

STAFF PROFILE (2001 – till date)
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Name : M.PREMA RANI
Designation : Associate Professor in Physics
Date of Entry into Service : 20/06/2001
E-mail : premaakumar91@gmail.com
Mobile (Optional) :
Education : M.Sc., M.Phil., M.Ed., Ph.D.
Areas of specialization : Condensed Matter Physics

Projects undertaken

Title of the Project	Name of the funding Agency	Duration	Completed/Ongoing	Amount	Remarks
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Seminars Organized

Title of the Seminar/Conference/Workshop	Date	Sponsoring Agency	National/State/International	Co-ordinator/Convener
Progress in Condensed Matter Physics.	07/01/2015	UGC	State	Convener
International Women's day Celebrations-2015	06/03/2015			Convener
Materials for Technological Applications	11/01/2019	UGC	National	Convenor

Seminars, Workshop and Conferences Attended

Title of the Seminar/Conference/Workshop	Date	Sponsoring Agency	National/State/International	Organization in which attended
Computer simulation in Physics	Feb 4 & 5, 2002	UGC-DRS	State	Madurai Kamaraj University
Short term course in solid state physics one,two, three dimensions.	Feb 7-9, 2002	JNASR, Bangalore	State	American college.
Photoacoustics in condensed matter physics, NDT	Feb 8 & 9, 2004	UGC-DRS	State	Madurai Kamaraj University
The principles and practices of powder x-ray diffraction	May 30 to June 2, 2005	UGC	National	CECRI-Karaikudi,
Condensed matter physics	Feb 22, 23,2006	UGC	National	Yadava college, Madurai
Emerging trends in physics	August 30-31, 2007	UGC	National	JayarajAnnapackiam college for women, Periyakulam.
Technologically important crystalline and amorphous solids (TICAS-2012)	March 2, 3, 2012	BRNS,CSIR, DST	National	Kalasalingam university, Krishnanakoil, Madurai.
Emerging trends in Physics	Feb21,22, 2013	UGC	International	St.Joseph'sArts&Science College, Cuddalore
Technologically important crystalline and amorphous solids (TICAS-2013)	March 1, 2, 2013	CSIR,DAE, DST	National	Kalasalingam university, Krishnanakoil, Madurai.
Current trends in Crystal growth and Solar Energy	Jan 22 nd 2013	UGC	National	Sri Meenakshi Govt. College for Women, Madurai.
Technologically Important Crystalline and Amorphous Solids (TICAS-2014)	Feb 28, March1, 2014	DAE(BRNS), DST	National	Kalasalingam university, Krishnnankoil, Madurai.
Competence Building Programme	Feb 6 th & 7 th , 2015	UGC		The Madura College Madurai
Recent trends in Material Science and Applications	Jan 6 th 2017	UGC	International	Sri Meenakshi Govt. College for Women, Madurai.
Nanotechnology the fruition of Science	Feb 15 th & 16 th 2017	SERB-DST	International	Nesamony memorial Christian College, Marthandam
International Conference on Emerging Trends and Challenges - 2018	Dec 28 th 2018		International	NPR Arts and Science college, Natham. Dindigul

Books Published:

Title of the Book Published	ISBN No.	Publisher if any	Year of Publishing	Authored/Edited
Metal & Alloy bonding: An Experimental analysis	978-1-4471-2203-6	Springer	2012	Co-Author

Research Publications:

S.No.	Title of the Journal	ISSN No. if any	Volume No. & Page No. if any	Year	International/National/State	Peer reviewed/ Non-Peer reviewed	Impact factor/h-index
1.	Journal of Physics: Condensed matter (IOP)	0953-8984	Vol. 19 p.266221I	2007	International	Peer-reviewed	2.223
2.	Journal of Alloys and Compound, (Elsevier)	0925-8388	Vol. 431 p.121-129	2007	International	Peer-reviewed	2.407
3.	The Open Crystallography journal, (Bentham Open, USA)	1074-1542	Vol. I p.64 – 68	2008	International	Peer-reviewed	0.479
4.	Defect and Diffusion Forum, (Trans Tech pub., Switzerland)	DOI:10.4028	Vol. 278 p. 33-44	2008	International	Peer-reviewed	0.31
5.	Z.Naturforsch. (Germany)	0340-4811	Vol.64a p. 1 – 9	2009	International	Peer-reviewed	0.908
6.	Materials Science Forum (Trans Tech publications, Switzerland)	ISBN-13: 978-3-03785-012-1	Vol. 671 p. 153-163	2011	International	Peer reviewed	0.483
7.	Journal of Materials Science Materials in Electronics	DOI:10.1007/s10854-013-1654-8	Vol. 25(2) p.1654-8	2013	International	Peer reviewed	1.97
8.	Roots International journal of multidisciplinary researches	2349-8684	Vol.1, N0.1 p.1-8	2014	International	Peer reviewed	0.811
9.	Materials Research Foundations, Novel Ceramic materials	2471-8890	Vol. 2 p.69-80	2016	International	Peer reviewed	0.29
10.	Materials Research Foundations, Novel Ceramic materials	2471-8890	Vol. 2 p.163-176	2016	International	Peer reviewed	0.29

11.	Materials Research Foundations, Contemporary dielectric materials	2471-8890	Vol. 7 p.128-144	2016	International	Peer reviewed	0.29
12.	Research and reviews: Journal of material Sciences	e-ISSN: 2321-6212, p-ISSN: 2347-2278	Vol 5, Issue 3 p no. 75 -81	April 2017	International	Peer-reviewed Peer-reviewed	0.57
13.	International Journal of latest trends in Engineering and technology	e- 2278-621X, p-2319-2778	P no. 128-131	2017	International	Peer-reviewed	0.685
14.	International Journal of latest trends in Engineering and technology	e- ISSN:2278-621X, p- ISSN: 2319-3778	pp.169-173	2017	International	Peer-reviewed	0.685
15.	International Journal of latest trends in Engineering and technology	<i>e-ISSN:2278-621X, p-ISSN: 2319-3778</i>	pp. 179-185	2017	International	Peer-reviewed	0.685
16.	Journal of Material Sciences & Engineering	2169-0022	Vol 7 p.no.1-7	2018	International	Peer-reviewed	5.447
17.	Physica B: Condensed Matter	//doi.org/10.1016/j.physb.2018.05.037	545,p .no.135-140	2018	International	Peer-reviewed	1.453

Research Publications in Conferences:

S.No.	Title	ISBN No.	Volume No. & Page No.	Year	International/ National/State
1.	Bonding in CoAl and NiAl metal alloys using multipole and MEM techniques,			2006	State
2.	Electronic structure of Aluminium with iron impurities analysed using multipole and MEM techniques		OP10 - p.29.	2007	National
3.	Synthesis and structural charecterisation of nano NiO and	978-81-921249-4-0.	pp.61.	2012	National

	NiFe ₂ O ₄ (Technologically important crystalline and amorphous solids (TICAS-2012))				
4.	Synthesis and charecterisation of CdO and Al doped CdO nanocrystals” (Technologically important crystalline and amorphous solids (TICAS-2012))	978-81-921249-4-0.	pp.17.	2012	National
5.	Synthesis and electron density analysis of nano semiconducting systems on Zr _{1-x} Mn _x O ₂ (Emerging trends in Physics-2013(ICEPT 2013))	978-81-8209-353-9.	pp.239	2013	International
6.	Synthesis and electron density analysis of NiO:Fe (Technologically important crystalline and amorphous solids (TICAS-2013))	978-81-921319-0-0.	pp.71	2013	National
7.	Electronic bonding analysis on dilute doping of Iron in Nickeloxide nanocrystals (Technologically important crystalline and amorphous solids (TICAS-2014))	978-81-921319-4-8	pp.93	2014	National
8.	Optical, Electronic and magnetic analysis of Cu doped NiO nanopowders (Recent trends in material science and applications)	978 8193314029	pp.46	2017	International
9.	Structural analysis of Dy doped ZrO ₂ nanostructures synthesized by sol-gel process (Recent trends in material science and applications)	978 8193314029	pp.56	2017	International
10.	Preparation & characterization of Cu doped Hap for biomedical applications (Nanotechnology the fruition of Science)		pp.77	2017	International
11.	Characterisation of Ni doped Hap nanopowders synthesized bysolgel method. (Nanotechnology the fruition of Science)		pp.85	2017	International
12.	Phase and optical analysis of synthesized Dysprosium doped Zirconia (Nanotechnology the fruition of Science)		pp.88	2017	International
13.	Structural, Optical And Antimicrobial Activity Of Mg Doped Hap Synthesized By Solgel Method For Biomedical Applications	978-81-909344-6-6	pp.01	2018	International

Research Activities

Degree	No. Awarded	No. Submitted	No. Guiding
M.Phil.,	13	--	02
Ph.D.,(Part-time)	--	--	02
Ph.D. (Full-time)	--	--	--

Details of Invited Lecture / Resource Person

Place	Date	Sponsoring Agency	Topic	Audience type	International/National /State Level
Vellammal college of Engineering & Technology, Madurai	24/08/2015	---	Crystal growth techniques	Students of I year B.E.	---
Sermathai Vasan college for Women	09/08/2017	----	Bio matarials – an Introduction	UG Students	----

Academic council/Board of Studies Member

Institution	For a period of	Dept.
Yadava Women's College, Madurai	2014-2015	Physics
Sri Meenakshi Govt. College for Women, Madurai.	2016-2017	Physics
Sri Meenakshi Government College for Women (Autonomous), Madurai -625002.	2017- 2018	Physics

Honours Achieved

Agency	Recognition IN/National/State	Cash award if any(Amount)	For the service of
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Service in Extra Curricular Activities (NSS/NCC/AEEP/YRC/MCCA/Club etc.,)

Whether NSS/NCC/AEEP/YRC	Period
Convenor of Einstein Club, The Madura College, Madurai	2014-2015
Convenor of PHYSOTSAV, Physics Dept.Club activites	2016-2017
Coordinator of Extension activities of Physics Dept.	2016-2017

Reviewer/editor of a journal

Title of the Journal	ISSN No. if any	International/ National/State	Impact factor/h index
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Details of Orientation and Refresher attended

Orientation/Refresher	University/College/Institute at which attended	Duration	
Orientation course	Academic Staff College, Madurai Kamaraj University, Madurai -625 021.	27/08/2003	23/09/2003
Refresher course	Academic Staff College, Madurai Kamaraj University, Madurai -625 021.	09/02/2005	01/03/2005
Refresher course	Academic Staff College, Madurai Kamaraj University, Madurai -625 021.	15/11/2007	05/12/2007
Refresher course	Academic Staff College, Madurai Kamaraj University, Madurai -625 021.	03/11/2009	23/11/2009

Any Other Information:

Nil