

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 Photo-sensitisers for solar cell applications. Theoretical and experimental studies on Photo physical properties of Novel Fluorophores

For more details, Visit <https://vidwan.inflibnet.ac.in/profile/240066>

Teaching Experience: 28 years

Guided: 03 Ph.D. candidates successfully

Qualification: M.Sc., Ph.D

Designation: Professor and Coordinator (of the PUC course at KSCD)

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** 2022
GH Malimath, MS Thippeswamy, L Naik, CV Maridevarmath
- Interaction studies of novel thiophene substituted 1, 3, 4-oxadiazole derivative with nitro aromatic compounds** 2022
MS Thippeswamy, L Naik, GH Malimath
Proceedings of the sixteenth DAE-BRNS biennial Trombay symposium on ...
- Synthesis, spectroscopic properties, and DFT correlative studies of 3, 3'-carbonyl biscoumarin derivatives** 13 2021
S Walki, GH Malimath, KM Mahadevan, S Naik, SM Sutar, H Savanur, ...
Journal of Molecular Structure 1243, 130781
- Synthesis and Photophysical Properties of Multi-Functional Bisimidazolyl Phenol Zinc (II) Complex: Application in OLED, Anti-Counterfeiting and Latent Finger Print Detection** 15 2021
RM Kempegowda, MK Malavalli, GH Malimath, L Naik, KB Manjappa
ChemistrySelect 6 (12), 3033-3039
- A highly selective and sensitive thiophene substituted 1, 3, 4-oxadiazole based turn-off fluorescence chemosensor for Fe²⁺ and turn on fluorescence chemosensor for Ni²⁺ and ...** 20 2021
L Naik, CV Maridevarmath, MS Thippeswamy, HM Savanur, IAM Khazi, ...
Materials Chemistry and Physics 260, 124063
- A comprehensive studies on photophysical and electrochemical properties of novel D- π -A thiophene substituted 1,3,4-oxadiazole derivatives for optoelectronic applications: A ...** 8 2021
GHM Thippeswamy M.S, Lohit Naik, C.V. Maridevarmath
Chemical Physics 550, 111301
- Synthesis, characterization, photo physical and DFT studies of bicoumarin and 3-(3-benzofuranyl) coumarin derivatives** 9 2020
U Hunagund, F Shaikh, LA Shastri, GH Malimath, L Naikh, VS Sunagar
Chemical Data Collections 30, 100537
- Electronic excitation energy transfer studies in binary mixtures of novel optoelectronically active 1, 3, 4-oxadiazoles and coumarin derivatives** 5 2020
L Naik, IAM Khazi, GH Malimath
Chemical Physics Letters 749, 137453
- Studies on the effect of temperature on dielectric relaxation, activation energy (ΔG^*), enthalpy (ΔH^*), entropy (ΔS^*) and molecular interactions of some anilines, phenol and ...** 4 2020
CV Maridevarmath, GH Malimath
The Journal of Chemical Thermodynamics 144, 106068
- Design of new Imidazole-derivative dye having donor- π -acceptor moieties for highly efficient organic-dye-sensitized solar cells** 9* 2019
ASMSYKCKGHMKM Mahadevana
Optik
- Synthesis, characterization and photophysical studies on novel benzofuran-3-acetic acid hydrazide derivatives by solvatochromic and computational methods** 22 2019
CV Maridevarmath, L Naik, VS Negalurmath, M Basanagouda, ...
Journal of Molecular Structure 1188, 142-152
- Synthesis, photophysical, DFT and solvent effect studies on biologically active benzofuran derivative:(5-methyl-benzofuran-3-yl)-acetic acid hydrazide** 20 2019
CV Maridevarmath, L Naik, VS Negalurmath, M Basanagouda, ...

- Dielectric, photophysical, solvatochromic, and DFT studies on laser dye coumarin 334** 11 2019
CV Maridevarmath, L Naik, GH Malimath
Brazilian Journal of Physics 49 (2), 151-160
- Studies on photosensitization of TiO₂ nanoparticles by novel 1, 3, 4-oxadiazoles derivatives** 7 2019
L Naik, IAM Khazi, GH Malimath
Optik 183, 732-741
- Studies on characterization of 1, 3, 4-oxadiazole derivative as metal ion sensor** 2019
L Naik, GH Malimath
Proceedings of the fifteenth DAE-BRNS biennial Trombay symposium on ...
- Effect of 2, 4-dimethylaniline on the fluorescence of 1, 3, 4-oxadiazole derivative** 2019
MS Thippeswamy, L Naik, GH Malimath
Proceedings of the fifteenth DAE-BRNS biennial Trombay symposium on ...
- Studies on dielectric relaxation in relation to viscosity of some anilines, phenol, and their binary mixtures at microwave frequencies** 2 2019
CV Maridevarmath, GH Malimath
Canadian Journal of Physics 97 (2), 210-215
- Turn-off fluorescence studies of novel thiophene substituted 1, 3, 4-oxadiazoles for aniline sensing** 10 2018
L Naik, IAM Khazi, GH Malimath
Sensors and Actuators A: Physical 284, 145-157
- Photophysical and computational studies on optoelectronically active thiophene substituted 1,3,4-oxadiazole derivatives** 26* 2018
GHM Lohit Naik , C.V. Maridevarmath , I.A.M. Khazi
Journal of Photochemistry & Photobiology A: Chemistry 368 ((2018)), 200–209
- Resonance Energy Transfer Studies from Derivatives of Thiophene Substituted 1,3,4-Oxadiazoles to Coumarin-334 Dye in Liquid and Dye-Doped Polymer Media** 7* 2017
IAMKGHM Lohit Naik, Narahari Deshapande
Brazilian Journal of Physics 47 (6)
- Computational and experimental studies on dielectric relaxation and dipole moment of some anilines and phenol** 24 2017
CV Maridevarmath, GH Malimath
Journal of Molecular Liquids 241, 845-851
- Study of molecular interactions in antihistamine drug Cinnarizine and Benzene at Different Temperatures** 2 2016
CVM G.H. Malimath
Der Pharma Chemica 8 (2), 92-97
- Study of molecular interactions in antidepressant Amitriptyline and Benzene at different temperatures** 2016
GHM CV Maridevarmath
Journal of Chemical and Pharmaceutical Research 8 (2), 237-241,
- Static and dynamic model fluorescence quenching of laser dye by carbon tetrachloride in binary mixtures** 42 2014
JS Kadadevarmath, GH Malimath, RM Melavanki, NR Patil
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 117, 630-634
- Solvent effect on the dipole moments and photo physical behaviour of 2, 5-di-(5-tert-butyl-2-benzoxazolyl) thiophene dye** 23 2013
JS Kadadevarmath, GH Malimath, NR Patil, HS Geethanjali, ...
Canadian Journal of Physics 91 (12), 1107-1113
- Role of internal mechanisms in energy transfer processes in organic liquid scintillators** 10 1997
GH Malimath, GC Chikkur, H Pal, T Mukherjee
Applied radiation and isotopes 48 (3), 359-364
- SOLVATOCHROMIC BEHAVIOUR OF DONOR-ACCEPTOR SUBSTITUTED 1, 2-DIPHENYLETHENES IN ORGANIC SOLVENTS, REVERSE MICELLES AND POLYMER MATRIX** 5 1997

AK Singh, GR Mahalaxmi, GH Malimath
Journal of photoscience: an international journal official organ of the ...

Effect of solvent on the fluorescence quenching of organic liquid scintillators by aniline and carbon tetrachloride 39 1996

TP Giraddi, JS Kadadevarmath, GH Malimath, GC Chikkur
Applied radiation and isotopes 47 (4), 461-466

Quenching of 2-phenylindole by carbon tetrachloride 2 1996

TP Giraddi, JS Kadadevarmath, GH Malimath, GC Chikkur
Indian J. Pure Appl. Phys 34, 224-228

QUENCHING OF 2-PHENYLINDOLE BY CARTON 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
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Energy transfer and quenching studies in organic liquids

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ISSN 0975-413X CODEN (USA): PCHHAX

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