CV

Dr. KOTRESH SAVANUR

M.Sc., B.Ed., KSET, Ph.D (Physics)

Assistant Professor

Department of Physics
Dayananda Sagar College of Arts, Science and Commerce, SM Hills, Kumaraswamy Layout, Bengaluru- 560078, Karnataka State, India.

Email: ksvnrphy86@gmail.com
ksvnr86@gmail.com

Contact no: 9845484901
7892849439

Personal Information:

Name : **Dr. Kotresh S**

Date of Birth : 01-August-1986

Gender : Male

Nationality : Indian

Marital Status : Single

Languages Known : Kannada
English
Telugu
Hindi

Correspondence Address

Dr. Kotresh S, S/O Kotrappa H

Gnana Bharathi nagar, Mariyappanapalya Near Bangalore University, Bangalore-560056

Area of Research :

Specialization: Condensed Matter Physics (CMP)

Research on nanocomposite are mostly focused on polymer-based nano-composites (polymer+metal oxides/biopolymers/graphene oxide composites) for Electrical, Optical, and Magnetic studies and for humidity and LPG sensor device fabrication and their applications.

Educational Qualification :

- **2021 Ph.D in Physics,** from Visvesvaraya Technological University (VTU), Belagavi, Karnataka state. India
- **KSET 2018 eligibilty for Assnt. Professor.**
- **2012 M.Sc (Physics):** 69% (First Class) (CMP)
- **2010 B.Ed (Physics and Mathematics),** 73% (First class).
- **2008 B.Sc :** Physics, Chemistry, Mathematics (PCM), 65% (First Class)

Teaching and Research experiences :

Presently employed as an Assistant Professor in the Dept. of Physics, DSCASC, Dayananda Sagar Institutions, KM Layout, Bangalore

5 years full time research experience (Ph.D)

3 years M.Sc., teaching experience at Bangalore University

4 months-Visiting faculty as a Assistant Professor at Dept. of Physics, Dayananda Sagar University, Bangalore

Scholarships & awards :

- **1/2019-** Third cash prize award for paper presentation (poster)
- **12/2017-** First (1st) Prize award for paper Presentation (Oral)
- **3/2017-** Second (2nd) Cash Prize award for paper Presentation (Poster)
- **12/2015-** Third (3rd) Cash Prize award for paper Presentation (Poster)
- **1/2015-** First (1st) Cash Prize award for paper Presentation
- **07/2014 – 12/2015** Senior Research Fellow @UGC
- **1/2013 – 06/2014** Project Fellow @UGC

Hobbies :

- Reading Books and News Paper
- Watching TV and listening to music
- Sports-Chess, Cricket, Carom and badminton

Skills :

- Presentation skill
- Leadership skill
- Communication skill

Professional membership :

- Life time member of Nanoscience & Nanotechnology Society, India (Membership No: NN103)
- Life time member of Nano and Molecular Society (NMS), Farah, Mathura (U.P) India.

Citation report:

https://scholar.google.com/citations?user=vXVpP7UAAAAJ&hl=en

Citation indices	All	Since 2016
Citation	339	339
h- index	10	10
i10- index	11	11

Publications :

Sl.No	Title	Author	Journals/Publisher details	Year	Volume	Page no	ISSN
01	Fabrication of low cost p-n heterostructure room temperature LPG sensing properties of Polyaniline-Copper ferrite composite	**S Kotresh,** Aashish S Roy, Ameena Parveen, Nacer Badi, A. Murali	J Mater Sci: Mater Electron (Springer). Impact factor: 2.8	2023	34	218	0957-4522
02	Synthesis, characterization and AC Studies on Magnesium ferrite/Oxide	**S Kotresh,** Aashish S Roy, A. Murali, Ameena Parveen,	J Mater Sci: Mater Electron (Springer). Impact factor: 2.8	2022	33	12976-12983	0957-4522

	($MgFe_2O_4$- Nb_2O_5) nanocomposite at room temperature	N Anilkumar, H G Rajprakash, Nacer Badi					
03	Optimised polyaniline-cadmium ferrite nanocomposite: synthesis, characterization and alternating current response	**S. Kotresh,** Y.T. Ravikiran, S.C.Vijayakumari, Ch.V.V. Ramana, A.S. Anu and K.M. Batoo	Polymer Bulletin (Springer) Impact factor: 2	2017	75	2475-2490	1436-2449
04	Solution based-spin cast processed LPG sensor at room temperature	**S. Kotresh,** Y.T. Ravikiran, S.C.Vijayakumari, Ch.V.V. Ramana and K.M. Batoo	Senors and Actuators A: Physical (Elsevier) Impact factor: 2.9	2017	263	687-692	0924-4247
05	Humidity sensing performance of spin coated polyaniline-carboxymethyl cellulose composite at room temperature	**S. Kotresh,** Y.T. Ravikiran H.G. Raj Prakash, CH.V.V. Ramana S.C.Vijayakumar and S. Thomas	Cellulose (Springer) Impact factor: 4.2	2016	23	3177-3186	0969-0239
06	Interfacial p-n heterojuntion of polyaniline-nickel ferrite nanocomposite as room temperature liquefied petroleum gas sensor.	**S. Kotresh,** Y.T. Ravikiran, S.C.Vijayakumari and S. Thomas	Composite Interfaces (Taylor and francies) Impact factor:1.08	2017	24	549-561	0927-6440
07	Polyaniline-cadmium ferrite nanostructured composite for room-temperature liquefied petroleum gas sensing.	**S. Kotresh,** Y.T. Ravikiran, S.K. Tiwari and S.C. Vijaya Kumari	Journal of Electronic Materials (Springer) Impact factor:1.579	2017	46	5240-5247	0361-5235
08	Solution-based spin cast processed polypyrrole/niobium pentoxide nanocomposite as room temperature liquefied petroleum gas sensor	**S. Kotresh,** Y.T. Ravikiran, S.C. Vijaya Kumari, T. Chandrasekha, CH.V.V.Ramana and S. Thomas	Materials and Manufacturing Processes (Taylor and francies) Impact factor:2.23	2016	13	1976-1982	ISSN:1042-6914
09	Liquid petroleum gas sensing performance of polyaniline-carboxymethyl cellulose composite at room temperature	Y.T. Ravikiran, **S. Kotresh,** S.C.Vijayakumari and S. Thomas	Current Applied Physics (Elsevier) Impact factor:1.971	2014	14	960-964	1567-1739
10	Polyaniline-niobium pentoxide	**S. Kotresh,** Y.T. Ravikiran,	Advanced Materials letters	2015	6	641-645	0976-3961

	composite as humidty sensor at room temperature	S.C.VijayakumariH.G. Raj Prakash, and S. Thomas	(VBRI Press) Impact factor:1.46				
11	Polyaniline-Titanium dioxide composite as humidty sensor at room temperature	**S. Kotresh,** Y.T. Ravikiran, H.G. Raj Prakash and S.C.Vijayakumari	Nanosystems: Physics, Chemistry, Mathematics Impact factor: 0.7	2016	7	732-739	2305-7971
12	AC conductivity studies of P-toluenesulfonic acid doped polyaniline-sodium alginate composites	Y.T. Ravikiran, **S. Kotresh**, S.C.Vijayakumari, K.C. Sajjan, B.S. Khened and S. Thomas	Cellulose Chemistry and Technology Impact factor: 0.833	2015	49	21-28	0576-9787
13	Study of alternating current conduction mechanism in polypyrrole-magnesium ferrite hybrid nanocomposite through correlated barrier model.	R. Megha, **S. Kotresh,** Y.T. Ravikiran, CHVV. Ramana S.C.Vijaya Kumari, and S.Thomas	Composite Interfaces (Taylor and francies) Impact factor:1.01	2017	24	55-68	0927-6440
14	Carboxymethyl cellulose: an efficient material in enhancing alternating current conductivity of HCl doped polyaniline	R. Megha, Y.T. Ravikiran, **S. Kotresh,** S.C.Vijaya Kumari, H.G. Raj Prakash and S.Thomas	Cellulose (Springer) Impact factor: 4.2	2018	25	1147-1158	0969-0239

Presentations :

Conferences: International/National

Sl. No	Title	Author	Venue of the conferences	Year
01	AC conductivity studies of P-toluenesulfonic acid doped polyaniline-sodium alginate composites	**S. Kotresh,** Y.T. Ravikiran, S.C.Vijayakumari, K.C. Sajjan, B.S. Khened and S. Thomas	International Conference on Advanced Polymeric Materials (ICAPM 2013) held at Mahatma Gandhi university, Kottayam, Kerala	11-13, October 2013
02	Polypyrrole-Niobium pentoxide Composite as Liquid Petroleum Gas Sensor at Room	**S. Kotresh,** Y.T. Ravikiran, H.G. Raj Prakash, S.C. Vijaya kumari,	Third International Conference on Polymer Processing and Characterization (ICPPC –	11-13 October 2014

	Temperature	S. Thomas	2014) held at Mahatma Gandhi university, Kottayam, Kerala	
03	Polyaniline -Niobium pentoxide Composite as Liquid Petroleum Gas Sensor at Room Temperature	**Kotresh Savanur,** Y.T. Ravikiran, H.G. Raj Prakash, S.C. Vijaya kumari, L.P. Babureddy and S. Thomas	Second International Conference on Nano structured Materials and Nanocomposites (ICNM 2015) held at Mahatma Gandhi university, Kottayam, Kerala	19-21, December 2014
04	Polyaniline-Titanium dioxide composite as humidity sensor at room temperature	**S. Kotresh,** Y. T. Ravikiran, H. G. Raj Prakash, S. C. Vijaya Kumari, and S. Thomas	Nano Materials and Nanotechnology (NANO 2015), held at K.S. Rangasamy College of Technology, Tiruchengode, Tamilnadu, India.	7-10, December, 2015.
05	Polypyrrole-Titanium dioxide composite as humidity sensor at room temperature	**S. Kotresh,** Y. T. Ravikiran, H. G. Raj Prakash, S. C. Vijaya Kumari and S. Thomas	Third International Conference on Nano structured Materials and Nanocomposites (ICNM 2015) held at Hindustan College of Science and Technology, Farah, Mathura, Uttara Pradesh, India.	12-14, December 2015.
06	Dielectric Studies of Manganese (II) Sulphate doped Poly(vinyl alcohol) films at room temperature	**S. Kotresh,** L.P Babureddy, Y.T. Ravikiran, and H.G. Raj Prakash	International conference on smart materials and technologies for emerging electronics-IC-SMTEE-2016 Organized by Sahyadri college of Engineering and Management, Mangaluru Karnataka, India	19th and 20th February, 2016
07	AC electrical and optical studies on copper sulphate doped poly (vinyl alcohol)films at room temperature	T. Chandrashekar, Y.T. Ravikiran, and **S. Kotresh**	International confernceon smart materials and technologies for emerging electronics-IC-SMTEE-2016 Organized by Sahyadri college of Engineering and Management, Mangaluru Karnataka, India	19th and 20th February, 2016
08	Alternating current conduction studies on polyaniline-titanium dioxide hybrid nanocomposite at room temperature.	R. Megha, **S. Kotresh**, Y.T. Ravikiran, and S.C. Vijaya Kumari.	International confernceon smart materials and technologies for emerging electronics-IC-SMTEE-2016 Organized by Sahyadri college of Engineering and Management Mangaluru	19th and 20th February, 2016
09	Room temperature AC conduction studies on biodegradable starch-poly (vinyl alcohol) blends	**S. Kotresh,** H. Kirankumar, T. H. Madhusudana, T. Chandrashekar and Y. T. Ravikiran and H.G. Rajprakash	International Conference on Nanotechnology (ICnano-2015) held at VTU- Centre for PG studies, Muddenahalli, Chikkaballapura, Karnataka, India.	21-23, April 2016
10	Humidity sensing performance of spin	**S. Kotresh,** L.P. Babu Reddy	Second International conferences on advanced materials for power	11-13 November, 2016

	coated polyaniline-nickel ferrite hybrid nanocomposite at room temperature	Y.T. Ravikiran, H. G. Raj Prakash, CH.V.V. Ramana, S.C. Vijayakumari and S. Thomas	engineering [ICAMPE 2016] Organized by International and inter university centre for nanoscience and nanotechnology (IIUCNN) Mahatma Gandhi University, Kottayam, Kerala, India.	
11	Study of AC conduction mechanism in polypyrrole-magnnesium ferrite nanocomposite through CBH model	Y.T. Ravikiran, **S. Kotresh,** S.C. Vijayakumari, and S. Thomas	Second International conferences on advanced materials for power engineering [ICAMPE 2016] Organized by International and inter university centre for nanoscience and nanotechnology (IIUCNN) Mahatma Gandhi University, Kottayam, Kerala, India.	11-13 November, 2016
12	Humidity sensing performance of spin coated polyaniline-zinc ferrite nanocomposite at room temperature	**S. Kotresh,** Y.T. Ravikiran, H. G. Raj Prakash, CH.V.V. Ramana, S.C. Vijayakumari and S. Thomas	International Conference on Smart Materials & Applications (ISMA-2016), organized by Department of Physics, Faculty of Engineering & Technology (ITER) SIKSHA 'O' ANUSANDHAN UNIVERSITY, BHUBANESWAR-751030, Odisha, INDIA	15-17 December, 2016

Awards :

Sl. No	Title	Author	Venue of the conferences	Year	Awards
01	Polyaniline-niobium pentoxide composite as gas sensor at room temperature	**S. Kotresh,** L.P. babureddy Y. T. Ravikiran, H. G. Raj Prakash, S. C Vijaya Kumari and S. Thomas	Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka conference on "Science and Society", held at veerashaiva college, Bellari, Karnataka State.	16th and 17th, January 2015	Awarded **First Cash Prize (1st)** for poster paper presentation
02	Polypyrrole-Titanium dioxide composite as humidity sensor at room temperature	**S. Kotresh,** Y. T. Ravikiran, H. G. Raj Prakash, S. C. Vijaya Kumari and S. Thomas	Third International Conference on Nano structured Materials and Nanocomposites (ICNM 2015) Hindustan College of Science and Technology, Farah, Mathura, Uttara Pradesh, India.	12-14, December 2015	Awarded **Third Cash Prize (3rd)** for poster paper presentation
03	Spin coated polyaniline-yttrium nanocomposite as resistive type humidity sensor at room temperature	**S. Kotresh,** L.P. babureddy Y. T. Ravikiran, H. G. Raj Prakash, S. C. Vijaya Kumari and S. Thomas	KSTA National Conference on "Impact of Science and technology on society and economy" jointly organized by Karnataka Science and Technology Academy (KSTA), DST, Govt. of Karnataka and Vijayanagara Sri Krishnadevaraya University, Ballari, Karnataka	8-9, March 2017	Awarded **Second Cash Prize (2nd)** for poster paper presentation

	04	Solution based-spin cast processed LPG sensor at room temperature	**S. Kotresh,** L.P. babureddy Y. T. Ravikiran, H. G. Raj Prakash, S. C. Vijaya Kumari and S. Thomas	International Conference on "Applied Nanotechnology and Nanoscience" (ICANN 2017) organized by Tuljaram Chaturchand College of Arts, Science and commerce, Baramati Post Graduate Department of Physics and Nano and Molecular Society (NMS), India.	7-9, December, 2017	Awarded **First Prize (1st)** for Oral paper presentation	
	05	Solution based-spin cast processed LPG sensor at room temperature	**S. Kotresh,** Y. T. Ravikiran, H. G. Raj Prakash, and S. Thomas	4th International Conference on Physics of Materials and Materials Based Device Fabrication (4th ICPM-MDF-2019) organized by Department of Physics, Shivaji University, Kolhapur, India.	January 10-11, 2019	Awarded 3rd Prize for Poster Presentation	

Workshops/ seminars participated :

1. Participated in the sixth DAE-BRNS workshop cum meeting on EXFOR Compilation of Nuclear data organized by the department of physics, Bengalore University, Bengalore in association with Nuclear of atomic energy, Mumbai held at Bengalore University during 20-24, January 2015, Karnataka, India.

2. Participated in the National Workshop on Advances in Instrumental Techniques for nanomaterial characterization Organized by International and inter university centre for nanoscience and nanotechnology (IIUCNN) Mahatma Gandhi University, during March 7th and 8th .2014, Kottayam, Kerala, India.

3. Participated in the INUP Familiarization workshop on Nanofabrication Technologies, conducted at the centre for Nanoscience and engineering, Indian institute of science, Bengalore, from 28-30, January-2015, Karnataka, India.

4. Participated in the university level workshop on "Physics practicals" organized by the department of PG studies in Physics, government science college (VTU-RRC), Chitradurga-577501, Karnataka.

5. I have attended inter university accelerator center (IUAC-2014) one day programme held at VTU-University campus belgaum, during 18th, November, 2014.