

Resume



Name : Dr. Vimal Sharma
Designation : Associate Professor
Department : Physics & Photonics Science
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Other Profile Links

Research Gate Link :

Personal Web Link :

Google Scholar Link :

Research Profile

Research Interests : Carbon based nanocomposites, Nanothermites and CNT/metal oxide composites for gas sensing

Brief Research Profile :

Qualification

Name of the Degree	Year Of Passing	Institute/University
B. Sc. (NM)	1997	H.P. University Shimla
M. Sc. (Physics)	1999	H. P. University Shimla
M. Phil. (Physics)	2001	H. P. University Shimla
Ph.D (Physics)	2008	H. P. University Shimla

Publications

Year	Journal	Publication	Indexed In
2006	Z. Phys. Chem.	Dielectric relaxation studies of binary mixtures of Ethanol and Tetramethylurea in benzene solution from microwave absorption data.	-- SCOPUS
2007	Z. Naturforsch A	Dielectric relaxation study of Ethanol in benzene from microwave absorption data	-- SCI
2007	Indian J. Pure & Appl. Physics	Dielectric relaxation study of binary mixtures of Ethyl alcohol and N, N-Dimethylformamide in benzene solution from microwave absorption data	-- SCI(E)
2008	Z. Naturforsch A	Dielectric relaxation studies of binary mixtures of Ethanol and Chlorobenzene in benzene solution from microwave absorption data	-- SCI
2008	Indian J. Pure & Appl. Phys	, Dielectric relaxation studies of binary mixtures of Ethyl alcohol and N, N-Dimethylacetamide in benzene solution from microwave absorption data	-- SCI(E)
2009	International Journal of Modern Physics B	A study of low temperature sintered Mg-Mn nano-Ferrites	-- SCI
2010	Z. Naturforsch A	Molecular association of Tetramethylurea and Chlorobenzene molecules in microwave frequency range	-- SCI
2011	Defect & Diffusion Forum	Electrical and Dielectric Properties of Te ₁₅ (Se _{100-x} Bix) ₈₅ Amorphous Glassy Alloys	--
2012	Z. Naturforsch A	Facile synthesis & electrical conductivity of carbon Nanotube reinforced nanosilver composite	-- SCI
2013	Applied Physics A Materials science & processing Springer	Effect of Y ³⁺ substitution on the structural, dielectric, and electrical properties of nanosized ZnAl ₂ O ₄ spinel	-- SCI
2013	Materials Science & Engineering B, Elsevier	Effect of rare earth yttrium substitution on the structural, dielectric and electrical properties of nano sized Nickel aluminate	-- SCI
2013	Journal of electro-ceramics, Springer	Structural, dielectric and electrical studies of MgAl _{2-2x} Y _{2x} O ₄ (x = 0.00-0.05) cubic spinel nano aluminate	SCI
2013	Int. J. Mod. Phys. B Conf. Ser.	Structural and dielectric properties of MgAl _{2-2xy} Y _{2xy} O ₄ nanoparticles,	--
2014	International Journal of Materials Research	Thermal expansion behavior of CNT/Ag nanocomposite	-- Scopus
2014	International Journal of Minerals Metallurgy and Materials	Meachanical, electrical and thermal expansion properties of carbon nanotube-based silver and silver-palladium alloy composites	-- Scopus
2014	Philosophical Magazine	Influence of functionalization on mechanical and electrical properties of carbon nanotube-based silver composites	-- SCI
2015	Indian Journal of Physics	Effect of sintering on mechanical and electrical properties of CNT based silver nanocomposites	-- Scopus
2015	Transactions of Nonferrous Metals Society of China	Thermal conductivity of carbon nanotube-silver composite	-- Scopus
2015	Z. Naturforsch A	Investigation of Thermal Expansion and Physical Properties of Carbon Nanotube Reinforced Nanocrystalline Aluminum Nanocomposite	-- SCI
2016	International Journal of Minerals, Metallurgy and Materials	Chemical, mechanical, and thermal expansion properties of a carbon nanotube-reinforced aluminum nanocomposite	-- Scopus
2017	PHILOSOPHICAL MAGAZINE	Effect of carbon nanotube addition on the thermite reaction in the Al/CuO energetic nanocomposite	-- SCI
2021	Physica B: Condensed Matter	Study of energy release in Fe ₂ O ₃ /Al nano-thermite with graphene as an additional fuel	SCI

Edited Book/Book Chapter

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
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Research Projects

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
PI	Externally sponsored R&D Project	Tailoring the properties of aluminium/carbon nanotubes/high energy materials nanocomposites for explosive components	DRDO	31/10/2011	31/05/2015	24.84 lacs	Completed	NA
PI	Externally sponsored R&D Project	Tailoring the properties of carbon nanotube reinforced nano composites of Ag, Pb and their alloys for microelectronics	DST (New Delhi)	05/10/2011	05/10/2014	17.16 lacs	Completed	NA

Research Supervision

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ph.D	Rohan Samkaria	Structural, dielectric and electrical properties of yttrium doped nano sized magnesium, nickel and zinc aluminates	Completed	2015	NA
Ph.D	Hemant Pal	Mechanical, electrical and thermal properties of CNT reinforced silver nanocomposites	Completed	2015	NA
Ph.D	Manjula Sharma	Synthesis and characterization of carbon nanotube reinforced aluminium nanothermites	Completed	2017	NA
Ph.D	Manisha Sharma	Synthesis and characterization of nano thermites for application in explosives	On going	2019	NA

Patents

Name	Reg./Ref.No.	Date Of Award/Filing	Organization	Status
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Teaching

Programme Name	Subjects Taught	From	To	Credits
Lecturer	Department of Physics St. Bede's College, Shimla	15/07/2000	31/03/2005	5 years
Assistant Professor	Deaprtment of Physics Panipat Institute of Technology, Panipat Haryana	25/07/2006	01/06/2009	3 years
Assistant Professor	Department of Physics NIT Hamirpur (H. P.)	02/06/2009	06/05/2019	10 years
Associate Professor	Department of Physics, NIT Hamirpur (H. P.)	06/05/2019		Till date

Administrative Responsibilities

Position Held	Organization	From	To	Remarks
Warden	Satpura Hostel	25/07/2013	05/06/2014	05
Warden	DHAULADHAR BOYS HOSTEL	06/06/2014	17/06/2015	06
Warden	KAILASH BOYS HOSTEL	17/06/2015	05/07/2017	2014,17
Faculty In-Charge	Institute Guest House	05/12/2018	14/09/2020	06
Nodal Officer	All India Survey for Higher Education	14/05/2018	01/06/2020	2015,05
Warden	Satpura Faculty Hostel	26/03/2019	01/06/2020	07
Coordinator NIRF	NIRF	25/12/2015	17/04/2018	2017,14
Faculty In-Charge	Purchase	01/05/2020		09

Expert Talks

Title	Place	Year	Description
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Professional Activities

Name of Activity	Role	Duration	Organization
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Courses Organized

Category	Type	Title	Venue	From	To	Designation
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Date :

Place :

Signature