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Designation : Associate Professor

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Experience :

Teaching	Research
17 Years	17 Years

No. of papers published in Conferences :

National	International
NIL	NIL

No. of papers published in Journals :

National	International
2	40

Grants received for Research : **UGC Minor Research Project: 1.5 lakhs**  
Completed

Memberships of bodies : RUCTA

Conferences : NIL

## International Journals:

Sr. No	Title of the Research Paper	Vol., PP No. and Year
1	Synthesis of Coumarin Analogous of Decursivine Derivatives	<i>DOI:10.1080/00397911.2016.1171359</i>
2	Highly stereoselective direct aldol reaction of 4-formylcoumarins with acetone catalyzed by L-proline in water–acetone mixtures	<i>DOI: 10.1080/00397911.2016.1205197</i>
3	Design, Synthesis and Structure-Activity Relationship Study of Coumarin Benzimidazole Hybrid as Potent Antibacterial and Anticancer Agents	<i>2016, 1, 4638 – 4644</i>
4	Synthesis, Characterization and Photophysical Studies of Tricoumarin-pyridines	<i>2017 27:419–425</i>
5	Synthesis of naked-eye detectable fluorescent 2H-chromen-2-one 2, 6-dicyanoanilines: Effect of substituents and pH on its luminous behavior	<i>DOI 10.1007/s10895-017-2098-y</i>
6	A green approach for the synthesis of 4-coumarin-4H-pyrans from 4-formylcoumarins and their antibacterial study	<i>DOI: 10.1080/00397911.2017.1336557</i>
7	Design, Synthesis, Characterization, Photophysical and pH Chemosensor Studies of Novel 2,4,6-Trisubstituted Pyridines	<i>( <a href="https://doi.org/10.1080/00397911.2017.1410174">https://doi.org/10.1080/00397911.2017.1410174</a>)</i>
8	Design, Synthesis of coumarin-imidazole hybrid and phenyl-imidazoloacrylates as potent antimicrobial and anti-inflammatory agents	<i>(DOI 10.1007/s00706-017-2079-5)</i>
9	Microwave synthesis of coumarinyl substituted pyridine derivatives as potent anticancer agents and molecular docking studies	<i>2017, 2, 5234 – 5242</i>
10	Synthesis, characterization and molecular docking studies of substituted 4-coumarinylpyrano[2,3-c]pyrazole derivatives as potent antibacterial and anti-inflammatory agents	<i>DOI: 10.1016/J.EGMECH.2016.09.021</i>
11	3,4-Dihydropyrimidinone-coumarin analogues as a new class of selective agent against <i>S. aureus</i> : Synthesis, biological evaluation and molecular modeling study	<i>2017, 25, 1413-1422.</i>
12	Design and synthesis of novel phenyl -1, 4-beta-carboline-hybrid molecules as potential anticancer agents	<i>2017, 128, 123-139.</i>
13	An efficient and catalyst free methylthiolation of 4-(bromomethyl)-2-H-chromen- 2-ones with DMSO	<i>DOI: 10.1080/10426507.2017.1290628</i>
14	Synthesis and characterization of coumarin-4-thiazolidinone scaffolds as new class of anti-tuberculosis and antibacterial agents	<i>2018, 11(7), 77-101</i>
15	Synthesis and Characterization of Chlorophenylthiazolocoumarinyl Hydrazides as Promising Antimicrobial and Anti-Inflammatory Agents	<i>2018, 11(7), 09-39</i>

16	Design and synthesis of structurally identical coumarinotriazoles as cytotoxic and antimicrobial agents	<b>DOI:</b> <a href="https://doi.org/10.1016/j.cdc.2018.09.005">https://doi.org/10.1016/j.cdc.2018.09.005</a>
17	Green Synthesis of coumarin-pyrazolone hybrids: <i>in vitro</i> anticancer and anti-inflammatory activities and their computational study on COX-2 enzyme	<b>2018, 17, 497-506</b>
18	Design, synthesis, characterization and biological evaluation of pyrido[1,2-a] pyrimidinone coumarins as promising Anti-inflammatory agents	<b>DOI:</b> <b>10.1080/00397911.2017.1397698</b>
19	Synthesis of 2,3-Dihydro Flavone Coumarins as a Class of Potent Antifungal and Anti-inflammatory Agents	<b>2018, 3, 3451-3458</b>
20	Design, Synthesis and exploiting pharmacological activities of 2,3-dihydrofuranocoumarins as multi-therapeutic agents	<b>2018, 3, 10738-10749</b>
21	Synthesis of Polyfunctionalized Fused Pyrazolo-Pyridines: Characterization, Anticancer Activity, Protein Binding and Molecular Docking Studies	<b>2018, 3, 1-14</b>
22	Green, unexpected synthesis of bis-coumarin derivatives as potent anti-bacterial and anti-inflammatory agents	<b>2018, 143, 1744-1756</b>
23	Synthesis and characterization of coumarin-isoxazole conjugate as potent antibacterial and anti-inflammatory agents	<b>2018, 11(12), 31-39</b>
24	Synthesis, Antitubercular and Antimicrobial Activity of 1,2,4-Triazolidine-3-thione Functionalized Coumarin and Phenyl Derivatives and Molecular Docking Studies	<b>2019,4, 105-115</b>
25	Synthesis of Polyfunctionalized fused Pyrazole-pyridines, characterization, Anticanceractivity, Protein binding and Molecular Docking studies	<b>2019,4,285-297</b>
26	Synthesis of Novel aryl & coumarin substituted pyrazolo[1,5-a]pyrimidine derivatives as potent anti-inflammatory and anticancer agents	<b>DOI:</b> <b><a href="https://doi.org/10.1016/j.cdc.2020.100550">https://doi.org/10.1016/j.cdc.2020.100550</a></b>
27	Synthesis, characterization, photophysical & DFT Studies bi-coumarin and 3-(3-benzofuranyl)coumarin derivatives	<b>Vol 30, 2020, 100537</b>
28	1,6-Diamino-dihydropyridine & triazolo[1,5-a]pyridine analogous as a highly promising coumarin scaffold for the development of bacterial infection inhibitors	<b>Vol 28, 2020, 100487</b>
29	Solvent-free synthesis characterization and invitro biological activity study of Xanthenediones and Acridinediones	<b>Vol 47, 2021, 535-542</b>
30	Synthesis, thermal and optical characterization of 4, 4'-[(1,4-phenylene)-4,4'-[(1,4-phenylene)-bis-2,6-dicoumarinyl]pyridine derivatives	<b>Vol 31, 2021, 100616</b>
31	Indirect catalyst free $\beta$ -arylation of acyclic 1,5-dicarbonyl compounds via green method	<b>Vol 33, 2021, 100692</b>
32	Design and synthesis of new series of dipyrromethane-coumarin and porphyrin-coumarin derivatives: Excellent anticancer agents	<b>Vol 1237, 2021, 130424</b>
33	Rational design, synthesis and SAR study of novel warfarin analogous of 4-hydroxy coumarin-beta-aryl propanoic acid derivatives as potent anti-inflammatory agents	<b>Vol 1254, 2022, 132300</b>
34	Synthesis and characterization of acid-base indicator: Exploring pH sensor photophysical, thermal application and theoretical study	<b>Vol 1254, 2022, 132363</b>

35	Synthesis, molecular docking, and biological evaluation of methyl-5-(hydroxyimino)-3-(aryl-substituted)hexanoate derivatives	<i>Vol 13,2,2022,151-161</i>
36	Click approach for synthesis of 3,4-dihydro-2(1H) quinolinone, coumarin moored 1,2,3-triazoles as inhibitor of mycobacteria tuberculosis H37RV, their antioxidant, cytotoxicity and in-silico studies	<i>Vol 1269,2022,133795</i>
37	Synthesis, characterization and molecular docking of novel lonazolac analogues 3-(3-hydroxy-5-methyl-1H-pyrazol-4-yl)-3-arylpropanoic acid derivatives: Highly potential COX-1/COX-2, matrix metalloproteinase and protein denaturation inhibitors	<i>Vol 1260,2022,132782</i>
38	A new approach for the synthesis of tri-substituted pyrazole propionic acids derivatives: Anti-inflammatory, antimicrobial and molecular docking studies	<i>Vol 1285,2023,135405</i>
39	Design and synthesis of new coumarin-1,2,3-triazole hybrids as new antidiabetic agents: In vitro $\alpha$ -amylase, $\alpha$ -glucosidase inhibition, anti-inflammatory, and docking study	<i>Vol 15,3,2024,205-219</i>
40	Synthesis ,characterization, biological evaluation of substituted 1,2,3-traizole derivatives as a potential antidiabetic, antibacterial, antioxidant agents and molecular docking studies.	<i>Vol 17(2),2024,18-33</i>

### National Journals:

Sr No.	Title and Publication	Year
<b>1</b>	Synthesis and molecular docking studies of coumarin-imidazole conjugates as potential antimicrobial agents	<i>Vol 59(B),01,2020,110-125</i>
<b>2</b>	Synthesis, invitro biological evaluation and molecular docking study of coumarin1,4-dihydropyradine derivatives as potent anti-inflammatory agents	<i>Vol 60(B),2021,418-432</i>