

RESEARCH PROFILE OF THE **DEPARTMENT OF PHYSICS, KARNATAK SCIENCE COLLEGE, DHARWAD**

The department has six permanent faculty members, all of them having Ph.D. degree. Details are as follows:

Sl. No.	Name	Designation	Area of research	Remark
1.	Dr. G. H. Malimath	Professor	Fluorescence Spectroscopy and Nanomaterials/ Sensors/ Materials Science	<ol style="list-style-type: none"> 1. Recognized by KUD as Guide for Ph.D... Guided three students successfully for Ph.D 2. Supervised M.Sc project work/ dissertations
2.	Dr. Blaise Lobo	Professor & Head	Polymer Physics/ Nuclear Condensed matter physics/ Materials science	<ol style="list-style-type: none"> 1. Recognized by KUD as Guide for Ph.D... Guided six students successfully for Ph.D. 2. Supervised M.Sc project work/ dissertations
3.	Dr. (Smt.) Nirupama J M	Assistant Professor	Molecular Spectroscopy	Supervised M.Sc project dissertations
4.	Dr. (Smt.) Geeta N Chavan	Assistant Professor	Ferrite materials / Materials science	Supervised M.Sc project dissertations
5.	Dr. (Smt.) Jyothi S Doddamani	Assistant Professor	Experimental Condensed matter physics/ Materials science/ Nanomaterials	Supervised M.Sc project dissertations
6.	Dr. (Smt.) Reshma Nesargi	Assistant Professor	Theoretical condensed matter physics	Supervised M.Sc project dissertations

Profile of Dr. G. H. Malimath

Professor, UG & PG Department of Physics, Karnatak Science College, Dharwad



Research Areas:

Design, Synthesis and Characterisation of Fluorophores as Energy Transfer Dye Lasers, Metal ion sensors, Environmental Pollutants (Aromatic amines and their derivatives) Sensors, Picric Acid Sensors and Photosensitisers for solar cell applications. Theoretical and experimental studies on Photophysical properties of Novel Fluorophores

Research Publications (Title, Citations and year of publication...Ctrl+Click for details):

- | | | |
|--|----|------|
| Enhanced humidity sensing stability of Dy³⁺-doped Mg-Rb ferrites for room temperature operatable humidity sensor applications | 1 | 2023 |
| VG Hiremath, GH Malimath, B Chethan, NSA EL-Gawaad, SAO Abdallah, ...
Journal of Materials Science: Materials in Electronics 34 (20), 1537 | | |
| Novel coumarin substituted fluorescein derivative for selective and sensitive detection of mercury | | 2023 |
| V Praveenkumar, GH Malimath, L Naik
Proceedings of the fifteenth national symposium on radiation and photochemistry | | |
| Solute-solvent interaction and DFT studies on bromonaphthofuran 1, 3, 4-oxadiazole fluorophores for optoelectronic applications | 12 | 2023 |
| L Naik, MS Thippeswamy, V Praveenkumar, GH Malimath, D Ramesh, ...
Journal of Molecular Graphics and Modelling 118, 108367 | | |
| Studies on the characterisation of thiophene substituted 1, 3, 4-oxadiazole derivative for the highly selective and sensitive detection of picric acid | 8 | 2022 |
| MS Thippeswamy, L Naik, CV Maridevarmath, HM Savanur, GH Malimath
Journal of Molecular Structure 1264, 133274 | | |
| Saussurea obvallatta leaves extract as a potential eco-friendly corrosion inhibitor for mild steel in 1 M HCl | 15 | 2022 |
| AG Kalkhambkar, SK Rajappa, J Manjanna, GH Malimath
Inorganic Chemistry Communications 143, 109799 | | |
| Effect of expired doxofylline drug on corrosion protection of soft steel in 1 M HCl: Electrochemical, quantum chemical and synergistic effect studies | 10 | 2022 |
| AG Kalkhambkar, SK Rajappa, J Manjanna, GH Malimath
Journal of the Indian Chemical Society 99 (9), 100639 | | |
| Interactions of Environmental Pollutant Aromatic Amines With Photo Excited States of Thiophene Substituted 1, 3, 4-Oxadiazole Derivative: Fluorescence Quenching Studies | 4 | 2022 |
| T MS, L Naik, CV Maridevarmath, GH Malimath
Journal of Fluorescence 32 (4), 1543-1556 | | |
| Humidity sensing behaviour of Rubidium-doped Magnesium ferrite for sensor applications | 9 | 2022 |
| VG Hiremath, IS Yahia, HY Zahran, B Chethan, GH Malimath, ...
Journal of Materials Science: Materials in Electronics 33 (14), 11591-11600 | | |

Interactions of Environmental Pollutant Aromatic Amines with photoexcited states of Thiophene Substituted 1, 3, 4-Oxadiazole Derivative: Fluorescence quenching studies GH Malimath, MS Thippeswamy, L Naik, CV Maridevarmath		2022
Interaction studies of novel thiophene substituted 1, 3, 4-oxadiazole derivative with nitro aromatic compounds MS Thippeswamy, L Naik, GH Malimath Proceedings of the sixteenth DAE-BRNS biennial Trombay symposium on ...		2022
Synthesis, spectroscopic properties, and DFT correlative studies of 3, 3'-carbonyl biscoumarin derivatives S Walki, GH Malimath, KM Mahadevan, S Naik, SM Sutar, H Savanur, ... Journal of Molecular Structure 1243, 130781	13	2021
Synthesis and Photophysical Properties of Multi-Functional Bisimidazolyl Phenol Zinc (II) Complex: Application in OLED, Anti-Counterfeiting and Latent Finger Print Detection RM Kempegowda, MK Malavalli, GH Malimath, L Naik, KB Manjappa ChemistrySelect 6 (12), 3033-3039	15	2021
A highly selective and sensitive thiophene substituted 1, 3, 4-oxadiazole based turn-off fluorescence chemosensor for Fe ²⁺ and turn on fluorescence chemosensor for Ni ²⁺ and ... L Naik, CV Maridevarmath, MS Thippeswamy, HM Savanur, IAM Khazi, ... Materials Chemistry and Physics 260, 124063	20	2021
A comprehensive studies on photophysical and electrochemical properties of novel D-π-A thiophene substituted 1,3,4-oxadiazole derivatives for optoelectronic applications: A ... GHM ThippeswamyM.S, LohitNaik, C.V.Maridevarmath Chemical Physics 550, 111301	8	2021
Synthesis, characterization, photo physical and DFT studies of bicoumarin and 3-(3-benzofuranyl) coumarin derivatives U Hunagund, F Shaikh, LA Shastri, GH Malimath, L Naikh, VS Sunagar Chemical Data Collections 30, 100537	9	2020
Electronic excitation energy transfer studies in binary mixtures of novel optoelectronically active 1, 3, 4-oxadiazoles and coumarin derivatives L Naik, IAM Khazi, GH Malimath Chemical Physics Letters 749, 137453	5	2020
Studies on the effect of temperature on dielectric relaxation, activation energy (ΔG^*), enthalpy (ΔH^*), entropy (ΔS^*) and molecular interactions of some anilines, phenol and ... CV Maridevarmath, GH Malimath The Journal of Chemical Thermodynamics 144, 106068	4	2020
Design of new Imidazole-derivative dye having donor-π-acceptor moieties for highly efficient organic-dye-sensitized solar cells ASMSYKCKGHMKM Mahadevana Optik	9*	2019
Synthesis, characterization and photophysical studies on novel benzofuran-3-acetic acid hydrazide derivatives by solvatochromic and computational methods CV Maridevarmath, L Naik, VS Negalurmath, M Basanagouda, ... Journal of Molecular Structure 1188, 142-152	22	2019
Synthesis, photophysical, DFT and solvent effect studies on biologically active benzofuran derivative:(5-methyl-benzofuran-3-yl)-acetic acid hydrazide CV Maridevarmath, L Naik, VS Negalurmath, M Basanagouda, ... Chemical Data Collections 21, 100221	20	2019
Dielectric, photophysical, solvatochromic, and DFT studies on laser dye coumarin 334 CV Maridevarmath, L Naik, GH Malimath Brazilian Journal of Physics 49 (2), 151-160	11	2019
Studies on photosensitization of TiO ₂ nanoparticles by novel 1, 3, 4-oxadiazoles derivatives L Naik, IAM Khazi, GH Malimath Optik 183, 732-741	7	2019

Studies on characterization of 1, 3, 4-oxadiazole derivative as metal ion sensor L Naik, GH Malimath Proceedings of the fifteenth DAE-BRNS biennial Trombay symposium on ...		2019
Effect of 2, 4-dimethylaniline on the fluorescence of 1, 3, 4-oxadiazole derivative MS Thippeswamy, L Naik, GH Malimath Proceedings of the fifteenth DAE-BRNS biennial Trombay symposium on ...		2019
Studies on dielectric relaxation in relation to viscosity of some anilines, phenol, and their binary mixtures at microwave frequencies CV Maridevarmath, GH Malimath Canadian Journal of Physics 97 (2), 210-215	2	2019
Turn-off fluorescence studies of novel thiophene substituted 1, 3, 4-oxadiazoles for aniline sensing L Naik, IAM Khazi, GH Malimath Sensors and Actuators A: Physical 284, 145-157	10	2018
Photophysical and computational studies on optoelectronically active thiophene substituted 1,3,4-oxadiazole derivatives GHM Lohit Naik , C.V. Maridevarmath , I.A.M. Khazi Journal of Photochemistry & Photobiology A: Chemistry 368 ((2018)), 200–209	26*	2018
Resonance Energy Transfer Studies from Derivatives of Thiophene Substituted 1,3,4-Oxadiazoles to Coumarin-334 Dye in Liquid and Dye-Doped Polymer Media IAMKGHM Lohit Naik, Narahari Deshapande Brazilian Journal of Physics 47 (6)	7*	2017
Computational and experimental studies on dielectric relaxation and dipole moment of some anilines and phenol CV Maridevarmath, GH Malimath Journal of Molecular Liquids 241, 845-851	24	2017
Study of molecular interactions in antihistamine drug Cinnarizine and Benzene at Different Temperatures CVM G.H. Malimath Der Pharma Chemica 8 (2), 92-97	2	2016
Study of molecular interactions in antidepressant Amitriptyline and Benzene at different temperatures GHMCV Maridevarmath Journal of Chemical and Pharmaceutical Research 8 (2), 237-241,		2016
Static and dynamic model fluorescence quenching of laser dye by carbon tetrachloride in binary mixtures JS Kadadevarmath, GH Malimath, RM Melavanki, NR Patil Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 117, 630-634	42	2014
Solvent effect on the dipole moments and photo physical behaviour of 2, 5-di-(5-tert-butyl-2-benzoxazolyl) thiophene dye JS Kadadevarmath, GH Malimath, NR Patil, HS Geethanjali, ... Canadian Journal of Physics 91 (12), 1107-1113	23	2013
Role of internal mechanisms in energy transfer processes in organic liquid scintillators GH Malimath, GC Chikkur, H Pal, T Mukherjee Applied radiation and isotopes 48 (3), 359-364	10	1997
SOLVATOCHROMIC BEHAVIOUR OF DONOR-ACCEPTOR SUBSTITUTED 1, 2-DIPHENYLETHENES IN ORGANIC SOLVENTS, REVERSE MICELLES AND POLYMER MATRIX AK Singh, GR Mahalaxmi, GH Malimath Journal of photoscience: an international journal official organ of the ...	5	1997
Effect of solvent on the fluorescence quenching of organic liquid scintillators by aniline and carbon tetrachloride TP Giraddi, JS Kadadevarmath, GH Malimath, GC Chikkur Applied radiation and isotopes 47 (4), 461-466	39	1996
Quenching of 2-phenylindole by carbon tetrachloride TP Giraddi, JS Kadadevarmath, GH Malimath, GC Chikkur	2	1996

Indian J. Pure Appl. Phys 34, 224-228

QUENCHING OF 2-PHENYLINDOLE BY CARBON TETRACHLORIDE AND ANILINE IN DIFFERENT SOLVENTS 9 1996

TP Giraddi, JS Kadadevarmath, GH Malimath, GC Chikkur
Indian journal of pure & applied physics 34 (4), 244-248

Electronic excitation energy quenching of an organic liquid scintillator by carbon tetrachloride in different solvents 27 1996

JS Kadadevarmath, TP Giraddi, GH Malimath, GC Chikkur
Radiation measurements 26 (1), 117-121

Role of energy migration in anorganic liquid scintillator system in the 20-70 [sup o] C temperature range 1994

GH Malimath, GC Chikkur
Applied Radiation and Isotopes (International Journal of Radiation ...

Role of energy migration in an organic liquid scintillator system in the 20–70° C temperature range 16 1994

GH Malimath, GC Chikkur
Applied radiation and isotopes 45 (2), 143-147

The role of diffusion, migration and long-range interaction in energy transfer and quenching processes in an organic liquid scintillator 2 1992

BG Math, GC Chikkur, GH Malimath
International journal of radiation applications and instrumentation. Part A ...

Electronic excitation energy transfer from donor to acceptor molecules and between donor molecules in an organic liquid system 1 1991

BG Math, GC Chikkur, GH Malimath
Spectrochimica acta. Part A: Molecular spectroscopy 47 (11)

Dielectric and ultrasonic Studies on some organic Systems

GH Malimath
Dharwad

Energy transfer and quenching studies in organic liquids

GH Malimath
Dharwad

ISSN 0975-413X CODEN (USA): PCHHAX

GH Malimath, CV Maridevarmath

Profile of Dr. Blaise Lobo

Professor & Head, UG & PG Department of Physics, Karnatak Science College, Dharwad



Research areas of Prof. Blaise Lobo:

1. Radiation shielding materials
2. Study of microstructure and properties of polymeric materials using nuclear techniques and complementary techniques.
3. Effect of irradiation on polymeric materials and composites
4. Study of conducting polymeric blends
5. Optical analysis of polymeric materials/films

Research publications:

- [Influence of Polyaniline as Filler on the Microstructural Features and Properties of Polycarbonate: Bismuth Sulfide Nanocomposite](#) 2024
R Mirji, B Lobo, S Mukherjee, M Ahmed, PMG Nambissan
Journal of Inorganic and Organometallic Polymers and Materials 34 (3), 1232-1255
- [Optical properties of UV-C irradiated polyvinylidene chloride films](#) 1 2023
MB Akkamma, B Lobo
Radiation Physics and Chemistry 212, 111182
- [UV induced changes in bismuth oxychloride-filled polycarbonate composite films](#) 2023
VA Kandagal, B Lobo
Academia Materials Science 1 (1), 1-19
- [Computation of gamma radiation shielding parameters of lead monoxide filled polycarbonate composite films](#) 2023
VA Kandagal, B Lobo
JSS Journal of Scientific Studies (ISSN 2583-5815) 2 (1), 23-34
- [External Bremsstrahlung Studies on Films of Lead Monoxide Filled Polycarbonate Composite](#) 2023
VA Kandagal, B Lobo
Atom Indonesia 1 (2), 137-143
- [Spectroscopic Analysis of Lead Monoxide Reinforced Polycarbonate Composite Films](#) 2023
VA Kandagal, B Lobo
JSS Journal of Scientific Studies (ISSN 2583-5815) 1 (2), 7-16
- [Experimental and computational study of the beta shielding properties of polycarbonate filled with lead nitrate](#) 1 2023
M Chandrappa Koramar, B Lobo
Radiation Protection Dosimetry 199 (11), 1248-1255
- [Experimental investigation of the structural features of polycarbonate \(PC\) filled with bismuth nitrate](#) 3 2023

[pentahydrate \(BNP\) composite films in terms of free volume defects ...](#)

R Mirji, B Lobo, D Dutta, SP Masti, MP Eelager

Applied Radiation and Isotopes 196, 110773

[Variation of optical parameters of physically stacked polyvinylidene chloride films with thickness and wavelength](#)

2023

MB Akkamma, B Lobo

Materials Today: Proceedings 80, 1671-1676

[Morphological, linear and nonlinear optical characteristics of PVA/Ac–PVP blend filled with nanoparticles of titania](#)

2022

G Veena, B Lobo

Bulletin of Materials Science 45 (4), 195

[Structural, AC and DC Electrical Transport Properties of Nano Titania-Polyacrylamide Composite Films](#)

2022

G Veena, B Lobo

Indian Journal of Pure & Applied Physics (IJPAP) 60 (3), 227-237

[Experimental investigations on Nano Titania-Polyacrylamide Composite Films](#)

2022

G Veena, B Lobo

Journal of Scientific Research 66 (1)

[Optical analysis of polycarbonate–lead nitrate composite films for UV-A shielding applications](#)

1

2022

CK Manjappa, R Mirji, B Lobo

Materials Today: Proceedings 60, 93-96

[Experimental investigations on the beta attenuation properties of lead monoxide–Polycarbonate composite films](#)

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2022

VA Kandagal, R Mirji, B Lobo

Materials Today: Proceedings 49, 2212-2216

[Thermal degradation kinetics of ethyl vanillin crosslinked chitosan/poly \(vinyl alcohol\) blend films for food packaging applications](#)

10

2021

SS Narasagoudr, Y Shanbhag, RB Chougale, BM Baraker, SP Masti, ...

Chemical Data Collections 34, 100739

[Experimental investigations on nano-titania incorporated polyvinyl alcohol - polyvinyl pyrrolidone composite films](#)

6

2021

B Lobo, G Veena

Polymers - Plastics Technology and Materials 60 (15), 1697-1717

[Microstructural features, spectroscopic study and thermal analysis of potassium permanganate filled](#)

7

2021

[PVA–PVP blend films](#)

G Veena, B Lobo

Journal of Physics: Condensed Matter 33 (25), 255101

[Preparation and humidity sensing behavior of cadmium–zinc ferrite nanocomposite](#)

[1](#) 2021

BM Baraker, B Lobo, S Sikarwar, BC Yadav

Journal of Physics: Conference Series 1921 (1), 012119

[Correction to: Thermal, mechanical, and AC electrical studies of PVA–PEG–Ag₂S polymer hybrid material](#)

[3](#) 2021

SS Devangamath, B Lobo, SP Masti, S Narasagoudr

Journal of Materials Science: Materials in Electronics 32, 14115-14116

[Linear and non-linear optical parameters of polycarbonate reinforced inorganic bismuth nitrate pentahydrate salt composite](#)

[15](#) 2021

R Mirji, B Lobo

Optical Materials 113, 110862

[AC and DC electrical studies on cobalt chloride doped PVA–PVP blend films](#)

2020

BM Baraker, B Lobo

AIP Conference Proceedings 2244 (1)

[Preparation and experimental investigations of the spectroscopic, thermal and microstructural properties of polycarbonate filled with bismuth oxychloride](#)

[1](#) 2020

B Lobo, R Mirji, A Shiri, C Kumbargoudar, L Kamate, S Marigoudar, ...

AIP Conference Proceedings 2244 (1)

[Optical parameters of epoxy-CoSO₄.7H₂O polymer hybrid material](#)

[7](#) 2020

SS Devangamath, B Lobo

Materials Research Innovations 24 (3), 152-160

[Study of polycarbonate–bismuth nitrate composite for shielding against gamma radiation](#)

[33](#) 2020

R Mirji, B Lobo

Journal of Radioanalytical and Nuclear Chemistry 324 (1), 7-19

[Thermal, mechanical, and AC electrical studies of PVA–PEG–Ag₂S polymer hybrid material](#)

[26](#) 2020

SS Devangamath, B Lobo, SP Masti, S Narasagoudr

Journal of Materials Science: Materials in Electronics 31 (4), 2904-2917

[Structural, optical and electrical studies on hybrid material of in situ formed silver sulfide in polymer blend matrix](#)

[9](#) 2019

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- [Positron annihilation studies of free volume changes accompanying the incorporation of lead nitrate in PVA-PVP polymeric blend](#) [10](#) 2019
PB Hammannavar, B Lobo, PMG Nambissan
Radiation Physics and Chemistry 158, 53-60
- [Dielectric relaxation in a cadmium chloride-doped polymeric blend](#) [20](#) 2019
BM Baraker, B Lobo
Bulletin of Materials Science 42 (1), 18
- [Dispersive parameters of oxidized PVA-PVP blend films](#) [12](#) 2019
G VEENA, B LOBO
Turkish Journal of Physics 43 (4), 337-354
- [Study of Polycarbonate \(PC\) - Bismuth Nitrate \(\$\text{Bi}\(\text{NO}_3\)_3\$ \) composites for shielding against gamma radiation](#) 2019
R Mirji, B Lobo
Proceedings of the fourteenth biennial DAE-BRNS symposium on nuclear and ...
- [AC and DC electrical transport properties of potassium permanganate doped PVA-PVP solid polymer electrolyte](#) [14](#) 2018
G Veena, B Lobo
Materials Research Express 6 (3), 035315
- [Correction to: Multistage thermal decomposition in films of cadmium chloride-doped PVA-PVP polymeric blend](#) [1](#) 2018
BM Baraker, B Lobo
Journal of Thermal Analysis and Calorimetry 134, 879-879
- [Multistage thermal decomposition in films of cadmium chloride-doped PVA-PVP polymeric blend](#) [20](#) 2018
BM Baraker, B Lobo
Journal of Thermal Analysis and Calorimetry 134, 865-878
- [Optical, thermal and microstructural studies of epoxy- \$\text{CoSO}_4 \cdot 7\text{H}_2\text{O}\$ hybrid material](#) [3](#) 2018
SS Devangamath, B Lobo
International Journal of Polymer Analysis and Characterization 23 (6), 517-528
- [Mechanical and dynamic mechanical studies on epoxy-cobaltous sulfate polymer hybrids](#) [8](#) 2018
SS Devangamath, B Lobo, SP Masti, S Narasagoudr
Fibers and Polymers 19, 1490-1499

- [Experimental investigations on potassium permanganate doped polyvinyl alcohol-polyvinyl pyrrolidone blend](#) 7 2018
G Veena, B Lobo
AIP Conference Proceedings 1942 (1)
- [Optical, structural and thermal properties of bismuth nitrate doped polycarbonate composite](#) 1 2018
R Mirji, B Lobo
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- [Conductivity measurements on CdCl₂ doped PVA solid polymeric electrolyte for battery application](#) 2 2018
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- [UV irradiation induced microstructural changes in CdCl₂ doped PVA–PVP blend](#) 12 2018
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- [Thermal and electrical transport properties in films of CdCl₂ doped PVA-PVP blend](#) 2 2018
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Recent Advances in Materials Science and Biophysics, 381
- [STRUCTURAL, THERMAL AND DYNAMIC MECHANICAL PROPERTIES OF EPOXY HYBRIDS](#) 2018
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- [Experimental study of the microstructure and optical properties of PVA-PVP blend filled with lead nitrate](#) 12 2018
PB Hammannavar, B Lobo
Materials Today: Proceedings 5 (1), 2677-2684
- [Spectroscopic Studies on Films of Lead NitrateDoped Polyvinyl Alcohol–Polyvinyl Pyrrolidone Blend](#) 2 2018
PB Hammannavar, B Lobo
Mater. Sci. Res. India 15 (1), 55-67
- [Microstructure of cadmium chloride doped PVA/PVP blend films](#) 16 2018
BM Baraker, B Lobo
Materials Today: Proceedings 5 (1), 3036-3043
- [Optical and microstructural studies on films of Pb\(NO₃\)₂ filled PVA - PVP composite](#) 4 2017
P Hammannavar, B Lobo
IOSR Journal of Applied Physics (IOSR-JAP) 9 (6 (Ver. 4)), 13-25

- [Investigation of High Z Components Doped in Polymeric Films, Using 2 \$\pi\$ Configuration X-Ray Fluorescence Technique](#) [2](#) 2017
PB Hammannavar, B Lobo
Macromolecular Symposia 376 (1), 1600212
- [Study of lead nitrate doped PVA/PVP blend films using EDXRF and complementary techniques](#) [8](#) 2017
PB Hammannavar, B Lobo
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- [Analysis of Electrical Measurements on Cadmium Chloride Doped PVA-PVP Blend](#) [16](#) 2017
BM Baraker, B Lobo
Mapana Journal of Sciences (ISSN 0975-3303) 16 (1), 45-65
- [Computation of the mass attenuation coefficient of polymeric materials at specific gamma photon energies](#) [82](#) 2017
R Mirji, B Lobo
Radiation Physics and Chemistry 135, 32-44
- [Dispersion parameters of cadmium chloride doped PVA-PVP blend films](#) [38](#) 2017
BM Baraker, B Lobo
Journal of Polymer Research 24, 1-10
- [24. Radiation shielding materials: A brief review on methods, scope and significance](#) [47](#) 2017
R Mirji, B Lobo
Proceedings of the National Conference on 'Advances in VLSI and ...
- [Spectroscopic analysis of CdCl₂ doped PVA–PVP blend films](#) [34](#) 2017
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Canadian Journal of Physics 95 (8), 738-747
- [Ionic conductivity and free volume related microstructural properties of LiClO₄/PVA/NaAlg polymer composites: Positron annihilation spectroscopic studies](#) [28](#) 2016
T Sheela, RF Bhajantri, PMG Nambissan, V Ravindrachary, B Lobo, ...
Journal of Non-crystalline solids 454, 19-30
- [Experimental study of PVA-PVP blend films doped with cadmium chloride monohydrate](#) [36](#) 2016
BM Baraker, B Lobo
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- [Optical, electrical, thermal properties of cadmium chloride doped PVA–PVP blend](#) [11](#) 2015
BM Baraker, PB Hammannavar, B Lobo

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- [PLT and DBAR investigations on MPDMAPP doped PVA/PVP blend](#) [1](#) 2015
RF Bhajantri, V Ravindrachary, B Lobo, PK Pujari, SG Rathod, J Naik, ...
Journal of Physics: Conference Series 618 (1), 012030
- [DBS investigation on films of cobalt chloride doped PVA-PVP blend](#) [13](#) 2015
PB Hammannavar, BM Baraker, RF Bhajantri, V Ravindrachary, B Lobo
Journal of Physics: Conference Series 618 (1), 012034
- [DBAR investigation on films of polypyrrole incorporated polyvinylalcohol doped with ferric chloride](#) [3](#) 2015
B Lobo, BM Baraker, PB Hammannavar, RF Bhajantri, MR Ranganath, ...
Journal of Physics: Conference Series 618 (1), 012026
- [Inhibition and Quenching of Positronium in Polymeric materials](#) [5](#) 2014
PB Hammannavar, C Hundekar, MY Hurkadli, V Ravindrachary, B Lobo
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- [Optical and electrical properties of cobalt chloride doped polyvinylalcohol polyvinylpyrrolidone blend](#) [8](#) 2014
RV Patil, MR Ranganath, B Lobo
AIP Conference Proceedings 1591 (1), 183-185
- [Microstructural studies on Cobalt chloride doped PVA-PVP blend](#) [9](#) 2014
RV Patil, MR Ranganath, B Lobo
Int J Chem Technol Res 6, 1852-1854
- [Electrical and optical properties of ferric doped PVA-PVP-PPy composite films](#) 2013
RV Patil, MR Ranganath, B Lobo
AIP Conference Proceedings 1512 (1), 578-579
- [Preparation and Thermal Analysis of Ferric Doped PVA-PVP-PPy Composite Films](#) [2](#) 2011
RV Patil, MR Ranganath, B Lobo
AIP Conference Proceedings 1393 (1), 371-372
- [Morphological modifications in potassium permanganate doped poly \(vinyl alcohol\) films](#) [5](#) 2010
M Ranganath, RV Patil, B Lobo
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- [Thermal analysis of potassium permanganate oxidized poly\(vinyl alcohol\) films](#) [1*](#) 2010
MR Ranganath, B Lobo
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- [Changes in the optical properties caused by doping ferric ions in PVA](#) 5 2009
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Proceedings of the 54th DAE Solid State Physics Symposium, 479-480
- [Experimental investigations on flexible blend films of conductive polypyrrole incorporated in poly \(vinyl alcohol\)](#) 2009
MR Ranganath, B Lobo
Solid State Physics (India) 54, 535-536
- [Experimental study of optical spectra of PVA-PPy blend films](#) 2 2009
MR Ranganath, B Lobo
Proceedings of the National Conference on Advances in Nanomaterials, Devices ...
- [Analysis of the Optical Spectra of UV irradiated Fe: PVA](#) 5 2008
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Proceedings of the 53rd DAE Solid State Physics Symposium, 589-590
- [Experimental investigation of optical band gap in potassium permanganate doped poly \(vinyl alcohol\) films](#) 5 2008
MR Ranganath, B Lobo
Proceedings of the International Conference on Materials Science Research ...
- [Experimental investigation of the optical band gap in films of iodine doped polyvinylalcohol - polyvinylpyrrolidone blend](#) 8 2007
MR Ranganath, B Lobo
52nd DAE Solid State Physics Symposium; Solid State Physics (India) 52, 495 ...
- [Study of the UV-Visible absorption spectra of aqueous ferric chloride doped polyvinylalcohol–polyvinylpyrrolidone blend films](#) 4 2007
MR Ranganath, B Lobo
Abstract Book of the International Conference on Condensed Matter Physics ...
- [Iodine-doped polyvinylalcohol using positron annihilation spectroscopy](#) 63 1999
B Lobo, MR Ranganath, TSGR Chandran, GV Rao, V Ravindrachary, ...
Physical Review B 59 (21), 13693
- [Iodine doping and heat treatment studies on some polymers using positron annihilation spectroscopy and thermal analysis](#) 1 1999
B Lobo
Mangalore
- [Phenomenal changes in isotactic polypropylene due to proton irradiation-a positron annihilation study](#) 1997

TSG Ravi Chandran, B Lobo, MR Ranganath, S Gopal, G Padma

[Positron annihilation studies on proton irradiated nitrile rubber](#)

1996

TSG Ravi Chandran, B Lobo, MR Ranganath, S Gopal, V Sreeramalu

Proceedings of the DAE solid state physics symposium. V. 39C

[PREPARATION & XRD CHARACTERIZATION OF FLEXIBLE BLEND FILMS FORMED BY IN-SITU POLYMERIZATION OF PYRROLE IN POLY \(VINYL ALCOHOL\) MR RANGANATH & BLAISE LOBO](#)

1995

MR RANGANATH

Science 18 (5), 469-495

[Micro structural changes in nitrile butadiene rubber by positron annihilation spectroscopy](#)

1995

TSG Ravichandran, R Ramani, P Ramachandra, G Ramgopal, B Lobo, ...

Proceedings of the DAE solid state physics symposium. V. 38C

[Experimental Study of Polymeric Composites Using Nuclear Techniques and Complementary Methods](#)

B Lobo

Dharwad

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