

FACULTY PROFILE

MUTTANAGOUD N. KALASAD

Associate Professor

Department of Studies in Physics

Qualification : M. Sc., Ph. D.

Areas of Specialization : Solid State Physics (Condensed Matter Physics)

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Vision

<< State your vision in 30-50 words >>

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	Ph. D.	Physics	Karnatak University, Dharwad, Dr. M. K. Rabinal	2010
2	M. Sc.	Solid State Physics	Karnatak University, Dharwad, Dr. M. K. Rabinal	2001
3	B. Sc.	PCM	Karnatak University, Dharwad	1999

Research Experience

Sl. No.	Designation	Institution/University	Funding Agency	Period
1	Raman Postdoctoral Fellow	Department of Materials Science and Engineering, University of Illinois at Urbana-Champaign, Urbana.	UGC New Delhi	One year (2017)
2	D. C. Pavate Visiting Fellowship	Cavendish Laboratory, University of Cambridge, UK.	Pavate Foundation & Karnatak University	2011

Professional Details (Academic/Research Experience)					
Sl. No.	Designation	Institution/University	UG/PG	From	To
1	Associate Professor	Davangere University	PG	May 2019	Till date
2	Associate Professor	SDM College of Engineering and Technology, Dharwad	UG	Feb 2014	May 2019
3	Assistant Professor	SDM College of Engineering and Technology, Dharwad	UG	April 2011	Feb 2014
4	Senior Lecturer	SDM College of Engineering and Technology, Dharwad	UG	Aug 2010	April 2011
5	Lecturer	SDM College of Engineering and Technology, Dharwad	UG	Feb 2008	Aug 2010
6	Lecturer	JSS College, Dharwad	UG	July 2001	July 2004

Areas of Research Interest:	
1.	Nanostructured Materials and Devices
2.	Conducting Polymer composites

Academic/Administrative responsibilities:	
1.	Chairman – Department of Studies in Physics.
2.	BOS - Chairman (PG & UG).
3.	BOE Chairman - PG 2020.
4.	Reviewer FOR ACS, IOP, Elsevier publications.
5.	Deputy Dear R & D - SDM College of Engineering and Technology, Dharwad. Nov 2015-Dec 2016
6.	Research Center Coordinator, SDM College of Engineering and Technology, Dharwad. (2018-19)

Research Projects:

Sl. No.	Title of the Project	Funding Agency	Project Budget	Period	Status
1.	Development of Semiconductor Alloy Nanocrystal Heterostructures and Devices (K-FIST L1)	VGST, Govt. of Karnataka	20 Lakh	2020-22	Ongoing
2.	Development of ZnO Nanoparticles as Low Cost Materials for Thin – Film Transistor Applications	VGST, Govt. of Karnataka	10 Lakh	2012-14	Completed

Research Publications:

a) International Journals

1.	Synergistic enhancement in the microelectronic properties of poly-(dioctylfluorene) based Schottky devices by CdSe quantum dots. M. Tahir, M N Kalasad et al. <i>Scientific Reports</i> . 10, 4828 (2020). (Nature Publishing Group).
2.	Extending the Spectral Range of Double-Heterojunction Nanorods by Cation Exchange-Induced Alloying. <i>Chemistry of Materials</i> . 31, 9307-9316 (2019). (American Chemical Society, US)
3.	Cadmium Selenide quantum dots: Synthesis, characterization and their humidity and temperature sensing properties with poly-(dioctylfluorene). Sensors and Actuators B: Chemical 285, 504-512 (2019). (Elsevier Publications)
4.	Biologically active nanocomposite of DNA-PbS nanoparticles: A new material for non-volatile memory devices. <i>Applied Surface Science</i> 427, 344-353 (2018)
5.	Size Tunable Near Infrared High-Quality PbS Quantum Dots. <i>Applied Mechanics and Materials</i> 490-491, 319-320 (2014) .
6.	Chitosan Capped Silver Nanoparticles used as Pressure Sensors. <i>IOSR Journal of Applied Physics</i> 5, 43-51(2014)
7.	Electrochemical Synthesis and Optical Properties of Organically Capped Silver Nanoparticles. <i>J. Alloys and Comp.</i> 562, 43-47 (2013)
8.	Facile Synthesis of Bioconjugated Fluorescent CdS Nanoparticles of Tunable Light Emission. <i>J. Phys. D: Appl. Phys.</i> 43, 305301 (2010)
9.	Fluorescent Quantum Dots. Nature Publishing House , (Research Highlight), DOI:10.1038/nindia.2010.101; 29 July 2010.
10.	Ambient Synthesis and Characterization of High-Quality CdSe Quantum Dots by an Aqueous Route. <i>Langmuir</i> 25, 12729 (2009)
11.	Tunneling conductivity in conducting polymer composites: a manifestation of chemical interaction. <i>J Phys. D: Applied Physics</i> 42, 65414 (2009)
12.	Formation of Electronic Junctions on Molecularly Modified Surfaces by Lift-and-Float Electrical Contacts. <i>Langmuir</i> 25, 3305 (2009)
13.	Temporal Evolution of Capped Cadmium Sulfide Nanoparticles. <i>Semiconductor Science and Technology</i> 23, 45009 (2008)

14.	Synthesis and Characterization of Polyaniline Rubber Composites. <i>Composites Science and Technology</i> 68, 1787 (2008)
b) National Journals	
1.	
c) International Conference	
1.	
d) National Conference	
1.	
2.	
3.	
Book Chapters Published:	
➤	Title :Quantum Dot Optoelectronic Devices April 2020, DOI: https://doi.org/10.1007/978-3-030-35813-6_9 Topic : (Quantum Dot Interfaces for Memristor) Authors : Sajeeda Shaikh, Rafiq Mulla, M. N. Kalasad and M. K. Rabinal DOI https://doi.org/10.1007/978-3-030-35813-6_9 Publisher : Springer Nature Switzerland AG, Switzerland, ISSN 2195-2167 (electronic)

Research Guidance Details (MPhil/PhD):				
Sl.No	Name of the Scholar	University	Registration month & Year	Research Area
1.	Sharath S.C.	Davangere University	December 2019	Nanomaterials
2.	Nagaveni G. H.	Davangere University	December 2019	Nanomaterials
3.	Maheshkumar	Davangere University	December 2019	Nanomaterials
4.	Nayana. I Sattigeri	Davangere University	December 2019	Nanomaterials

Conference/ Workshops/Trainings attended/organized:	
International/National Conferences:	
1.	
2.	

Workshops/Seminars/Symposium Attended:
1.
2.
Training Programme :
1.

Achievements/Awards / Abroad visit / Professional Membership	
1.	RAMAN Fellowship for Post Doctoral Research in USA 2015-16, UGC
2.	Dr. D.C. Pavate Visiting Fellowship to University of Cambridge-2011, UK

Personal Details		
Gender	Male	
Date of Birth	01-02-1976	
Contact details	Address for Communication	Permanent address
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