



**Karnatak University's,
KARNATAK SCIENCE COLLEGE, DHARWAD**

NAAC Accredited

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Research Activities 2021-22

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)							
Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
University Research Seed Grant	Dr.R.G.Kalkhambakar	Chemistry	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr.(Smt.) K.Jayalakshmi	Chemistry	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr.K.S.Katagi	Chemistry	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr.(Smt.) S.P.Masti	Chemistry	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr.(Smt.) Nirupama J.M	Physics	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr. (Smt.) Reshma A.Nesargi	Physics	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr.K.Kotresh	Botany	2021-22	50000	2021 One year	Karnatak University, Dharwad	Government
	Dr.K.Kotresh	Botany	2021-22	65000	2021 One year	RQCode K.U.Dharwad	Government
	Dr Rajappa S.K	Chemistry	2021-22	50000	2022 One year	Karnatak University, Dharwad	Government
GRAND TOTAL				465000			

3.1.3 Number of departments having Research projects funded by government and non government agencies during the year

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
Seed Grant	Dr. (Smt.) Reshma Nesargi	Physics	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. (Smt.) Nirupama J. M	Physics	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. Rajappa S. K	Chemistry	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. Rajesh Kalkhambkar	Chemistry	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. Kariyappa Katagi	Chemistry	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. (Smt.) Saraswati Masti	Chemistry	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. Jayalakshmi K	Chemistry	2021	0.5	One year	PMEB, KUD	Government
Seed Grant	Dr. Kotresha K	Botany	2021	0.5	One year	PMEB, KUD	Government
SERB-DST Project	Dr. Manjunatha S	Geology	2018	23.1	Three years	SERB-DST, Govt. Of India	Government
University Research Seed Grant	Dr.K.Kotresh	Botany	2021	0.65	2021 One year	RQCode K.U.Dharwad	Government
		GRAND TOTAL		27.75			

3.3.1 Number of Ph.Ds registered per eligible teacher during the year

Name of full time teacher with Ph.D./D.M/M.Ch./D.N. B Superspeciality/D.Sc./D 'Lit.	Qualification (Ph.D and Year of obtaining	Year of Recognition as Research Guide	Name of the scholar	Year of registration of the scholar	Title of the thesis for scholar
Dr Rajesh G. Kalkhambkar	Ph.D, 2008	2015	Athmanand Anchi	2020	Applications of ionic liquids in Organic Synthesis
Dr Rajesh G. Kalkhambkar	Ph.D, 2008	2015	Preeti Mulimani	2020	Development of chemosensors for environment applications
Dr Rajesh G. Kalkhambkar	Ph.D, 2008	2015	Vinod Jadhav	2020	Synthetic studies in heterocycles of biological interest
Dr Rajesh G. Kalkhambkar	Ph.D, 2008	2015	Imamhusen Jamadar	2020	Synthetic studies in O/N heterocycles of biological interest
Dr Jayalakshmi K	Ph.D 2005	2015	Kavya M.P	2021	High resolution NMR Spectroscopy based Plant Metabolomics:A profile of Non-target metabolites present in the Medicinal plants.
Dr Jayalakshmi K	Ph.D 2005	2015	Poornima Kulgeri	2021	Identification and quantification of various chemical constituents present in Nutraceuticals: NMR Spectroscopy based Metabolomics approach

Dr.R.D.Sanakal	Ph.D 1996	2015	Sampada .M	2021	Studies on effect of heavy metal (hg) toxicity on reproduction and biochemical haematological changes in earthworm <i>Eudrilus eugenia</i>
Dr.Smt. Veeramma Basayya Saviramath	Ph.D 2008	2013	Miss Shakuntala Akki	2021	Level of education and women empowerment in Dharwad District: A geographical analysis
Dr. K. P. Kolkar	Ph.D. 2005	2009	Smt. Nageena P. H. Pratiksha V. Kamble	2021	Developmental Botany
Dr. K..S. Katagi	Ph.D. 2007	2014	Mrs. Surekha Kademani Mr. Vijaykumar Tumbad	2021	Biofuels
Dr.(Smt.) S.P.Masti	Ph.D. 2002	2014	Suhasini Madihalli Manjushree Nagaraj Gunaki Lingaraj Kariyappa Kurabetta Vidyadhar Uttam Singeri	2021	Polymer Science and Nanomaterials
Dr. (Smt.) K. JAYALAKSHMI	Ph.D. 2005	2015	Miss. Kavya M. P. Poornima C. Kulageri	2021	Biomedical Research
Dr. S.K.RAJAPPA	Ph.D. 2004	2015	Rajini L. Minagalavar Geeta D. Pai	2021	Electrochemistry
Late Dr. C. G. PATIL	Ph.D. 2000	2006	Mr. Adarsh Pundalik Miss. Suman Salimath	2021	Cytogenetics
Dr K KOTRESH	Ph.D. 1993	2001	Mr. Ningaraj Mr. Shreyas Betageri	2021 2021	1) Floristic studies in angiosperms of Haveri District, Karnataka (Sri. Ningaraj S Makanur). 2)Diversity and Seed Morphometric studies on Orchidaceae of North Karnataka (Ms. Shreyas Betageri)

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the year

Title of paper	Name of the author/s	Department of the teacher	Name of journal	ISSN number
Structural, AC and DC electrical transport properties of nano titania - polyacrylamide composite films	Dr. Blaise Lobo	Physics	Indian Journal of Pure and Applied Physics	0975-1041
Experimental investigations on nano titania - polyacrylamide composite films	Dr. Blaise Lobo	Physics	Journal of Scientific Research of the Banaras Hindu University	0447-9483
Optical analysis of polycarbonate - lead nitrate composite films for UV-A shielding applications	Dr. Blaise Lobo	Physics	Materials Today: Proceedings	2214-7853
Experimental investigations on the beta attenuation properties of lead monoxide - polycarbonate	Dr. Blaise Lobo	Physics	Materials Today: Proceedings	2214-7853
Thermal degradation kinetics of ethyl vanillin crosslinked chitosan/poly (vinyl alcohol)blend films for food packaging	Dr. Blaise Lobo	Physics	Chemical Data Collections	2405-8300
Experimental investigations on nano-titania incorporated polyvinyl alcohol -polyvinyl pyrrolidone composite films	Dr. Blaise Lobo	Physics	Polymers: Plastics Technology and Materials	2574-0881
Humidity sensing behaviour of rubidium - doped magnesium ferrite for sensor applications	Dr. G. H. Malimath	Physics	Journal of Materials Science: Materials in Electronics	0957-4522
Synthesis, spectroscopic properties, and DFT relative studies of 3, 3'-carbonyl biscoumarin derivatives	Dr. G. H. Malimath	Physics	Journal of Molecular Structure	0222-2860

Interactions of environmental pollutant aromatic amines with photo excited states of thiophene substituted 1,3,4 - oxadiazole derivative: Fluorescence quenching studies	Dr. G. H. Malimath	Physics	Journal of Fluorescence	1053-0509
Studies on the characterisation of thiophene substituted 1,3,4 - oxadiazole derivative for highly selective and sensitive detection of picric acid	Dr. G. H. Malimath	Physics	Journal of Molecular Structure	0222-2860
Effect of expired doxofylline drug on corrosion protection of soft steel in 1M HCl : Electrochemical , quantum chemical and synergistic effect studies	Dr. G. H. Malimath	Physics	Journal of the Indian Chemical Society	0019-4522
Saussurea obvallatta leaves extract as a potential eco-friendly corrosion inhibitor for mild steel in 1M HCl	Dr. G. H. Malimath	Physics	Inorganic Chemistry Communications	1387-7003
Influence of substituent position in aromatic diamines on coumarin derivative	Dr. Nirupama J. M	Physics	Journal of Photochemistry and Photobiology A: Chemistry	1010-6030
Dopamine - assisted coral films of cobalt as bifunctional electrodes for overall water splitting	Jyothi S Doddamani	Physics	Energy Technology	2194-4296
Sequential transformation of copper to porous copper (I) sulfide as superior electrode for supercapacitor	Jyothi S Doddamani	Physics	Journal of Electroanalytical Chemistry	0022-0728
Melamine assisted large - scale and rapid synthesis of porous copper oxide nanostructure	Jyothi S Doddamani	Physics	Emergent Materials	2522-574X
Interactions of Environmental Pollutant Aromatic Amines With Photo Excited States of Thiophene Substituted 1, 3, 4-Oxadiazole Derivative: Fluorescence Quenching Studies	Dr. G. H. Malimath	Physics	Journal of Fluorescence	1543–1556
Studies on the Characterisation of Thiophene Substituted 1, 3, 4-oxadiazole Derivative for the Highly Selective and Sensitive Detection of Picric Acid	Dr. G. H. Malimath	Physics	Journal of Molecular Structure	0022-2860

Humidity sensing behaviour of Rubidium-doped Magnesium ferrite for sensor applications	Dr. G. H. Malimath	Physics	Journal of Materials Science: Materials in Electronics	11591-11600
Saussureaobvallatta leaves extract as a potential eco-friendly corrosion inhibitor for mild steel in 1M HCl	Dr. G. H. Malimath	Physics	Inorganic Chemistry Communications	1387-7003
Effect of expired doxofylline drug on corrosion protection of soft steel in 1 M HCl: Electrochemical, quantum chemical and synergistic effect studies	Dr. G. H. Malimath	Physics	Journal of the Indian Chemical Society	0019-4522
A comprehensive studies on photophysical and electrochemical properties of novel D- π -A thiophene substituted 1,3,4-oxadiazole derivatives for optoelectronic applications: A ...	Dr. G. H. Malimath	Physics	Chemical Physics	0301-0104.
Synthesis and Photophysical Properties of Multi-Functional Bisimidazolyl Phenol Zinc (II) Complex: Application in OLED, Anti-Counterfeiting and Latent Finger Print Detection	Dr. G. H. Malimath	Physics	ChemistrySelect	2365-6549
Synthesis, spectroscopic properties, and DFT correlative studies of 3, 3'-carbonyl biscoumarin derivatives	Dr. G. H. Malimath	Physics	Journal of Molecular Structure	0022-2860
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 ...	Dr. G. H. Malimath	Physics	Materials Chemistry and Physics	0254-0584
Electronic excitation energy transfer studies in binary mixtures of novel optoelectronically active 1, 3, 4-oxadiazoles and coumarin derivatives Electronic excitation energy transfer studies in binary mixtures of novel optoelectronically active 1, 3, 4-oxadiazoles and coumarin derivatives	Dr. G. H. Malimath	Physics	Chemical Physics Letters	0009-2614.

Synthesis, characterization, photo physical and DFT studies of bicoumarin and 3-(3-benzofuranyl) coumarin derivatives	Dr. G. H. Malimath	Physics	Chemical Data Collections	2405-8300.
Studies on the effect of temperature on dielectric relaxation, activation energy (ΔG^*), enthalpy (ΔH^*), entropy (ΔS^*) and molecular interactions of some anilines, phenol and ...	Dr. G. H. Malimath	Physics	The Journal of Chemical Thermodynamics	0021-9614.
Assessment of sub-surface water quality for irrigational suitability in raichuraluk, one of the hard rock regions of Karnataka	Dr. S. Manjunatha	Geology	Journal of Applied Geochemistry	0972-1967
Hydrogeochemical investigation and groundwater quality assessment of the Karanja river basin (KRB), Bidar district, Karnataka, India	Dr. S. Manjunatha	Geology	Journal of Applied Geochemistry	0972-1967
Theriophonum minutum (Willd.) Baillon (Araceae): A new record for Karnataka state, India	Dr. K. Kotresha	Botany	The Journal of Indian Botanical Society	0019-4468
Estimation of tree biomass and carbon sequestration in Karnatak College campus, Dharwad, Karnataka	Dr. K. Kotresha	Botany	Journal of Global Biosciences	2320-1355
Outbreak of Coronavirus (SARS-CoV-2) Delta variant (B.1.617.2) and Delta Plus (AY. 1) with fungal infections, Mucormycosis: Herbal medicine treatment	Dr. K. P. Kolkar	Botany	International Journal of Research and Scientific Innovation (IJRSI)	2321-2705
Melatonin: One molecule one- medicine for many diseases, coronavirus (SARS-CoV-2) disease (Covid19); Function in plants	Dr. K. P. Kolkar	Botany	International Journal of Research and Scientific Innovation (IJRSI)	2321-2705
Camphor tree, Cinnamomum camphora (L.); Ethnobotany and pharmacological updates	Dr. K. P. Kolkar	Botany	Biomedicine	0970-2067
Traditional Herbal Folk Medicine Used For Controlling Corona Virus (Sars-Cov-2) Disease (Covid-19)	Dr. K. P. Kolkar	Botany	International Journal of Innovation Scientific Research and Review	2582-6131

An Age Old Botanical Weapon For Herbal Therapy: Camphor Tree, Cinnamomum Camphora	Dr. K. P. Kolkar	Botany	International Journal of Innovation Scientific Research and Review	2582-6131
Optimization Of Culture Media For The Growth Of Anabaena Pcc550, Anabaena Pcc 574, And Cyldrospermum Pcc518, Cyldrospermum Pcc 567	Dr. D. M. Singh	Botany	Journal of Advanced Scientific Research	0976-9595
Angiospermic macrophyte diversity of Pajhar Lake Kurli, Nipani Taluk, Karnataka	Dr. D. M. Singh	Botany	BIOINFOLET - A Quarterly Journal of Life Sciences	0973-1431
GC-MS Analysis of fresh water Cyldrospermum sp. PCC518, Cyldrospermum sp. PCC 567 ethanol and hexane extracts	Dr. D. M. Singh	Botany	International Journal of Herbal Medicine	2394-0514
Rapid mass propagation of endangered valuable medicinal plant Salacia chinensis L. and GC-MS/LC-MS analysis of active compounds produced in callus and leaf extracts	Dr. Chandrashekhar G Patil	Botany	Sri Lankan Journal of Biology	2550-3340
Study of Drainage characteristics and its Implications for watershed management -A case study of the dharma river Basic ,Karnataka state, India	Dr J T Gudgur	Geology	International Journal of Ecology and Environment Science	2320-5199
Study On Water Quality Suitability For Irrigation In Western Part Of Sandur Schist Belt, Bellary District, Karnataka, India	Dr J T Gudgur	Geology	Journal of Xidian University	:1001-2400
Mapping of Groundwater potential zones in Lingasugur Taluk in North-eastern part of Karnataka, India using Remote Sensing, GIS and multi-criteria data analysis	Dr. S. Manjunatha	Geology	Disaster Advances	
Hydrogeochemical Investigation AND Groundwater quality assessment of the Karanja river basin (krb), bidar district, Karnataka, India	Dr. S. Manjunatha	Geology	Journal of Applied Geochemistry	

Assessment of subsurface water quality for irrigational suitability of Raichur taluk, one of the hard Rock regions of Karnataka	Dr. S. Manjunatha	Geology	Journal of Applied Geochemistry	
Studies on haematological and histopathological alterations induced by sublethal concentration of fenoxaprop-p-ethyl on freshwater fish <i>Cyprinus carpio</i> . Explor	Dr R D Sanakal,.	Zoology	. Anim. Medical Res, 11(1), 55.	2319-247X
Studies On Toxicological Endpoints Of Fenoxaprop-P-Ethyl On Behavioral Changes In Freshwater Exotic Carp <i>Cyprinus Carpio</i> (Linnaeus).	Dr R D Sanakal,.	Zoology	Journal of Advanced Scientific Research,	0976-9595
A study on seasonal variation in zooplankton abundance in Kadagatti Minor Irrigation Tank of Bailhongal Taluk, Belagavi District, Karnataka State, INDIA	Harsha Neelgund	Zoology	Indian Journal of Science and Technology	Electronic 0974-5645 Print 0974-6846
Corrosion protection of soft-cast steel in 1 M HCl with <i>Araucaria heterophylla</i> leaves extract	,S. K. Rajappa	Chemistry	Electrochemical Science Advances	2698-5977
<i>Garcinia livingstonei</i> leaves extract influenced as a mild steel efficient green corrosion inhibitor in 1 M HCl solution	,S. K. Rajappa	Chemistry	Materials Today: Proceedings	2214-7853
Effect of <i>Artabotrys odoratissimus</i> extract as an environmentally sustainable inhibitor for mild steel corrosion in 0.5 M H ₂ SO ₄ media	,S. K. Rajappa	Chemistry	Journal of the Indian Chemical Society	0019-4522
Investigation of African mangosteen leaves extract as an environment-friendly inhibitor for low carbon steel in 0.5 M H ₂ SO ₄	,S. K. Rajappa	Chemistry	Inorganic Chemistry Communications	1387-7003
Smart biodegradable films based on chitosan/methylcellulose containing <i>Phyllanthus reticulatus</i> anthocyanin for monitoring the freshness of fish fillet	Saraswati P Masti	Chemistry	International Journal of Biological Macromolecules	0141-8130 IF - 8.025

Miscibility and Thermal Study of 4-Hydroxycoumarin Doped Chitosan Films	Saraswati P Masti	Chemistry	American Journal of Pharmtech	2249-3387IF-0.9832
Dominant nature of 7-hydroxy 4-methyl coumarin dye on thermal, fluorescence and antimicrobial properties of PVA/OMS blend films	Saraswati P Masti	Chemistry	Journal of Polymer Research	1022-9760IF-3.061
Exploration of Multifunctional Properties of Piper Betel Leaves Extract Incorporated Polyvinyl Alcohol-Oxidized Maize Starch Blend Films for Active Packaging Application	Saraswati P Masti	Chemistry	Journal of Polymers and the Environment	15728900IF-4.705
Polysaccharide-based blend films as a promising material for food packaging applications: physicochemical properties	Saraswati P Masti	Chemistry	Iranian Polymer Journal	1026-1265 IF- 2.485
Preparation and physicochemical assessment of bioactive films based on chitosan and starchy powder of white turmeric rhizomes (<i>Curcuma Zedoaria</i>) for green packaging applications	Saraswati P Masti	Chemistry	International Journal of Biological Macromolecules	0141-IF- 8.025
Chitosan/pullulan based films incorporated with clove essential oil loaded chitosan- ZnO hybrid nanoparticles for active food packaging	Saraswati P Masti	Chemistry	Carbohydrate Polymers	0144-8617IF-10.723
Evaluation of spectroscopic, microscopic and hydrophobic properties of cetrimide and polyethylene glycol-400 plasticized ethyl cellulose films	Saraswati P Masti	Chemistry	Chemical Data Collections	2405-8300IF- 2.50
Development and evaluation of Moringa extract incorporated Chitosan/ Guar gum/Poly (vinyl alcohol) active films for food packaging applications	Saraswati P Masti	Chemistry	International Journal of Biological Macromolecules	0141-8130IF-8.025

Ionic Crosslinked Chitosan/Tragacanth Gum Based Polyelectrolyte Complexes for Antimicrobial Biopackaging Applications.	Saraswati P Masti	Chemistry	Journal of Polymers and the Environment	15728900IF- 4.705
Fabrication and Study of Poly (vinyl alcohol) Film Functionalized with Basella alba Stem Extract	Saraswati P Masti	Chemistry	Journal of Polymers and the Environment	15728900
Ionic conductivity enhancement of PVA: carboxymethyl cellulose poly-blend electrolyte films through the doping of NaI salt	Saraswati P Masti	Chemistry	Cellulose	0969-0239IF- 6.123
Miscibility and Thermal Study of 4-Hydroxycoumarin Doped Chitosan Films	Saraswati P Masti	Chemistry	American Journal of Pharmtech Research	ISSN No.-2249-3387 IF- 0.9832
Dominant nature of 7-hydroxy 4-methyl coumarin dye on thermal, fluorescence and antimicrobial properties of PVA/OMS blend films	Saraswati P Masti	Chemistry	Journal of Polymer Research	ISSN No.-1022-9760 IF - 3.061
Exploration of Multifunctional Properties of Piper Betel Leaves Extract Incorporated Polyvinyl Alcohol-Oxidized Maize Starch Blend Films for Active Packaging Application	Saraswati P Masti	Chemistry	Journal of Polymers and the Environment	ISSN No.- 15728900 IF- 4.705
Chitosan/pullulan based films incorporated with clove essential oil loaded chitosan-ZnO hybrid nanoparticles for active food packaging	Saraswati P Masti	Chemistry	Carbohydrate Polymers	ISSN No.-0144-8617 IF- 10.723
Evaluation of spectroscopic, microscopic and hydrophobic properties of cetrimide and polyethylene glycol-400 plasticized ethyl cellulose films	Saraswati P Masti	Chemistry	Chemical Data Collections	ISSN No.-2405-8300 IF- 2.50
Synthesis of coumarin-thioether conjugates as potential anti-tubercular agents: Their molecular docking and X-ray crystal studies	Dr. Kariyappa S. Katagi	Chemistry	Journal of Molecular Structure	0222-2860
Design and Synthesis of Polycyclic Acridin-(9-yl-Amino) Thiazol-5-yl)-2H-Chromen-2-One Derivatives: As Antiproliferative and Anti-TB Pharmacophores	Dr. Kariyappa S. Katagi	Chemistry	Polycyclic Aromatic Compounds	1563-5333

Quantum chemical computations, fluorescence spectral features and molecular docking of two biologically active heterocyclic class of compounds	Dr. Kariyappa S. Katagi	Chemistry	Journal of Photochemistry and Photobiology A: Chemistry	1010-6030
Mussel shells as sustainable catalyst: synthesis of liquid fuel from non edible seeds of Bauhinia malabarica and Gymnosporia montana	Dr. Kariyappa S. Katagi	Chemistry	Current Research in Green and Sustainable Chemistry	2666-0865
Liquid fuel production from Cassia spectabilis seed oil by one step transesterification and evaluation of its fuel properties based on fatty acid composition	Dr. Kariyappa S. Katagi	Chemistry	Chemical Data Collections	2405-8300
Understanding the binding interaction between phenyl boronic acid P1 and sugars: determination of association and dissociation constants using S-V plots, steady-state spectroscopic methods and molecular docking	Dr. Kariyappa S. Katagi	Chemistry	Luminescence	1522-7243
Design, synthesis, molecular docking, anti-proliferative and anti-TB studies of 2H-chromen-8-azaspiro [4.5] decane-7, 9-dione conjugates	Dr. Kariyappa S. Katagi	Chemistry	Journal of Molecular Structure	0022-2860
Investigation on seed oil chemistry of Bauhinia racemosa for the production of liquid biofuel	Dr. Kariyappa S. Katagi	Chemistry	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	1556-7036
Ionically Crosslinked Chitosan/Tragacanth Gum Based Polyelectrolyte Complexes for Antimicrobial Biopackaging Applications	Dr. Saraswati P Masti	Chemistry	Journal of Polymers and the Environment	1566-2543
Ionic conductivity enhancement of PVA: carboxymethyl cellulose poly-blend electrolyte films through the doping of NaI salt	Dr. Saraswati P Masti	Chemistry	Cellulose	0969-0239
Polysaccharide-based blend films as a promising material for food packaging applications: physicochemical properties	Dr. Saraswati P Masti	Chemistry	Iranian Polymer Journal	1026-1265
N-ethyltetramethylguanidinium ionic liquid [ETMG][EtSO ₃] as organocatalyst and solvent for facile amide synthesis by formyl-transfer with N-formyl-saccharin	Dr. Rajesh G. Kalkhambkar	Chemistry	Tetrahedron Letters	0040-4039

In vitro antimicrobial combat, molecular modelling and structure activity relationship studies of novel class of aryl-ethyne tethered coumarin analogues and some 3-aryl coumarin derivatives	Dr. Rajesh G. Kalkhambkar	Chemistry	Journal of Medicinal Chemistry Reports	2772-4174
Ionic liquid-mediated benzoyl transfer-coupling in the Suzuki and Sonogashira reactions and aryl transfer-coupling by decarbonylation. Synthesis, In vitro and theoretical studies on newly synthesized deep blue emitting 4-(p-methylphenylsulfonyl-5-aryl/alkyl) oxazole analogues for biological and optoelectronic applications	Dr. Rajesh G. Kalkhambkar	Chemistry	Journal of Molecular Liquids	0167-7322
Molecular modeling and In vitro antimicrobial evaluation of some 2-Aryl-Benzoxazoles/Benzothiazole analogues containing alkyl, alkenyl and alkynyl linkages	Dr. Rajesh G. Kalkhambkar	Chemistry	Chemical Data Collections	2405-8300
N-heteroarenes Employing Ultrasonication Assisted α -Arylation of 1-Aryltriazines Promoted by Brønsted Acidic Ionic Liquid under Aerobic Conditions	Dr. Rajesh G. Kalkhambkar	Chemistry	Chemistry Select	2365-6549
Palladium Catalyzed Electrophilic C2-Arylation of Azoles by Aryltriazines in Ionic liquid Promoted by Acidic Ionic Liquid	Dr. Rajesh G. Kalkhambkar	Chemistry	Chemistry-select	2365-6549
¹ H-NMR based lipid profiling of Gossypium hirsutum seed oil at different developmental stages	Dr Jayalkshmi Kamaiah	Chemistry	Current Research in Green and Sustainable Chemistry	Volume 4, 2021, 100216
¹ H-NMR-based serum metabolomic study to evaluate the effect of asarone and metformin on experimentally induced diabetic hepatocellular carcinoma in rats	Dr Jayalkshmi Kamaiah	Chemistry	Bulletin of the National Research Centre volume	Vol 46, No 164 (2022)