalinn (bark)**” was presented at “National Conference on Social Relevance of Chemical Sciences” (SRCS – 2011) on 26th – 27th Mar 2011, organized by Department of Chemistry, Kuvempu University, Karnataka.
- Paper titled “**Corrosion characterization of Al 6061 / zircon metal matrix composites in acid chloride mediums by potentiodynamic polarization techniques**” was presented at “National Symposium on Electrochemical Science and Technology” (NSEST-2009) on 17th – 18th Jul 2009, organized by The Electrochemical

Society of India, Indian Institute of Science, Bangalore.

- Paper titled **“Evaluation of corrosion rate of Al 6061 / zircon metal matrix composites in sea water”** was presented at “ISAMPE National Conference on Composites” (INCCOM-7) on 4th – 5th Dec 2008, organized by Indian Society for Advancement of Materials and Process Engineering in collaboration with National Aerospace Laboratories (NAL), Bangalore.
- Paper titled **“Weight loss corrosion studies of Al 6061 / redmud metal matrix composites in sodium hydroxide solutions”** was presented at “Fourteenth National Congress on Corrosion Control” (NCCC-14) on 18th – 20th Sep 2008, organized by National Corrosion Council of India, Karaikudi, in collaboration with Central Electrochemical Research Institute, Karaikudi and Indian Institute of Chemical Technology, Hyderabad.
- Paper titled **“Open circuit potential studies of Al 6061 / zircon metal matrix composites in neutral chloride medium”** was presented at “Fourteenth National Congress on Corrosion Control” (NCCC-14) on 18th – 20th Sep 2008, organized by National Corrosion Council of India, Karaikudi, in collaboration with Central Electrochemical Research Institute, Karaikudi and Indian Institute of Chemical Technology, Hyderabad.
- Paper titled **“Corrosion characterization of Al 6061 / zircon metal matrix composites in acid chloride mediums by open circuit potential studies”** was presented at “National Symposium on Electrochemical Science and Technology” (NSEST-2008) on 18st – 19th Jul 2008, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Paper titled **“Weight loss corrosion studies of Al 6061 / zircon metal matrix composites in different concentrations of sodium hydroxide solutions”** was presented at “Forty-fourth Annual Convention of Chemists” on 23rd – 27th Dec 2007, organized by Indian Chemical Society, at Mahatma Gandhi Institute of Applied Sciences, Jaipur.
- Paper titled **“Photo catalytic degradation of pulp and paper industrial effluent using semiconductor TiO<sub>2</sub> nano particles”** was presented at “Forty-fourth Annual Convention of Chemists” on 23rd – 27th Dec 2007, organized by Indian Chemical Society, at Mahatma Gandhi Institute of Applied Sciences, Jaipur.
- Paper titled **“Corrosion inhibition of Al 6061 alloy reinforced with TiO<sub>2</sub> nano particles”** was presented at “National Conference on Emerging Areas in Chemical and Biological Sciences” (NCEACB - 2007) on 23rd - 24th Mar, 2007, conducted by School of Chemical Sciences, Departments of Chemistry and Industrial Chemistry, Kuvempu University, Karnataka.

- Paper titled **“Inhibiting effect of thiourea on the corrosion of mild steel in 0.1N acid chloride medium”** was presented at “National Conference on Emerging Areas in Chemical and Biological Sciences” (NCEACB - 2007) on 23rd - 24th Mar, 2007, conducted by School of Chemical Sciences, Departments of Chemistry and Industrial Chemistry, Kuvempu University, Karnataka.
- Paper titled **“Open circuit potential studies of Zn 27 / quartz metal matrix composites in different concentrations of hydrochloric acid”** was presented at “Thirteenth National Congress on Corrosion Control” (NCCC-13) on 12th – 14th Oct 2006, organized by National Corrosion Council of India, Karaikudi, in collaboration with Central Electrochemical Research Institute, Karaikudi and National Institute of Technology, Surathkal, Karnataka.
- Paper titled **“Weight loss corrosion studies of Al 6061 / zircon metal matrix composites in 3% sodium chloride solution”** was presented at “Thirteenth National Congress on Corrosion Control” (NCCC-13) on 12th – 14th Oct 2006, organized by National Corrosion Council of India, Karaikudi, in collaboration with Central Electrochemical Research Institute, Karaikudi and National Institute of Technology Surathkal, Karnataka.
- Paper titled **“Weight loss corrosion studies of Al / TiB<sub>2</sub> metal matrix composites in 3% sodium chloride solution”** was presented at “Thirteenth National Congress on Corrosion Control” (NCCC-13) on 12th – 14th Oct 2006, organized by National Corrosion Council of India, Karaikudi, in collaboration with Central Electrochemical Research Institute, Karaikudi and National Institute of Technology Surathkal, Karnataka.
- Paper titled **“Corrosion behavior of Al 6063 / garnet composites by potentiodynamic polarization techniques”** was presented at “National Symposium on Electrochemical Science and Technology” (NSEST-2006) on 21st – 22nd Jul 2006, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Paper titled **“Open circuit potential studies of Zn 27 / quartz composites in acid chloride medium”** was presented at “Thirteenth National Convention of Electrochemists” (NCE-13) on 5th – 6th May 2006, organized by Society for Advancement of Electrochemical Science and Technology and Central Electrochemical Research Institute, Karaikudi, Tamil Nadu.
- Paper titled **“Comparative weight loss corrosion studies of Al 6061 / zircon metal matrix composites in acid and neutral chloride solutions”** was presented at “Thirteenth National Convention of Electrochemists” (NCE-13) on 5th – 6th May 2006, organized by Society for Advancement of Electrochemical Science and Technology and Central Electrochemical Research Institute, Karaikudi, Tamil Nadu.

- Paper titled “**Inhibiting effect of thiourea on the corrosion of mild steel in 1M HCl medium**” was presented at “National Conference on Application Oriented Materials” (NCAOM 2006) on 21st - 22nd Apr 2006, conducted by Department of Physics, SRM Institute of Science and Technology (Deemed University), Kattankulathur, Tamil Nadu.

***Workshops/Seminars/Symposium/ Training Programme Organised:***

- ❖ “Modi @ 20” Book Release & Samvad Program organized by Pragna, Davanagere University and Teachers Prakosta Davangere on 26/09/2022.
- ❖ Two Days Workshop on “Skill Development for Non-Teaching Staff” organized by the IQAC, Davanagere University on 14th – 15th Aug 2021.
- ❖ Workshop on “Preparations for NAAC Peer Team Visit” organized by the IQAC, Davanagere University on 22nd July 2021.
- ❖ National Webinar on “National Education Policy-2020: Strategies and Implementation” organized by the IQAC, Davanagere University on 8th July 2021.
- ❖ One Day Basic Training Programme on “Human Rights”, an NHRC Sponsored & IQAC Initiative program organized in Collaboration with Department of Studies in Political Science on 9th March 2021.
- ❖ “International Women’s Day 2021” organized by Internal Quality Assurance Cell & Centre for Women Studies, Davanagere University on 8th March 2021.
- ❖ Workshop on “National Education Policy-2020: Way Forward” organized by the IQAC, Davanagere University on 18th Feb 2021.
- ❖ MoU Signing of DU – Parivartan (Unit of Prajna Pravah), Karnataka Chapter Ranebennur, ASTU, EWIT, Synus Lab organized by IQAC, Davanagere University, on 12th, Feb, 2021.
- ❖ “Workshop on NAAC Criteria’s” organized by Internal Quality Assurance Cell Davanagere University from 3rd Feb, 2021 to 10th Feb 2021.
- ❖ Workshop on “Academic Accreditations - The Way Forward” jointly organized by Internal Quality Assurance Cell Davanagere University & Educational Resources & Process Management Pvt. Ltd., Mumbai on 2nd Feb, 2021.
- ❖ National Symposium on Electrochemical Science and Technology (NSCST-2020) & ECSI Research Scholars Meet (ECSIRM-2020) on organized by The Electrochemical Society of India, IISC Campus Bangalore and Department of Inorganic & Physical Chemistry, IISC, Bangalore on 21st - 22nd Jan, 2021.



- ❖ Organized a “NAAC Orientation Program to University Staff” by Internal Quality Assurance Cell (IQAC) of Davangere University, Davangere, on 21th Jan, 2021.
- ❖ Online Lecture Series on Nobel Prizes 2020, jointly organized by Internal Quality Assurance Cell Davangere University & Karnataka Association for Advancement in Science (KAAS), Bangalore on 23rd December, 2020.
- ❖ One – Day Workshop on PEO’s, PO’s and CO’s in Outcome Based Education (OBE) Environment Organized by Department of Studies in Physics association with IQAC, Davangere University, on 15th December, 2020.
- ❖ Webinar on “Research Solution to Davangere University” organized by IQAC, Davangere University in association with EBSCO Information Services India Private Limited , New Delhi, on 10th December, 2020.
- ❖ One – Day Workshop on “Copyright & Trademarks” organized by Institute of Management Studies association with IQAC, Davangere University, on 9th December, 2020.
- ❖ One Day Online Workshop On “Course Objectives, Program Objectives and Program Specific Objectives” organized by Institute of Management Studies association with IQAC, Davangere University, on 9th December, 2020.
- ❖ Virtual MoU Signing of DU – KSCST IP Cell organized by IP Cell in association with IQAC, Davangere University, on 12th , November, 2020.
- ❖ Webinar on “Gender Sensitization” organized by Women, Anti-sexual harassment Committee in association with IQAC, Davangere University on 04th, November, 2020.
- ❖ Special Lecture on “Importance of Breath Yoga” by Acharya Dr. M Niranjana Murthy, President- International Naturopathy Organization, Karnataka State on 2nd October, 2020 organized by the Department of Studies in Yogic Science & IQAC, Davangere University.
- ❖ Special Lecture on “Importance and Subject Matters of Intellectual Property Rights” by Mr. Nagarjun M G, Project Associate, KSCST, on 2nd October, 2020 organized by the IP Cell & IQAC, Davangere University.
- ❖ “Three Days National Convention on NEP-2020” organized by the IQAC, Davangere University in association with KAAS, Bangalore during 21st - 23rd September 2020.
- ❖ One Day Virtual Workshop on “Surface Engineering & Modification for Better Performance” on 19th September 2020, organized by The Electrochemical Society of India, IISC Campus Bangalore.

- ❖ Special Lecture by Prof. T V Kattimani, Member, National Education Policy – 2020, Vice Chancellor, Central Tribal University , Andhra Pradesh (CTUAP) Former Vice-Chancellor, Indira Gandhi National Tribal University Amarkantak (M.P.) on 18th September, 2020 organized by the IQAC, Davangere University.
- ❖ Virtual Colloquium on National Education Policy – 2020, Equity & Inclusion in National Education Policy in Association with Bharathiya Shikshan Mandal, Karnataka (South) organized by the IQAC Davangere University on 28th August 2020.
- ❖ Web Symposium “Atma Nirbhar Bharat Abhiyan” The Road Ahead In Perspective of Davangere University organized by the IQAC Davangere University on 24th August 2020.
- ❖ Virtual Inauguration of DU – KSCST IP Cell organized in association with Karnataka State Council for Science and Technology (KSCST) Indian Institute of Science Campus, Bangalore by the IQAC Davangere University on 18th August 2020.
- ❖ Special Panel Discussion on the occasion of 74th Independence Day Celebration on 15th August 2020, Saturday from 4pm to 6 pm on the topic "Academia-Research-Industry Interactions in Electrochemical Science and Technology for “Aatma Nirbhar Bharat Abhiyan” organized by The Electrochemical Society of India, IISC Campus Bangalore.
- ❖ Online Lecture Series on “Materials and Electrochemical Science and Technology” organized by The Electrochemical Society of India, IISC Campus Bangalore from 19th July - 8th Aug, 2020.
- ❖ International Webinar as a Webinar Chair on “Multifunctional Applications of Nanometaloxides” by Department of Basic Science & Humanities, East West Institute of Technology, Bangalore on 29th July 2020.
- ❖ AICTE sponsored 5 Days National Web Conference on “Intellectual Property Rights & Innovations” from 23rd to 27th June 2020, organized by East West Institute of Technology in association with Karnataka State Council for Science and Technology & Cell for IPR Promotion and Management, IISc Campus, Bangalore.
- ❖ Organised a Webinar on “Awareness on Revised Accreditation Framework” by Internal Quality Assurance Cell (IQAC) of Davangere University, Davangere, in association with National Assessment & Accreditation Council (NAAC), Bangalore on 10th - 11th May, 2020.
- ❖ Organized online “COVID-19 Pandemic Awareness Activity” by Internal Quality Assurance Cell (IQAC) of Davangere University, Davangere, during 4th - 16th May, 2020.

- ❖ Organised online “COVID-19 General Awareness Quiz” by Internal Quality Assurance Cell (IQAC) of Davangere University, Davangere, during 26th - 30th April, 2020.
- ❖ Served as a National Advisory Committee Member in the 5th International Conference on “Chemical and Environmental Research” (ICCER – 2020) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, on 8th Jan 2020.
- ❖ “Hands on Training Programme on Batteries & Fuel Cells” Organised by PG & Research Department of Chemistry, Davangere University, Davangere on 6th Jan 2020.
- ❖ National Conference on “Advanced Lithium Ion Batteries: Science & Technology (NALIBST - 2019)” organized by The Electrochemical Society of India, IISC Campus Bangalore on 27th - 28th Dec, 2019.
- ❖ International Year of Periodic Table (IYPT- 2019), A Fascinating Design History of Periodic Table of Elements, A Tribute to Dmitri Mendeleev Organised by PG & Research Department of Chemistry, Davangere University, Davangere on 3rd Dec 2019.
- ❖ National Symposium on “Electrochemical Science and Technology (NSEST 2019)” organized by The Electrochemical Society of India, IISC Campus Bangalore and Department of Inorganic & Physical Chemistry, IISC, Bangalore on 19<sup>th</sup> - 20<sup>th</sup> July, 2019.
- ❖ 4<sup>th</sup> International Conference on Science, Agriculture & Technology for Society (ICSTS – 2019), on 13th – 15th May 2019 in Bengaluru at East West Institute of Technology, Bengaluru, Karnataka, India.
- ❖ “Hands on Training: New Generation Materials for Energy Storage Devices” (NGMESD-2018) organized by East West Institute of Technology, Bengaluru, Karnataka, India on 15<sup>th</sup> & 16<sup>th</sup> October 2018.
- ❖ Two Day Workshop on “Intellectual Property Rights and Innovations” (IPR-2018) organized by East West Institute of Technology, Bengaluru, Karnataka, India on 11<sup>th</sup> and 12<sup>th</sup> October 2018.
- ❖ International Conference on Advances in Science & Engineering (ICASE-2017) organized by East West Institute of Technology & Unnathi Research Foundation on 19<sup>th</sup> – 22<sup>nd</sup> January, 2017.
- ❖ Served as a National Advisory Committee Member in the International Conference on “Chemical and Environmental Research” (ICCER – 2017) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, on 7<sup>th</sup> January 2017.

- ❖ Served as Technical Program Committee member for “The 3rd International Conference on Advance Materials Research and Applications” (AMRA 2016) will be held from Dec. 18-21, 2016, in Guangzhou, China.
- ❖ Served as Technical Committee member for “International Conference on Smart Engineering Materials” (ICSEM - 2016) will be held from Dec. 20-22, 2016, in RV College of Engineering, Bangalore.
- ❖ International Conference on Nanotechnology (ICNano-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University in association with The Electrochemical Society of India, IISC Campus Bangalore and Indian Ceramic Society, Karnataka Chapter on 21<sup>st</sup> – 23<sup>rd</sup> April, 2016.
- ❖ National Symposium on “Electrochemical Science and Technology (NSEST 2015)” organized by The Electrochemical Society of India, IISC Campus Bangalore and Department of Inorganic & Physical Chemistry, IISC, Bangalore on 24<sup>th</sup> - 25<sup>th</sup> July, 2015.
- ❖ International Conference on “Electrochemical Science and Technology (ICONEST 2014)” organized by The Electrochemical Society of India, IISC Campus Bangalore on 7<sup>th</sup> - 9<sup>th</sup> August, 2014.
- ❖ Workshop on “LaTex” organized by Department of Information Science & Engg., East West Institute of Technology, Bangalore on 26<sup>th</sup> Oct 2013.
- ❖ International Symposium on “Youth Against Cancer” organized by Carcinogenesis Foundation (USA) and Narain Sewa Sansthan, India on 30<sup>th</sup> – 31<sup>st</sup> Aug 2013 at Sindhi College, Bangalore.
- ❖ Faculty Development programme on “Micro Nano Technology in Small Satellites” organized by East West Institute of Technology, Bangalore on 19<sup>th</sup> – 22<sup>th</sup> Aug 2013.
- ❖ One day workshop on “Eco – Friendly Metal Finishing Processes” organized by The Electrochemical Society of India, IISC Campus Bangalore on 19<sup>th</sup> June, 2013.
- ❖ Faculty Development programme on “Institutional Hazardous Wastes Management” organized by The Electrochemical Society of India, IISC Campus Bangalore in association with Karnataka State Pollution Control Board, Bangalore on 8<sup>th</sup> - 9<sup>th</sup> Feb, 2013.
- ❖ 15<sup>th</sup> ISTE Karnataka State Faculty Convention and 23<sup>rd</sup> Dr. L S. Chandrakant Memorial Lecture organized by East West Institute of Technology, Bangalore on 7<sup>th</sup> – 8<sup>th</sup> Dec 2012.
- ❖ National Conference on “Developments and Opportunities in Civil Engineering, Applied Sciences and Mechanical Engineering (DOCAM -12)” organized by East West Institute of Technology, Bangalore on 18<sup>th</sup> - 19<sup>th</sup> May 2012.

- ❖ National Conference on “Emerging Trends in Information Technology and Mathematics (ETITM -11)” organized by East West Institute of Technology, Bangalore on 3<sup>rd</sup> - 4<sup>th</sup> Nov 2011.
- ❖ One day National Workshop on “Program Educational Objectives(PEO) and Outcomes” organized by ISTE Chapter, East West Institute of Technology, Bangalore and Sunrise Technical Education Promotional Society (STEPS), New Delhi on 5<sup>th</sup> Mar 2011.
- ❖ “Special Camping Programme on Environmental Upgradation (SCPEU)” organized by East West Institute of Technology NSS Unit, Karnataka Environment Research Foundation (KERF), Bangalore and Rotary Bangalore Whitefield from 9<sup>th</sup> - 14<sup>th</sup> Feb 2009.

***Workshops/Seminars/Symposium/ Training Programme Attended:***

- Participated in the “National Symposium on Electrochemical Science and Technology” (NSEST-2022) held at IISC, Bangalore, on June 24th - 25th, 2022, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Participated in the One Week AICTE sponsored online Short Term Training Programme (STTP) on “Emerging Trends in Nanomaterials for Electronic and Optoelectronic Devices” (Series-III: Fabrication and Characterization of Optoelectronic & Photonic Devices) organized by Department of Electronics and Communication Engineering, on May 24th -29th 2021.
- Participated in the International Conference on “Smart Materials: Application to Devices (ICSMAD - 2021) jointly organized by Department of Physics and Department of Electronics, Kamla Nehru Mahavidyalaya, Nagpur, on May 17th -18th, 2021.
- Attended One Day National Workshop on “National Education Policy 2020 - Implementation and Challenges” organized on May 16, 2021 by Priyadarshini Institute of Engineering & Technology, Nagpur.
- Participated in the 22nd Virtual Webinar on Physics of nonmaterial's: Synthesis, Characterization and Applications held on the 14th May 2021 organised by the REVA University, Bangalore.
- Participated in “International Conference on Advanced Materials Behaviour & Characterization”, organized by Mattest Research Academy, Chennai, Tamil Nadu, India during 24-26 April 2021.
- Participated in ‘Patent and its impact on Small and Medium-Sized Enterprises (SMEs)’ awareness survey, as a part of World IPR Day Celebrations- 2021, conducted by GCU-KSCST IP Cell in collaboration with Internal Quality Assurance Cell and Academic

Schools of Garden City University, in April 2021

- Participated in Three Day Virtual National Workshop on “Advanced Materials for Energy and Environment Applications” during 21st to 23rd December 2020 Organized by Department of Materials Science and Nanotechnology, Yogi Vemana University, Kadapa.
- Participated in the Webinar on “Nanophosphors and their Luminescence Studies” held on November 19th, 2020 organized by the Department of Physics, in association with Institution’s Innovation Council of Channabasaveshwara Institute of Technology, Gubbi.
- Completed online course on “Beginners’ guide to writing a manuscript in LaTeX” conducted by Researcher Academy, Elsevier, on October 2nd, 2020.
- Participated in the Online Workshop on Rietveld Refinement Method organized by UGC-DAE Consortium for Scientific Research, Mumbai Centre in association with Indore Centre held during September 22 - 24, 2020.
- Participated in the One Day- Virtual Roundtable On “Geographical Indications - Protection & Promotion in India” on 20th August 2020”, organized by the IPR CHAIR & CIPRA, National Law School of India University, Bangalore, in association with Geographical Indications Registry, India.
- Attended Online Certificate Course on “Nanomaterials Synthesis and Characterization Techniques (NSCT-2020)” as prescribed and ported by the Department of Physics, Shri Shivaji Science College, Amravati (MS), during 27th July -15th August 2020.
- Participated in the Five day online Faculty Development Program On “Advanced Nano Materials, Nano Fabrication Techniques & Devices” Organized by Department of Mechanical Engineering, BMS Institute of Tehology & Management, Bangalore, from 10th - 14th August 2020.
- Participated in the Five day online Faculty Development Program On “Recent Advancements in Nano particles, Films and Membranes” Organized by Department of Chemical Engineering, SIT, Tumakuru, from 10th - 14th August 2020.
- Completed online course on “Guide to reference managers: How to effectively manage your references” & “How to prepare your manuscript” conducted by Researcher Academy, Elsevier, on August 7th, 2020.
- Participated in the One Day Webinar On “NAAC Assessment and Accreditation Process” Revised 2020 Guidelines of NAAC, organized by Jhulelal Institute of Technology, Nagpur in association with National Assessment and Accreditation Council (NAAC), Bangalore, on 20th July 2020.



- Participated in the Webinar on Role of Quality Assurance in Higher Education - IQAC organized by Department of Electronics & Communication, AMC Engineering College, Bangalore, on 14th July 2020.
- Participated in the 3 Days Webinar Series on Scope of Nanomaterials in Engineering & Technology organized by Department of Engineering Sciences, Marathwada Mitramandal's College of Engineering, Pune, from 9th – 11th July 2020.
- Participated in the Webinar on COVID-19 An Imposed Paradigm Shift in the Tourism & Aviation Industry organized by Department of Hotel Management, AMC College, Bangalore, on 9th July 2020.
- Completed online course on “Structuring your article correctly” & “How to write an abstract and improve your article” conducted by Researcher Academy, Elsevier, on July 4th, 2020.
- Participated in the National Webinar on Pandemic Perceptiveness in the post COVID-19 World organized by Indian Society of Analytical Scientists (ISAS), Nagpur Chapter on 4th July 2020.
- Participated in the Webinar on “Advisory Quotient: Shifting Adversities into Opportunities” organized by Nagarjuna College of Engineering & Technology, Bangalore, Karnataka on July, 4th, 2020.
- Successfully Completed a 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from June 04 - July 01, 2020 organized by Teaching Learning Center, Ramanujan College, University of Delhi.
- Completed online course on “How to turn your thesis into an article”, “Why write a book?”, “How to get your book published” & “Discoverability: top tips to get your book out there” conducted by Researcher Academy, Elsevier, on June 28th, 2020.
- Participated in the online Quiz on “NAAC Revised Accreditation Framework” organized by Internal Quality Assurance Cell (IQAC) of, Dr. Ambedkar College of Arts, Commerce & Science, Chandrapur, Maharashtra on June, 10, 2020.
- Completed online course on “10 tips for writing a truly terrible journal article” conducted by Researcher Academy, Elsevier, on June 9th, 2020.
- Completed online course on “Focus on Peer Review” conducted by Nature Masterclasses, Springer Nature, on May 31st, 2020.
- Participated in the National E Conference on “Smart Materials & Nanotechnology” organized by Department of Physics, Kamla Nehru Mahavidyalaya, Nagpur, on May 30th, 2020.

- Completed online course on “5 Diseases ailing research – and how to cure them”, “Using proper manuscript language” & “Writing a persuasive cover letter for your manuscript” conducted by Researcher Academy, Elsevier, on May 25th, 2020.
- Completed online course on “How to secure funding - ECR edition” conducted by Researcher Academy, Elsevier, on May 24th, 2020.
- Participated in the webinar on “Fundamentals of Biostatistics” organized by Department of Biotechnology, RV College of Engineering, Bangalore, on May 23rd, 2020.
- Completed online course on “Funding Hacks for Researchers” conducted by Researcher Academy, Elsevier, on May 23rd, 2020.
- Completed online course on “Discover how metrics can boost funding and networking opportunities” & “Successful research grant applications – getting it right” conducted by Researcher Academy, Elsevier, on May 22nd, 2020.
- Participated in the e-FDP on “Materials Science: Synthesis & Characterization” organized by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Maharashtra, from 11th May to 15th May 2020.
- Participated in the webinar on “Intellectual Property Rights” organized by Department of MBA, SIET, Vijayapura, Karnataka on May 14th, 2020.
- Participated in the online “COVID-19 Pandemic Awareness Quiz” organized by Department of MBA & Research Center in association with EWIT NSS UNIT, East West Institute of Technology, Bangalore, on May 02, 2020.
- Participated in the One Week Online Faculty Development Program on “Innovation in Teaching & Learning” organized by Department of Computer Engineering, JCOET, Yavatmal from 27th April to 2nd May 2020.
- Attended online “COVID-19 Pandemic Disease Awareness Quiz” organized by Sevalal Mahila Mahavidyalaya, Nagpur, on 26th April, 2020.
- Participated in the online “COVID-19 Pandemic General Awareness Quiz” organized by Internal Quality Assurance Cell (IQAC) of, Yeshwantrao Chavan Mahavidyalaya Tuljpur, Maharashtra on April, 17, 2020.
- Participated in the online “COVID-19 Pandemic General Awareness Quiz” organized by Department of RISE, Chandigarh Group of Colleges, Mohali on April, 17, 2020.
- Participated in the 3 days Online Course on “Basic Principles of Spectroscopy” organized by Department of Chemistry, AVS College of Arts & Science, Salem from 17th to 19th April 2020.

- Participated in the Online Workshop on Intellectual Property Rights, on April 10th & 11th, 2020, organized by Pandit Deendayal Petroleum University, Gandhinagar - 382007 Gujarat.
- Participated in the Webinar on "Recent Innovations in Laboratory X-ray Instrumentation with Synchrotron-class Performance" on Apr 10, 2020, organized by Sigray, Inc., USA
- Participated in the "Faculty Development Program" organized by Davangere University, Davangere from 6th - 13th Jan 2020.
- Participated in the one day workshop on "New Approach to the Revised Assessment & Accreditation of NAAC" organized by Global Academy of Technology, Bangalore - 98 on 4<sup>th</sup> Jan, 2019.
- Participated in the one day "IEEE IPR Workshop 2018" organized by Visvesvaraya Technological University, Belagavi on 25 Aug, 2018.
- Participated in the one day workshop on "Role of Chemistry in Higher Engineering Courses" organized by Department of Chemistry, Sambhram Institute of Technology, Bangalore on 20<sup>th</sup> Jan, 2018.
- Participated in the Two Weeks AICTE sponsored Faculty Development Programme on "Recent Development & Challenges in Materials & Manufacturing Process" (RDCMMP 2018) organized by Department of Mechanical Engineering, Bangalore Institute of Technology, Bangalore from 1<sup>st</sup> Jan, to 13<sup>th</sup> Jan 2018.
- Participated as Resource Person in the "International Yoga Day" held at East West Institute of Technology, Bangalore on 25<sup>th</sup> Feb 2016.
- Participated in the "Faculty Development Program on Research Process" held at East West Institute of Technology, Bangalore on 25<sup>th</sup> Feb 2016.
- Participated in the 18<sup>th</sup> ISTE Karnataka State Level Faculty Convention held during the Nov 6<sup>th</sup> – 7<sup>th</sup> 2015 at PES University, Bangalore.
- Participated in the International Conference at 7th Bangalore India Nano 2014 on 4th – 6th Dec 2014 at The Lalit Ashok, Bangalore.
- Participated in the NBA workshop on "Outcome Based Education & Accreditation" on 7<sup>th</sup>& 14<sup>th</sup> - 16<sup>th</sup> June 2014, organized by NMAMIT, Nitte in association with NBA, New Delhi.
- Participated in the International Conference at 6<sup>th</sup> Bangalore India Nano 2013 on 4<sup>th</sup> – 6<sup>th</sup> Dec 2013 at The Lalit Ashok, Bangalore.

- Participated in the UGC sponsored state level seminar on “Electrochemistry and Renewable Energy” on 4<sup>th</sup> Sep 2013, organized by Department of Chemistry, SJRC, Bangalore.
- Participated in the one day workshop on “Water and Water Treatment” organized by The Electrochemical Society of India, IISC Campus Bangalore in association with CSIR New Delhi and Karnataka State Pollution Control Board, Bangalore on 30<sup>th</sup> Jan, 2013 at Choksi hall IISc Bangalore.
- Participated in the Workshop on “Learn MATLAB in 2 Days” organized by Department of Basic Sciences at SJB Institute of Technology, Bangalore -60, on 19<sup>th</sup> and 20<sup>th</sup> Nov 2012.
- Participated in the National Seminar on “Emerging Trends in Computer Science and Engineering” organized by CENSA on 10<sup>th</sup> Oct 2012, at East West Institute of Technology, Bangalore.
- Participated in the Training and Orientation Course for NSS Programme officers organized by NSS Empanelled Training Institute for Karnataka (ETI), University of Agricultural Sciences, Dharwad, from 27<sup>th</sup> Feb 2012 to 03<sup>rd</sup> Mar 2012.
- Participated in the Seminar on “Eco – Friendly Metal Finishing Processes and RoHS Compliance Process” held at IISC, Bangalore, on 14<sup>th</sup> and 15<sup>th</sup> Jun 2012, organized by The Electrochemical Society of India, IISC, Bangalore, in collaboration with CSIR, New Delhi.
- Participated in “National Seminar on Industrial Metal Finishing & Electroplating” held at IISC, Bangalore, on May 8<sup>th</sup> - 10<sup>th</sup>, 2012, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore and Indian Space Research Organization (ISRO). Bangalore.
- Participated in the National Conference on “Recent Advances in Chemical and Environmental Sciences” held at School of Graduate Studies, Jain University, Bangalore on 28<sup>th</sup> - 29<sup>th</sup> Dec 2011.
- Participated in All India training Programme on Industrial Metal Finishing (AITP – 2011) held at IISC, Bangalore, on Nov 21<sup>st</sup> - 26<sup>th</sup>, 2011, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Participated in the 14<sup>th</sup> ISTE Karnataka State Faculty Convention held during the Nov 18<sup>th</sup> – 19<sup>th</sup> 2011 at PESIT, Bangalore.
- Participated in “National Seminar on Recent advances in Materials Science” held at DBIT Bangalore, on Oct 21<sup>st</sup> – 22<sup>nd</sup> 2011.

- Participated in the “National Symposium on Electrochemical Science and Technology” (NSEST-2011) held at IISC, Bangalore, on Aug 19<sup>th</sup> - 20<sup>th</sup>, 2011, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore.
- Participated in the one day workshop on “e - Waste, Regulations, Hazards, Solutions” held at IISC, Bangalore, on 29<sup>th</sup> Jan, 2011, organized by The Electrochemical Society of India in association with Karnataka State Pollution Control Board Bangalore.
- Participated in the inter-collegiate Climate Science Quiz organized by the Divecha Centre for Climate Change, Indian Institute of Science, on 3<sup>rd</sup> Nov 2010 at IISC Bangalore.
- Participated in the one day workshop on “Innovative Methods of Teaching”, held at Department of Chemistry, Kuvempu University, on 28<sup>th</sup> Sep 2010.
- Participated in All India training Programme on Industrial Metal Finishing (AITP – 2009) held at IISC, Bangalore, on Feb 23<sup>rd</sup> - 28<sup>th</sup>, 2009, organized by The Electrochemical Society of India, Indian Institute of Science, Bangalore and Indian Space Research Organization (ISRO). Bangalore.
- Participated in the National seminar on – Fusion possibilities of Ballet and Theatre on 26<sup>th</sup> Aug 2007, held at city central library hall, Hampi Nagar, Bangalore.
- Participated in the 10<sup>th</sup> VTU Inter Collegiate Athletic meet held at KIT, Tiptur from 30<sup>th</sup> Oct to 2<sup>nd</sup> Nov 2007 as a team manager.
- Participated in the state level one day workshop on “Reversed Syllabus in Engineering Chemistry Theory and Lab of I / II Semester B.E., 2006-07”, held at B.V. Bhoomaraddi College of Engineering and Technology, Hubli on 9<sup>th</sup> Sep 2006.
- Participated in the short term training program on “ Advances in Instrumental Methods of Analysis” (AIM – 2006) conducted jointly by the departments of chemistry of BMS College of Engineering and Dr. Ambedkar Institute of Technology, Bangalore from 26<sup>th</sup> - 30<sup>th</sup> Jun 2006.
- Participated in the National Conference on “Train the Trainers” held at C.I.T. Gubbi, on 5<sup>th</sup> - 6<sup>th</sup> Apr 2006.
- Attended the Seminar on “Physics of Nanotechnology and Controlling Air Pollution” conducted on 3<sup>rd</sup> Dec 2005 at Sambhram Institute of Technology, Bangalore.
- Attended National Level Industry Interface Workshop on “Emerging Trends in HR Management for the Campus Selections” held at C.I.T. Gubbi, on 28<sup>th</sup> - 29<sup>th</sup> Oct 2005.

- Participated in the National Conference on “Futuristic Polymer Materials” on 23<sup>rd</sup> - 24<sup>th</sup> Sep 2005, organized by Rashtreeya Shikshana Samithi Trust, Bangalore and Department of Science and Technology, New Delhi at R.V.C.E. Bangalore.
- Attended one day workshop on “Application of Science in Engineering and Technology” organized by Ghousia College of Engineering, Ramanagaram, on 7<sup>th</sup> May 2005.
- Participated in state level one day workshop on “Teaching Methodology in Engineering Chemistry”, organized by S.D.M. College of Engineering and Technology, Dharwad and Forum of Chemistry Teachers in Engineering Colleges (Affiliated to VTU, Belgaum), on 11<sup>th</sup> Sep 2004 at S.D.M. College of Engineering and Technology, Dharwad.
- Participated in the seminar on “New Trends in Metal Finishing Including Effluent Treatment” held at IISC Bangalore on May 10<sup>th</sup> 2002.

#### Chair Person/Session Chair

- Served as a Resource Person for conducting a discussion session on “Facing NAAC Peer Team Visit” organized by Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli, held on Dec 19<sup>th</sup>, 2021.
- Chaired the session in the “International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020)” organized by Department of Mechanical Engineering & Chemistry, Dayananda Sagar College of Engineering, Bangalore on 17<sup>th</sup> & 18<sup>th</sup> Jan 2020.
- Chaired the session in the “National Conference on Recent Trends in Chemical Research” organized by Immaculate College for Women, Sankarapuram, Tamil Nadu on 7<sup>th</sup> Feb 2019.
- Chaired the session in the “National Conference on Recent Advances in Material Science” held during 5<sup>th</sup> Feb 2019, organized by Field Marshal K. M. Cariappa College, Madikeri.
- Chaired the session on Material Science in the “National Conference on Sustainable Engineering & Management” (NCSEM – 2017) held during 26<sup>th</sup> – 27<sup>th</sup> May 2017, organized by The Oxford College of Engineering, Bangalore – 68.
- Chaired the session on Material Science in the “International Conference on Smart Engineering Materials” (ICSEM – 2016) held during 20<sup>th</sup> – 22<sup>nd</sup> Oct 2016, organized by R V College of Engineering, Bangalore – 59.
- Chair Person in the International Conference on “Chemical and Environmental Research” (ICCER – 2015) organized by PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, on 17<sup>th</sup> December 2015.



- Chaired the session in the National Conference on “Advanced Functional Materials” (AFM – 2015) held on 4th – 5th Dec 2015, organized by Department of Chemistry, Dayananda Sagar College of Engineering in association with Dayananda Sagar University, Bangalore – 78.
- Chaired the session on Material Science in the National Conference on “Frontiers & Challenges in Chemistry” (FCC – 2013) held during 10th – 11th Oct 2013, organized by Department of Chemistry, Don Bosco Institute of Technology, Bangalore – 74.
- Chair Person for the Scientific Committee in the International Symposium on “Youth Against Cancer” organized by Carcinogenesis Foundation (USA) and Narain Sewa Sansthan, India on 30th – 31st Aug 2013 at Sindhi College, Bangalore.
- Chaired the session on “Phytochemistry and Natural Compounds” in “National Conference on Green Technologies, Fight Pollution” on 4th – 5th April 2012.

#### Achievements/Awards / Abroad visits / Professional Body Memberships

##### Achievements/Awards

- **KSCST IP Awards & Rewards 2021** under Faculty Category in appreciation & recognition of Contribution in the field of Intellectual Property Rights by Karnataka State Council for Science and Technology on 24th Aug 2021.
- **KSCST IP Awards & Rewards 2021** under University Category as a Nodal Officer in appreciation & recognition of Contribution in the field of Intellectual Property Rights by Karnataka State Council for Science and Technology on 24th Aug 2021.
- **Appreciation Letter** from ‘Honorable Vice Chancellor’, Davangere University, Davangere, on 03rd Nov 2020 for the hard work done as a committee member in framing unique, flexible and organized research frame work.
- **Best Research Publication Award – 2020 & 2021**, on the occasion of “Teachers Day Celebrations – 2020” organized by the Davangere University, Shivagangotri, Davangere.
- **Certificate of Excellence** by Researcher Academy, Elsevier for the successful completion of every module in Funding on 24th May 2020, Writing Skills & Book Writing on 28th June 2020, Fundamentals of Manuscript Preparation on 7th August 2020.
- **Reviewer Recognition Certificates** from Applied Organometallic Chemistry-Wiley, Electrochimica Acta-Elsevier, Journal of Materials Research and Technology- Elsevier, Journal of Radiation Research and Applied Sciences-Elsevier, Journal of Waste Management-Elsevier, Materials Today Proceedings-Elsevier.

- **Best Researcher Award**, awarded during “International Conference on Science, Engineering & Technology” (ICSET-2019) held on May 30 – June 01, 2019 at Tashkent, Uzbekistan organized by Society for Technologically Advanced Materials of India (STAMI) in collaboration with Samara University, Russia.
- **Researcher of the year**, awarded by Mindura LLC USA on 15th May 2019 during Education Excellence Awards 2019, International Awards for Teachers & Institutions at Bengaluru.
- **Distinguished Researcher Award**, awarded during “International Conference on Recent Trends in Science & Technology” (ICRTS -2017) held on July 12 – 14, 2017 at SSES Amt’s Science College, Nagpur.
- **Certificate of Appreciation**, given by Indian Red Cross Society in recognition of the outstanding efforts in organizing Voluntary blood donation camp held on Aug 04th 2016 at East West Institute Technology, Bangalore.
- **Best Paper Award** in “International Conference on Science & Technology for Sustainable Development” (ICSTSD - 2016) held during May 24-26, 2016 at Hotel Istana, Kuala Lumpur, Malaysia.
- **Certificate of Excellence** for the year 2015 – 2016 was given by East West Institute Technology, Bangalore.
- **Rashtriya Ekta Samman** awarded on 19th August 2013 at Delhi, on the eve of 70th Birth Anniversary of Late Shri Rajiv Gandhi.
- **Certificate of Excellence** for the year 2012 – 2013 was given by East West Institute Technology, Bangalore.
- **Senior Scientist Award** in “National Conference on Recent Advances in Nano Science and Technology” (NCRNT – 2013).
- **Outstanding Service Award (Silver Category)**, awarded on 2nd February 2013 at Madurai, by Indian Association for the Blind.
- **Best Faculty Chapter Award 2012** – received as a Secretary of East West Institute Technology ISTE Chapter.
- **Second Best Paper Award** in “National Symposium on Electrochemical Science and Technology” (NSEST-2012).

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|    | <ul style="list-style-type: none"> <li>➤ <b>Young Scientist Award</b> in “National Conference on Green Technologies, Fight Pollution” on 4th – 5th April 2012.</li> <li>➤ <b>Best guide award</b> for the year 2002 – 2003, was given by Gnana Deepa Academy, Devanahalli.</li> </ul>  |
| 2. | <p><b>Abroad Visits</b></p> <ul style="list-style-type: none"> <li>❖ Presented a paper titled “Synthesis, Characterization &amp; Applications of Nano metal oxides” at “<b>International Conference on Science, Engineering and Technology (ICSET – 2019)</b>” organized by, Society for Technologically Advanced Materials of India (STAMI) in collaboration with Samara University, Russia during May 30 – June 01, 2019 at Hotel Le Grand Plaza, Tashkent, Uzbekistan.</li> <li>❖ Visited Adama Science &amp; Technology University, Adama, Ethiopia &amp; Presented a paper entitled “<b>Multi Functional Applications of Metal Oxide Nano Particles</b>” as invited speaker on the 3<sup>rd</sup> International Research Symposium Organized by Adama Science &amp; Technology University (ASTU) from May 9- 11, 2019 at Adama, Ethiopia.</li> <li>❖ Visited Department of Chemistry, Physics &amp; Materials Science, Chulalongkorn University, Bangkok, Thailand on 20<sup>th</sup> January 2017 for during <b>International Conference on Advances in Science &amp; Engineering (ICASCE-2017)</b></li> <li>❖ Visited Materials Science Department, Chulalongkorn University, Bangkok, Thailand on 24<sup>th</sup> November 2016 for collaboration to organize <b>International Conference on Advances in Science &amp; Engineering (ICASCE-2017)</b>.</li> <li>❖ Presented a paper titled “Rare earth based novel <math>MgAl_2O_4</math> nanophosphor and its multifunctional applications for PCA, Super Capacitor &amp; WLEDs” was presented at “<b>International Conference on Science and Technology for Sustainable Development</b>” (ICSTSD – 2016) organized by Society for Technologically Advanced Materials of India (STAMI) in collaboration with Institute of Advance Technology (ITMA), Universiti Putra Malaysia (UPM); Malaysia, Malaysian Association of Solid State Sciences and Technology (MASS); and University of Peradeniya, Kandy, Sri Lanka at Hotel Istana, Kuala Lumpur, Malaysia on 24<sup>th</sup> – 26<sup>th</sup> May 2016. Visited Universiti Putra Malaysia, Malaysia.</li> <li>❖ Presented a paper titled “Facile green route for the synthesis of Iron-doped MgO nanoparticles by Phyllanthus Acidus: Structural, Photoluminescence and Photocatalytic activity” was presented at “<b>The 8<sup>th</sup> International Conference on Materials Science and Technology</b>” organized by National Metal and Materials Technology Center, Thailand at Bangkok, Thailand on 15<sup>th</sup> – 16<sup>th</sup> December 2014. Visited Chulalongkorn University, Bangkok, Thailand.</li> </ul> |

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| 3. | <b>Professional Body Memberships</b>  |
|    | <b>Honorary Rosalind Member</b> of London Journals Press, UV52609.  |
|    | <b>Life member</b> of “Society for Technologically Advanced Material of India” (STAMI), LM-CS - 0723.                     |
|    | <b>Life member</b> of “The Electrochemical Society of India” (ECSI), LM-140.  |
|    | <b>Life member</b> of “Indian Society for Technical Education” (ISTE), LM-54206.  |
|    | <b>Life member</b> of “Indian Society for Advancement of Materials and Process Engineering” (ISAMPE), L-1117.             |
|    | <b>Life member</b> of “Luminescence Society of India: Karnataka Chapter” (LSIKC), L-96.                                   |
|    | <b>Life member</b> of “Zero Waste Society of India” (ZWSI), LM-09   |
|    | <b>Fellow member</b> of “Society for Advancement of Electrochemical Science and Technology” (SAEST), F-1292, 2006 - 2008. |
|    | <b>Associate member</b> of “International Congress of Chemistry and Environment” (AICCE), A-1311, 2006 - 2007.            |

| Personal Details       |   |   |
|------------------------|---|---|
| <b>Gender</b>          | Male  |   |
| <b>Date of Birth</b>   | 22 <sup>nd</sup> April 1977   |   |
| <b>Contact details</b> | <b>Address for Communication</b>  | <b>Permanent address</b>  |
|                        | Dr. Nagaswarupa H. P.<br>Professor,<br>Department of Studies in Chemistry,<br>Shivagangothri,<br>Davangere University<br>Davangere- 577007<br>Karnataka – India | Nagaswarupa H. P. C/O<br>B. Nandeesh<br>Retd. PEO<br>Echanur Post<br>Echanur, Tiptur Tq<br>Tumkur Dist<br>Karnataka – India |

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