


FACULTY PROFILE

NAME	Dr VANAJA K A	
DESIGNATION	ASSISTANT PROFESSOR	
QUALIFICATION	M.Sc, B.Ed, SET, NET, PhD	
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POSITIONS HELD IN COLLEGE

- IQAC CHAIR PERSON
- WEBSITE COMMITTEE MEMBER

TEACHING INTERESTS

PHYSICAL CHEMISTRY ,INORGANIC CHEMISTRY

RESEARCH AREAS

MATERIAL SCIENCE

JOURNAL PUBLICATIONS

	TITLE	NAME OF JOURNAL / VOL. NO / ISSUE NO / PAGE NOS	ISSN NO	MONTH / YEAR
1.	Transition path to a dense efficient-packed post-delafoosite phase. Crystal structure and evolution of the chemical bonding	Journal of Alloys and compounds volume 867,25 june2021,159012	ISSN: 0925-8388	2021
2.	Fast UV sensing properties of n-ZnO nanorods/p-GaN heterojunction	Sensors and Actuators A: Physical 242, 116-122(2016).	ISSN 9244247	2016

3.	Growth of ITO thin films on polyamide substrate by bias sputtering,	Materials Science in Semiconductor Processing, 13, 64 (2010)	ELSEVIER 13698001	2010
4	Effect of Oxygen intercalation on the properties of sputtered CuYO ₂ for potential use as p-type transparent conducting films	Bulletin of Materials Science 31(1), 49 (2008	SPRINGER 12034	2008
5	Pulsed Laser Deposition of p-type γ -AgGaO ₂ thin films	Thin Solid Films 516 (7), 1426 (2008	ELSEVIER 0040-6090	2008
6	Synthesis of ZnO nanoparticles by hydrothermal method	, Proc. SPIE Vol. 6639, (Sep. 2007)	0277-786X	2007
7	Transparent p-AgCoO ₂ /n-ZnO Diode Heterojunction Fabricated by Pulsed Laser Deposition	Thin solid film 515, 7352 (2007)	ELSEVIER 0040-6090	2007
8	p-type electrical conduction in γ -AgGaO ₂ delafossite thin films	, Applied Physics Letters 88, 212103 (2006)	0003-6951	2006
9	Nuclear Quadrupole Resonance Studies of Transparent Conducting Oxides	Solid State Nuclear Magnetic Resonance 26, 209 (2004)	0926-2040	2004
10	Photoacoustic investigations on thermal diffusivity of CuGa _{1-x} Fe _x O ₂	Semiconductor Science and Technology 18, 693(2003)	13616641	2003
11	P-type oxides for use in transparent diodes	Thin Solid Films 411, 119 (2002)	ELSEVIER 0040-6090	2002
12	P-type conductivity in the delafossite Structure,	Int J. Inorganic Materials 3, 265(2001)	14666049.	2001

CONFERENCE PUBLICATIONS

SL.NO.	TITLE	NAME OF CONFERENCE	VENUE, MONTH / YEAR
1.	Effect of oxygen intercalation on the properties of sputtered CuY(Ca).02O2 p-type transparent conducting oxides	International conference on Materials for advanced technology ICMAT 2005	2005
2.	Transparent Electronics	Invited talk International Conference on Optoelectronic materials and thin films for advanced technology, OMTAT-2005	2005
3.	Transparent p-AgCO ₂ /n-ZnO junction fabricated by Pulsed Laser Deposition	DAE-BRNS 3 rd National conference PLD 2005	2005
4.	Transprent p-AgCoO ₂ /n-ZnO pn junction	Photonics 2004	2004
5.	Electrical and optical properties of a-AgGaO ₂ synthesised by hydrothermal reaction	Solid state symposium 2004	2004
6.	rf magnetron sputtered calcium doped copper yttrium oxide p-type transparent semiconductor	DAE solid state symposium, Gowaliar, December 2003	2003
7.	Thermal Charcteristaion of CuGa _{1-x} Fe _x O ₂ using open photo-acoustic cell	Asia-Pacific optical and wireless conference Nov 2003, Whuan, China	2003
8.	NMR Relaxation Study of the p-Type Transparent Conductor CuYO ₂ :Ca	<i>March Meeting of the American Physical Society, Indianapolis, IN, March 2002. (B23.011)</i>	2002
9.	NMR and NQR Studies of CuMO ₂ -based Transparent p-Type Conductors	March Meeting of the American Physical Society, Seattle, WA, March 2001. (E30.006)	2001
10.	P-type transparent CuGaFeO ₂ thin films,	ACS meeting 2001, Seattle, WA	2001
11.	P-type oxides for use in transparent diodes	International symposium on Transparent Oxide thin films for electronics and optics, Tokyo, Japan (2001)	2001

BOOKS AS AUTHOR/EDITED/CHAPTERS/REVIEWS

SL.NO	TITLE	AUTHOR NAMES	ISBN NO.	MONTH/ YEAR
1.	Nanostructured Metal Oxides and Devices One-Dimensional ZnO Nanostructure: Growth & Device Applications 177-210. (2020) Springer,Singapore	LS Vikas, KA Vanaja, MK Jayaraj	978-981-15-3314-3	2020

OTHER PROGRAMMES ATTENDED

SL.NO	NAME OF THE PROGRAMME	NAME OF THE ORGANISER & SPONSORING AGENCY	VENUE & DATE	LEVEL *
1	REFRESHER COURSE ON FOUNDATIONS OF PHYSICAL CHEMISTRY AND ITS APPLICATIONS	INDIAN ACADEMY OF SCIENCES	NAVI MUMBAI 15-12-2017 TO 30-12-2017	
2	ORIENTATION PROGRAMME	UGC	KANNUR UNIVERSITY 14-11-2018 TO 11-12-2018	A
3	SWAYAM ARPIT ONLINE REFRESHER COURSE IN CHEMISTRY FOR HIGHER EDUCATION	MHRD 16 -12-2020	SRI GURU TEGH BAHADUR, KHALSA COLLEGE, UNIVERSITY OF DELHI	A
4	ONLINE REFRESHER COURSE ON MANAGING ONLINE CLASSES AND CO-CREATING MOOCs	MINISTRY OF EDUCATION, PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING 5-19 AUGUST 2021		A+

