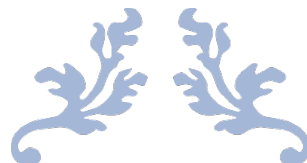


# DEPARTMENT OF CHEMISTRY

## UNIVERSITY OF KASHMIR



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### 3.4.4 Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years (2019-2024)

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Number of research papers published in the Journals as notified on UGC website during the last five years

**Total No. of Publications (2019-2024) = 170**

S. No.	Title	Authors	Journal Name	Year	ISSN No.	Link to website of the Journal
1	Broad Spectrum Tunable Photoluminescent Material Based on Cascade Fluorescence Resonance Energy Transfer between Three Fluorophores Encapsulated within the Self-Assembled Surfactant Systems	MS Lone, S Afzal, OA Chat, PA Bhat, R Dutta, Y Zhang, N Kundu, AA Dar	The Journal of Physical Chemistry B	2019	1520-5207	<a href="https://doi.org/10.1021/acs.jpcc.9b07139">https://doi.org/10.1021/acs.jpcc.9b07139</a>
2	Excimer based FRET between non-FRET pair fluorophores aided by the aromatic moiety of anionic surfactants: An experimental observation	MS Lone, S Afzal, N Nazir, R Dutta, AA Dar	Journal of Molecular Liquids	2019	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2018.11.118">https://doi.org/10.1016/j.molliq.2018.11.118</a>
3	Solution properties and micellization behavior of binary mixtures of sodium salts of N-tetradeconyl alanine and N-tetradeconyl phenylalanine surfactants	RA Shah, R Masrat, MS Lone, S Afzal, U Ashraf, GM Rather, AA Dar	Journal of Molecular Liquids	2019	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2019.04.044">https://doi.org/10.1016/j.molliq.2019.04.044</a>
4	Transition from Competitive to Non-Competitive Solubilization with the Decrease in Number of Oxyethylene (OE) Units of Non-Ionic Surfactants towards Polycyclic Aromatic Hydrocarbons	Mohd Sajid Lone, Oyais Ahmad Chat, Manu Vashishtha, Aijaz Ahmad Dar	Bulletin of the Chemical Society of Japan	2019	1348-0634	<a href="https://doi.org/10.1246/bcsj.20180215">https://doi.org/10.1246/bcsj.20180215</a>
5	Self-Assembled Monolayers of Vitamin B12 over N-Doped Graphene: A Promising Electro-Catalyst for Hydrogen Evolution and Electro-Oxidative Sensing of H <sub>2</sub> O <sub>2</sub>	MA Bhat, SA Bhat	Electrochemical Society Meeting Abstracts ecee2019, 432-432	2019	1091-8213	<a href="https://DOI.org/10.1149/MA2019-04/9/432">https://DOI.org/10.1149/MA2019-04/9/432</a>
6	Cu <sup>2+</sup> -BTC based metal-organic framework: a redox accessible and redox stable MOF for selective and sensitive electrochemical sensing of acetaminophen and dopamine	FA Sofi, MA Bhat, K Majid	New Journal of Chemistry 43 (7), 3119-3127	2019	11440546	<a href="https://doi.org/10.1039/C8NJ06224B">https://doi.org/10.1039/C8NJ06224B</a>

7	Aqueous micellar solutions of surface active ionic liquids as eco-green solvents for electroreduction of halocarbons: A case study of dodecylmethylimidazolium chloride ...	PA Bhat, SA Pandit, MA Rather, MA Bhat	Journal of Molecular Liquids 289, 111129	2019	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2019.111129">https://doi.org/10.1016/j.molliq.2019.111129</a>
8	As catalytic as silver nanoparticles anchored to reduced graphene oxide: Fascinating activity of imidazolium based surface active ionic liquid for chemical degradation of ...	MA Rather, SA Bhat, SA Pandit, FA Bhat, GM Rather, MA Bhat	Catalysis Letters 149, 2195-2203	2019	1572879X	<a href="https://doi.org/10.1007/s10562-019-02798-4">https://doi.org/10.1007/s10562-019-02798-4</a>
9	Sulfonate... pyridinium supramolecular synthon: a robust interaction utilized to design molecular assemblies	AA Ganie, AA Ahangar, AA Dar	Crystal Growth & Design 19 (8), 4650-4660	2019	15287505	<a href="https://doi.org/10.1021/acs.cgd.9b00555">https://doi.org/10.1021/acs.cgd.9b00555</a>
10	Utility of bis-4-pyridines as supramolecular linkers for 5-sulfosalicylic acid centers: structural and optical investigations	AA Ganie, P Vishnoi, AA Dar	Crystal Growth & Design 19 (4), 2289-2297	2019	15287505	<a href="https://doi.org/10.1021/acs.cgd.8b01914">https://doi.org/10.1021/acs.cgd.8b01914</a>
11	Synthesis, structural investigations and DNA cleavage properties of a new water soluble Cu (II)-iminodiacetate complex	I Yousuf, M Zeeshan, F Arjmand, MA Rizvi, S Tabassum	Inorganic Chemistry Communications 106, 48-53	2019	1387-7003	<a href="https://doi.org/10.1016/j.inoche.2019.05.027">https://doi.org/10.1016/j.inoche.2019.05.027</a>
12	Cyanuric- Chloride- Mediated Synthesis of 2-Aryl-3-tert-butoxycarbonyl-thiazolidine-4-carboxylic Acid Anilides: Mechanistic, X-Ray Crystal Structures and Cytotoxicity Studies	RM Jagtap, SR Shaikh, RG Gonnade, S Raheem, MA Rizvi, SK Pardeshi	Chemistry Select	2019	2365-6549	<a href="https://doi.org/10.1002/slct.201901002">https://doi.org/10.1002/slct.201901002</a>
13	Visible light-mediated [2+ 2] cycloaddition reactions of 1, 4-quinones and terminal alkynes	S Sultan, MS Bhat, MA Rizvi, BA Shah	The Journal of Organic Chemistry 84 (14), 8948-8958	2019	0022-3263	<a href="https://doi.org/10.1021/acs.joc.9b00855">https://doi.org/10.1021/acs.joc.9b00855</a>
14	Photoredox-Mediated Generation of gem-Difunctionalized Ketones: Synthesis of $\alpha,\alpha$ -Aminothioketones	N Chalotra, MA Rizvi, BA Shah	Organic letters 21 (12), 4793-4797	2019	1523-7060	<a href="https://doi.org/10.1021/acs.orglett.9b01677">https://doi.org/10.1021/acs.orglett.9b01677</a>

15	Exploring Bikaverin as Metal ion Biosensor: A Computational approach.	Z Hussain, HR Bhat, T Naqvi, MK Rana, MA Rizvi	Acta Chimica Slovenica 66 (2)	2019	1580-3155	<a href="https://doi.org/10.17344/acsi.2018.4843">https://doi.org/10.17344/acsi.2018.4843</a>
16	Dielectric, magnetic and photocatalytic activity of PolyPyrrole/Prussian red nanocomposite for waste water treatment applications	MA Rizvi, SK Moosvi, T Jan, S Bashir, P Kumar, WD Roos, HC Swart	Polymer 163, 1-12	2019	2073-4360	<a href="https://doi.org/10.1016/j.polymer.2018.12.044">https://doi.org/10.1016/j.polymer.2018.12.044</a>
17	Abiotic Fluorescent Receptors for Bioimaging: Sensing of Nucleic Acids	MA KALOO, BA BHAT, SUL ISLAM, SMA RIZVI, QM JUNAID	Mater. Sci. Res. India 16 (3), 235-239	2019	2394-0565	<a href="https://doi.org/10.13005/msri/160306">https://doi.org/10.13005/msri/160306</a>
18	Effect of single and binary mixed surfactant impregnation on the adsorption capabilities of chitosan hydrogel beads toward rhodamine B	Suraya Jabeen, Mohd Sajid Lone, Saima Afzal, Pawandeeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	New Journal of Chemistry	2020	1369-9261	<a href="https://doi.org/10.1039/D0NJ02496A">https://doi.org/10.1039/D0NJ02496A</a>
19	Co-solubilization of polycyclic aromatic hydrocarbon mixtures in aqueous micellar systems and its correlation with FRET for enhanced remediation processes	Uzma Ashraf, Mohd Sajid Lone, Rohi Masrat, Rais Ahmad Shah, Saima Afzal, Oyais Ahmad Chat, Aijaz Ahmad Dar	Chemosphere	2020	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2019.125160">https://doi.org/10.1016/j.chemosphere.2019.125160</a>
20	Comparison between the interfacial and bulk rheology of sodium carboxymethylcellulose in the presence of cationic and non-ionic surfactants	Rohi Masrat, Rais Ahmad Shah, Mohd Sajid Lone, Uzma Ashraf, Saima Afzal, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Journal of Molecular Liquids	2020	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2020.112477">https://doi.org/10.1016/j.molliq.2020.112477</a>

21	Modulation of surface tension and rheological behavior of methyl cellulose–Amino acid based surfactant mixture by hydrophobic drug rifampicin: An insight into drug ...	Saima Afzal, Mohd Sajid Lone, Masrat Maswal, Aijaz Ahmad Dar	Journal of Molecular Liquids	2020	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2020.114353s">https://doi.org/10.1016/j.molliq.2020.114353s</a>
22	Chemical Composition, Antioxidant and Cytotoxic Activity of Artemisia gmelinii Essential Oil Growing Wild in Kashmir Valley	MahparaQadir, Antim Kumar Maurya, Ajaz Ahmad Waza, Vijai Kant Agnihotri, and Wajaht A. Shah	Natural Product Research	2020	1478-6419	<a href="https://doi.org/10.1080/14786419.2018.1557178">https://doi.org/10.1080/14786419.2018.1557178</a>
23	Eureka Moment: An Archimedean Alternative for the Determination of cmc of Surfactants via Weight Measurements	MS Khan, AA Wani, T Ismail, SA Bhat, FA Sofi, MA Bhat	ACS omega 5 (49), 31640-31643	2020	2470-1343	<a href="https://doi.org/10.1021/acsomega.0c04029">https://doi.org/10.1021/acsomega.0c04029</a>
24	Highly efficient catalytic reductive degradation of Rhodamine-B over Palladium-reduced graphene oxide nanocomposite	SA Bhat, N Rashid, MA Rather, SA Bhat, PP Ingole, MA Bhat	Chemical Physics Letters 754, 137724	2020	92614	<a href="https://doi.org/10.1016/j.cplett.2020.137724">https://doi.org/10.1016/j.cplett.2020.137724</a>
25	Structural-functional integrity of lysozyme in imidazolium based surface active ionic liquids	MA Rather, TA Dar, LR Singh, GM Rather, MA Bhat	International journal of biological macromolecules 156, 271-279	2020	1418130	<a href="https://doi.org/10.1016/j.ijbiomac.2020.04.033">https://doi.org/10.1016/j.ijbiomac.2020.04.033</a>
26	Unprecedented lower over-potential for CO2 electro-reduction on copper oxide anchored to graphene oxide microstructures	N Rashid, MA Bhat, A Das, PP Ingole	Journal of CO2 Utilization 39, 101178	2020	22129820	<a href="https://doi.org/10.1016/j.jcou.2020.101178">https://doi.org/10.1016/j.jcou.2020.101178</a>
27	Au-nanoparticle loaded nickel-copper bimetallic MOF: An excellent catalyst for chemical degradation of Rhodamine B	S Nabi, FA Sofi, N Rashid, PP Ingole, MA Bhat	Inorganic Chemistry Communications 117, 107949	2020	13877003	<a href="https://doi.org/10.1016/j.inoche.2020.107949">https://doi.org/10.1016/j.inoche.2020.107949</a>
28	Dendritic copper microstructured electrodeposits for efficient and selective electrochemical reduction of carbon dioxide into C1 and C2 hydrocarbons	N Rashid, MA Bhat, PP Ingole	Journal of CO2 Utilization 38, 385-397	2020	22129820	<a href="https://doi.org/10.1016/j.jcou.2020.02.017">https://doi.org/10.1016/j.jcou.2020.02.017</a>

29	Vitamin B12 functionalized N-doped graphene: a promising electro-catalyst For hydrogen evolution and electro-oxidative sensing of H <sub>2</sub> O <sub>2</sub>	SA Bhat, N Rashid, MA Rather, SA Pandit, PP Ingole, MA Bhat	Electrochimica Acta 337, 135730	2020	0013-4686	<a href="https://doi.org/10.1016/j.electacta.2020.135730">https://doi.org/10.1016/j.electacta.2020.135730</a>
30	Mechanistic insight into the electrocatalytic performance of reduced graphene oxide supported palladium, silver and palladium–silver nanodeposits toward electro-dehalogenation ...	SA Pandit, SA Bhat, MA Rather, PP Ingole, MA Bhat	Physical Chemistry Chemical Physics 22 (29), 16985-16997	2020	14639084	<a href="https://doi.org/10.1039/D0CP01932A">https://doi.org/10.1039/D0CP01932A</a>
31	Electrochemical reduction of CO <sub>2</sub> to ethylene on Cu/Cu x O-GO composites in aqueous solution	N Rashid, MA Bhat, UK Goutam, PP Ingole	RSC advances 10 (30), 17572-17581	2020	2046-2069	<a href="https://doi.org/10.1039/D0RA02754E">https://doi.org/10.1039/D0RA02754E</a>
32	Transforming micelles into mixed micelles: a promising approach to tune the catalytic performance of imidazolium-based surface active ionic liquids toward degradation of ...	Fayaz Ahmed Butt, Parvaiz Ahmad Bhat, Sajad Ahmad Bhat, Nusrat Rashid, Mudasir Ahmad Rather, Sarwar Ahmad Pandit, Pravin P Ingole, Ghulam Mohammad Rather, Mohsin Ahmad Bhat	Physical Chemistry Chemical Physics 22 (20), 11337-11347	2020	14639084	<a href="https://doi.org/10.1039/C9CP07040K">https://doi.org/10.1039/C9CP07040K</a>
33	Achievement of enhanced solubility and improved optics in molecular complexes based on a sulfonate–pyridinium supramolecular synthon	I Ahmad, AA Ganie, AA Dar	CrystEngComm 22 (23), 3933-3942	2020	1466-8033	<a href="https://doi.org/10.1039/D0CE00346H">https://doi.org/10.1039/D0CE00346H</a>
34	Irreversible Thermochromism in organic salts of sulfonated Anils	AA Dar, AA Ganie	Crystal Growth & Design 20 (6), 3888-3897	2020	15287505	<a href="https://doi.org/10.1021/acs.cgd.0c00188">https://doi.org/10.1021/acs.cgd.0c00188</a>
35	Complexation Modulated Iron Redox Systems for Waste Water Treatment: A Natural Attenuation Model	S Bashir, SM Bandy, M Mustafa, MA Rizvi	ChemistrySelect 5 (35), 10945-10952	2020	2365-6549	<a href="https://doi.org/10.1002/slct.202002241">https://doi.org/10.1002/slct.202002241</a>

36	Photoredox-mediated synthesis of functionalized sulfoxides from terminal alkynes	J Kumar, A Ahmad, MA Rizvi, MA Ganie, C Khajuria, BA Shah	Organic Letters 22 (14), 5661-5665	2020	1523-7060	<a href="https://doi.org/10.1021/acs.orglett.0c02055">https://doi.org/10.1021/acs.orglett.0c02055</a>
37	Development of polythiophene/prussian red nanocomposite with dielectric, photocatalytic and metal scavenging properties	S Bashir, SK Moosvi, T Jan, G Rydzek, SH Mir, MA Rizvi	Journal of Electronic Materials 49, 4018-4027	2020	0361-5235	<a href="https://doi.org/10.1007/s11664-020-08117-7">https://doi.org/10.1007/s11664-020-08117-7</a>
38	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles	P Kumar, A Kumar, MA Rizvi, SK Moosvi, V Krishnan, MM Duvenhage, WD Roos, HC Swart	Applied Surface Science 514, 145930	2020	0169-4332	□ <a href="https://doi.org/10.1016/j.apsusc.2020.145930">https://doi.org/10.1016/j.apsusc.2020.145930</a>
39	Photo-oxidation Coupled Kabachnik–Fields and Bigenelli reactions for Direct Conversion of Benzyl alcohols to $\alpha$ -Aminophosphonates and Dihydropyrimidones	G Ali, NA Dangroo, S Raheem, T Naqvi, T Ara, MA Rizvi	Acta Chim. Slov 67 (1), 195-202	2020	1580-3155	□ <a href="https://doi.org/10.17344/acsi.2019.5348">https://doi.org/10.17344/acsi.2019.5348</a>
40	Bioactive supra decorated thiazolidine-4-carboxylic acid derivatives attenuate cellular oxidative stress by enhancing catalase activity	MA Rizvi, Z Hussain, F Ali, A Amin, SH Mir, G Rydzek, RM Jagtap, S K Pardeshi, R A Qadri, K Ariga	Physical Chemistry Chemical Physics 22 (15), 7942-7951	2020	1463-9084	<a href="https://doi.org/10.1039/D0CP00253D">https://doi.org/10.1039/D0CP00253D</a>
41	Solubility of organic compounds in scCO <sub>2</sub>	NUD Reshi, MA Rizvi, SK Moosvi, M Ahmad, A Gani,	Green Sustainable Process for Chemical and Environmental Engineering and and Science, 379-411	2020	9.78013E+12	<a href="https://doi.org/10.1016/B978-0-12-817388-6.00016-7">https://doi.org/10.1016/B978-0-12-817388-6.00016-7</a>
42	Metal–ligand-based thixotropic self-healing poly (vinyl alcohol) metallohydrogels: Their application in pH-responsive drug release and selective adsorption of dyes	Saima Afzal, Mohd Sajid Lone, AA Dar	Journal of Materials Research	2021	2044-5326.	<a href="https://doi.org/10.1557/s43578-021-00361-9">https://doi.org/10.1557/s43578-021-00361-9</a>

43	Exclusive behaviour of asymmetric zwitterionic gemini surfactants towards lysozyme	Imtiyaz Ahmad Bhat, Tasneem Kausar, Aijaz Ahmad Dar, Shahid M Nayeem, Mohd Akram	Journal of Molecular Liquids	2021	1873-3166	<a href="https://doi.org/10.1016/j.colsurfa.2021.127223">https://doi.org/10.1016/j.colsurfa.2021.127223</a>
44	Synergistic effect of various metal ions on the mechanical, thixotropic, self-healing, swelling and water retention properties of bimetallic hydrogels of alginate	A Shaheen, Aijaz Ahmad Dar	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2021	1873-4359	<a href="https://doi.org/10.1016/j.molliq.2021.116583">https://doi.org/10.1016/j.molliq.2021.116583</a>
45	Modulation of the interaction between sodium alginate and C16BzCl by the ions from sodium chloride and sodium salicylate: an insight into the hydrophobic salt ...	Suraya Jabeen, Mohd Sajid Lone, Saima Afzal, Pawandeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Colloid and Polymer Science	2021	1435-1536	<a href="https://doi.org/10.1007/s00396-021-04841-6">https://doi.org/10.1007/s00396-021-04841-6</a>
46	Emission Color Tuning and White Light Generation from a Trimolecular Cocktail in Cationic Micellar System with Promising Applicability in the Anticounterfeiting Technology	Firdaus Ahmad Ahanger, Nighat Nazir, Mohd Sajid Lone, Saima Afzal, Aijaz Ahmad Dar	Langmuir	2021	1520-5827	<a href="https://doi.org/10.1007/s00396-021-04841-6">https://doi.org/10.1007/s00396-021-04841-6</a>
47	pH Changes in the Micelle–Water Interface of Surface-Active Ionic Liquids Dictate the Stability of Encapsulated Curcumin: An Insight Through a Unique Interfacial Reaction ...	S Afzal, M.S Lone, N Nazir, AA Dar	ACS OMEGA	2021	1520-5827	<a href="https://doi.org/10.1021/acsomega.1c01119">https://doi.org/10.1021/acsomega.1c01119</a>
48	Structural changes in trypsin induced by the bile salts: An effect of amphiphile hydrophobicity	Muzaffar Hussain Najar, Oyais Ahmad Chat, Parvaiz Ahmad Bhat, Mohammad Amin Mir, Ghulam Mohamamd Rather, Aijaz Ahmad Dar	International journal of biological macromolecules	2021	1879-0003	<a href="https://doi.org/10.1016/j.ijbiomac.2021.03.041">https://doi.org/10.1016/j.ijbiomac.2021.03.041</a>



49	Temperature- and Composition-Induced Multiarchitectural Transitions in the Catanionic System of a Conventional Surfactant and a Surface-Active Ionic Liquid	Mohd Sajid Lone, Saima Afzal, Oyais Ahmad Chat, Vinod Kumar Aswal, Aijaz Ahmad Dar	ACS OMEGA	2021	2470-1343.	<a href="https://doi.org/10.1021/acsomega.1c00469">https://doi.org/10.1021/acsomega.1c00469</a>
50	Exploiting self-assembled soft systems based on surfactants, biopolymers and their mixtures for inhibition of Citral degradation under harsh acidic Conditions	Parvaiz Ahmad Bhat, Nighat Nazir, Oyais Ahmad Chat, Aijaz Ahmad Dar	Food Chemistry	2021	1873-7072	<a href="https://doi.org/10.1016/j.foodchem.2020.128168">https://doi.org/10.1016/j.foodchem.2020.128168</a>
51	Energy transduction through FRET in self-assembled soft nanostructures based on surfactants/polymers: current scenario and prospects	Mohd Sajid Lone, Parvaiz Ahmad Bhat, Saima Afzal, Oyais Ahmad Chat, Aijaz Ahmad Dar	Soft Matter	2021	1744-6848	<a href="https://doi.org/10.1039/D0SM01625J">https://doi.org/10.1039/D0SM01625J</a>
52	Effect of single and binary mixed surfactant impregnation on the adsorption capabilities of chitosan hydrogel beads toward rhodamine B	Suraya Jabeen, Mohd Sajid Lone, Saima Afzal, Pawandeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	New Journal of Chemistry	2021	1369-9261	<a href="https://doi.org/10.1039/D0NJ02496A">https://doi.org/10.1039/D0NJ02496A</a>
53	Volatile Composition, Antibacterial and Antioxidant Activities of Artemisia tournefortiana Reichb. From Kashmir India.	Mahpara Qadir, Antim Maurya, Vijai Kant Agnihotri and Wajaht A. Shah	Natural Product Research	2021	1478-6419	DOI: 10.1080/14786419.2019.161399
54	A Metal-free visible light promoted three component facile synthesis of 4-oxo-tetrahydroindoles in ethanol-water.	Khursheed Ansari, Mohd Nazeef, Shabir Ali, Malik A. Waseem, Saif Ansari, Wajaht Amin Shah, I. R. Siddiqui and Jagdambasingh	Journal of heterocyclic chemistry	2021	1943-5193	DOI: 10.1002/jhet.4202

55	Synthesis, surface activity, self-aggregation and cytotoxicity of ruthenium (II) and Oxovanadium (IV) based metallo-surfactants	R Jan, MS Khan, N Hassan, U Mushtaq, FA Khanday, MA Bhat	Journal of Molecular Liquids 331, 115696	2021	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2021.115696">https://doi.org/10.1016/j.molliq.2021.115696</a>
56	Aqueous micellar solutions of Imidazolium based surface active ionic liquids: Promising solvent systems to boost the electrocatalytic performance of Vitamin B12 toward eco ...	SA Pandit, SA Bhat, PP Ingole, MA Bhat	Electrochimica Acta 369, 137655	2021	0013-4686	<a href="https://doi.org/10.1016/j.electacta.2020.137655">https://doi.org/10.1016/j.electacta.2020.137655</a>
57	Surface active ionic liquid assisted metal-free electrocatalytic-carboxylation in aqueous phase: a sustainable approach for CO <sub>2</sub> utilization paired with electro-detoxification ...	Sarwar Ahmad Pandit, Sajad Ahmad Bhat, Mudasir Ahmad Rather, Feroz Ahmad Sofi, Pravin P Ingole, Zahid Manzoor Bhat, Musthafa Ottakam Thotiyl, Khursheed Ahmad Bhat, Shakeel U Rehman, Mohsin Ahmad Bhat	Green Chemistry 23 (24), 9992-10005	2021	14639262	<a href="https://doi.org/10.1039/D1GC03412J">https://doi.org/10.1039/D1GC03412J</a>
58	Nano-spinel cobalt decorated sulphur doped graphene: an efficient and durable electrocatalyst for oxygen evolution reaction and non-enzymatic sensing of H <sub>2</sub> O <sub>2</sub>	AA Wani, MM Bhat, FA Sofi, SA Bhat, PP Ingole, N Rashid, MA Bhat	New Journal of Chemistry 45 (34), 15544-15554	2021	11440546	<a href="https://doi.org/10.1039/D1NJ02383G">https://doi.org/10.1039/D1NJ02383G</a>
59	Water Switched Reversible Thermochromism in Organic Salt of Sulfonated Anil	AA Ganie, AA Dar	Crystal Growth & Design 21 (5), 3014-3023	2021	15287505	<a href="https://doi.org/10.1021/acs.cgd.1c00189">https://doi.org/10.1021/acs.cgd.1c00189</a>
60	Validation of the supramolecular synthon preference through DFT and physicochemical property investigations of pyridyl salts of organo-sulfonates	Arshid A Ganie, Thufail M Ismail, PK Sajith, Aijaz A Dar	New Journal of Chemistry 45 (10), 4780-4790	2021	1369-9261	<a href="https://doi.org/10.1039/D0NJ05485B">https://doi.org/10.1039/D0NJ05485B</a>
61	Organic co-crystal semiconductors: a crystal engineering perspective	AA Dar, S Rashid	CrystEngComm 23 (46), 8007-8026	2021	1418130	<a href="https://doi.org/10.1039/D0NJ05485B">https://doi.org/10.1039/D0NJ05485B</a>

62	Visible-light-promoted oxidative annulation of naphthols and alkynes: Synthesis of functionalized naphthofurans	N Chalotra, IH Shah, S Raheem, MA Rizvi, BA Shah	The Journal of Organic Chemistry 86 (23), 16770-16784	2021	0022-3263	<a href="https://doi.org/10.1021/acs.joc.1c01992">https://doi.org/10.1021/acs.joc.1c01992</a>
63	A photosensitized metal free approach to $\alpha$ -ketoamides: sequential oxidative amidationdiketonization of terminal alkynes	FM Manhas, S Raheem, J Kumar, P Thakur, MA Rizvi	ChemistrySelect 6 (29), 7499-7504	2021	2365-6549	<a href="https://doi.org/10.1002/slct.202101511">https://doi.org/10.1002/slct.202101511</a>
64	CO2 Attenuation: Electrochemical Methods and Perspectives	A Hanif, BM Pirzada, R Farooq, GM Peerzada, MA Rizvi	Journal of The Electrochemical Society 168 (5), 056515	2021	1945-7111	DOI 10.1149/1945-7111/abfcda
65	Exploring supramolecular aggregation behaviour of bioactive thiazolidine-4-carboxylic acid derivatives	RM Jagtap, SK Pardeshi, A Nabi, Z Hussain, SH Mir, MA Rizvi	Microsystem Technologies 27, 1133-1143	2021	9467076	<a href="https://doi.org/10.1007/s00542-018-4125-6">https://doi.org/10.1007/s00542-018-4125-6</a>
66	Physicochemical studies of synthesized biscoumarin[3,3-(phenylmethylene)bis(4-hydroxy-2H-chromen-2-one)] in DMSO and various percentage compositions of ethanol in DMSO from 288 ...	Richu, Zainab Amin, S Muzaffar Banday, Poonam Rajput, MA Rizvi, ...	journal of molecular liquids 333, 15891-15902	2021	0167-7322	DOI: 10.1016/j.molliq.2021.115891
67	A Switching-Type Positive Temperature Coefficient Behavior Exhibited by PPy/(PhSe) <sub>2</sub> Nanocomposite Prepared by Chemical Oxidative Polymerization	T Jan, M Ahmad Rizvi, SK Moosvi, MH Najar, S Husain Mir, GM Peerzada	ACS omega 6 (11), 7413-7421	2021	24701343	<a href="https://doi.org/10.1021/acsomega.0c05799">https://doi.org/10.1021/acsomega.0c05799</a>
68	Photoredox-Mediated Synthesis of $\beta$ -Hydroxydithioacetals from Terminal Alkynes	F Manzer Manhas, J Kumar, S Raheem, P Thakur, MA Rizvi, BA Shah	ChemPhotoChem 5 (3), 235-239	2021	23670932	<a href="https://doi.org/10.1002/cptc.202000237">https://doi.org/10.1002/cptc.202000237</a>
69	Organoselenium compounds as acetylcholinesterase inhibitors: Evidence and mechanism of mixed inhibition	A Kumawat, S Raheem, F Ali, TA Dar, S Chakrabarty, MA Rizvi	The Journal of Physical Chemistry B 125 (6), 1531-1541	2021	1520-5207	<a href="https://doi.org/10.1021/acs.jpcc.0c08111">https://doi.org/10.1021/acs.jpcc.0c08111</a>

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72	Micellization and gelation characteristics of Pluronic P123 and single ester-bonded cleavable cationic gemini surfactant: A potential system for solubilization and release of ...	Hina Kouser Qadri, Arjumund Shaheen, Showkat Rashid, Imtiyaz Ahmad Bhat, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Journal of Molecular Liquids	2022	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2022.120311">https://doi.org/10.1016/j.molliq.2022.120311</a>
73	Chitosan Hydrogels with Embedded Thermo- and pH-Responsive Microgels as a Potential Carrier for Controlled Release of Drugs	Pawandeep Kour, Saima Afzal, Adil Gani, Mohammed Iqbal Zargar, Umar Nabi Tak, Showkat Rashid, Aijaz Ahmad Dar	Food Chemistry	2022	0308-8146	<a href="https://doi.org/10.1016/j.foodchem.2021.131925">https://doi.org/10.1016/j.foodchem.2021.131925</a>
74	Surfactant and Polymer-Based Self-Assemblies for Encapsulation, Protection, and Release of Nutraceuticals	Saima Afzal, Mohd Sajid Lone, Pawandeep Kaur, Firdous Ahmad Ahanger, Nighat Nazir, Aijaz Ahmad Dar	Handbook of nutraceuticals and natural products: biological, medicinal, and nutritional properties and applications	2022		
75	Micelle-guided Morita–Baylis–Hillman reaction of ketones in water	Mohmad Muzafar Wani, Aijaz Ahmad Dar, Bilal A Bhat	Organic & Biomolecular Chemistry	2022	1477-0539	<a href="https://doi.org/10.1039/D2OB00638C">https://doi.org/10.1039/D2OB00638C</a>

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79	.Isolation and Characterization of Flavonoid Naringenin and Evaluation of Cytotoxic and Biological Efficacy of Water Lilly (NymphaeamexicanaZucc.).	Din, S.; Hamid, S.; Yaseen, A.; Yattoo, A.M.; Ali, S.; Shamim, K.; Mahdi, W.A.; Alshehri, S.; Rehman, M.U.; Shah, W.A	Plants	2022	2223-7747	<a href="https://doi.org/10.3390/plants11243588">https://doi.org/10.3390/plants11243588</a>
80	Enhanced Multifunctional Electrocatalytic Activity of Pt-Co Nanoalloy-Decorated Graphene Oxide Sheets through Strong Metal-Support Interaction	S Jha, N Hassan, MA Bhat, PP Ingole	Energy & Fuels 36 (24), 15055-15065	2022	0887-0624	<a href="https://doi.org/10.1021/acs.energyfuels.2c02566">https://doi.org/10.1021/acs.energyfuels.2c02566</a>
81	Imidazolium Based Surface Active Ionic Liquids: Promising Boosters to Enhance the Radical Scavenging and Antioxidant Activity of Conventional Surfactant Solubilised Quercetin	Fayaz Ahmad Butt, Murtaza Manzoor Bhat, Umar Rashid, Imtiyaz Ahmad Lone, Parvaiz Ahmad Bhat, Sajad Ahmad Bhat, Mudasir Ahmad Rather, Ghulam Mohammad Rather, Mohsin Ahmad Bhat	Catalysis Letters, 1-10	2022	1572879X	<a href="https://doi.org/10.1007/s10562-021-03738-x">https://doi.org/10.1007/s10562-021-03738-x</a>

82	Synthesis of Novel One-Walled meso-Phenylboronic Acid-Functionalized Calix[4]pyrrole: A Highly Sensitive Electrochemical Sensor for Dopamine	IA Rather, FA Sofi, MA Bhat, R Ali	ACS omega 7 (17), 15082-15089	2022	2470-1343	<a href="https://doi.org/10.1021/acsomega.2c00926">https://doi.org/10.1021/acsomega.2c00926</a>
83	Enhanced Multifunctional Electrocatalytic Activity of Pt-Co Nanoalloy-Decorated Graphene Oxide Sheets through Strong Metal-Support Interaction	S Jha, N Hassan, MA Bhat, PP Ingole	Energy & Fuels 36 (24), 15055-15065	2022	0887-0624	<a href="https://doi.org/10.1021/acs.energyfuels.2c02566">https://doi.org/10.1021/acs.energyfuels.2c02566</a>
84	Imidazolium Based Surface Active Ionic Liquids: Promising Boosters to Enhance the Radical Scavenging and Antioxidant Activity of Conventional Surfactant Solubilised Quercetin	Fayaz Ahmad Butt, Murtaza Manzoor Bhat, Umar Rashid, Imtiyaz Ahmad Lone, Parvaiz Ahmad Bhat, Sajad Ahmad Bhat, Mudasir Ahmad Rather, Ghulam Mohammad Rather, Mohsin Ahmad Bhat	Catalysis Letters, 1-10	2022	1572879X	<a href="https://doi.org/10.1007/s10562-021-03738-x">https://doi.org/10.1007/s10562-021-03738-x</a>
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86	CsPbBr <sub>3</sub> perovskite nanoplatelets: Excellent probes for spectrofluorimetric sensing of chloride and arsenite	Q Jan, S Nabi, FA Sofi, MA Bhat	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 270, 120749	2022	13861425	<a href="https://doi.org/10.1016/j.saa.2021.120749">https://doi.org/10.1016/j.saa.2021.120749</a>
87	Metal-organic framework functionalized sulphur doped graphene: a promising platform for selective and sensitive electrochemical sensing of acetaminophen, dopamine and H <sub>2</sub> O <sub>2</sub>	S Nabi, FA Sofi, N Rashid, PP Ingole, MA Bhat	New Journal of Chemistry 46 (4), 1588-1600	2022	11440546	<a href="https://doi.org/10.1039/D1NJ04041C">https://doi.org/10.1039/D1NJ04041C</a>
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90	Molecular salts of the isoniazid derivatives. Expanding the scope of sulfonate-pyridinium synthon to design materials	AA Ganie, R Marimuthu, ST Islam, S Narang, AA Dar	Journal of Solid State Chemistry 307, 122762	2022	224596	<a href="https://doi.org/10.1016/j.jssc.2021.122762">https://doi.org/10.1016/j.jssc.2021.122762</a>
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100	Diphenyldiselenide modulated charge transport dynamics, impedance spectroscopy and temperature sensing behaviour of polythiophene	T Jan, SK Moosvi, MH Najar, GM Peerzada, MA Rizvi	Journal of Materials Science: Materials in Electronics 33 (10), 8179-8192	2022	0957-4522	<a href="https://doi.org/10.1007/s10854-022-07969-5">https://doi.org/10.1007/s10854-022-07969-5</a>
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105	Magnetic, Electrical and Humidity Sensing Properties of Multiferroic GdCrO <sub>3</sub> Nanoparticles Fabricated by Metal Organic Precursor Method	Irfan H. Lone, Huma Khan, Irshad A. Wani, Arvind Kumar Jain, Tokeer Ahmad	ChemistrySelect	2022	2365-6549	<a href="https://doi.org/10.1002/slct.202202547">https://doi.org/10.1002/slct.202202547</a>



106	Metal–Organic Precursor Synthesis, Structural Characterization, and Multiferroic Properties of GdFeO <sub>3</sub> Nanoparticles	Irfan H. Lone, Huma Khan, Arvind K. Jain, Jahangeer Ahmed, Kandalam V. Ramanujachary Kandalam V. Ramanujachary Department of Chemistry and Biochemistry, Rowan University, Glassboro, New Jersey 08028, United States More by Kandalam V. Ramanujachary , and Tokeer Ahmad	ACS Omega	2022	2470-1343	<a href="https://doi.org/10.1021/acsomega.2c02809">https://doi.org/10.1021/acsomega.2c02809</a>
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111	Effect of interfacially-engineered nanoemulsions of linoleic acid stabilized by mixed surfactant systems and curcumin on their physicochemical properties, induction times and ...	Pawandeep Kour, Aijaz Ahmad Dar	Journal of Molecular Liquids	2023	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2023.122243">https://doi.org/10.1016/j.molliq.2023.122243</a>
112	Revisiting the BODIPY-borane dyad for the design of efficient aqueous phase molecular probes for anion recognition: A DFT/TD-DFT study	Haamid Rasool Bhat, Aijaz Ahmad Dar	Journal of Photochemistry and Photobiology A: Chemistry	2023	1873-2666	<a href="https://doi.org/10.1016/j.jphotochem.2023.114603">https://doi.org/10.1016/j.jphotochem.2023.114603</a>
113	Interracially Modified Hybrid Nanoemulsion-Based Alginate Capsules: A Novel Food Grade System with Enhanced Oxidative Stability of Linoleic Acid with a Potential Antioxidant ...	Pawandeep Kour, Aijaz Ahmad Dar	ACS Food Science & Technology	2023	2692-1944	<a href="https://doi.org/10.1021/acsfoodscitech.3c00032">https://doi.org/10.1021/acsfoodscitech.3c00032</a>
114	Rheological, morphological and swelling properties of dysprosium-based composite hydrogel beads of alginate and chitosan: A promising material for the effective cationic and ...	Sohail Amin Malik, Aijaz Ahmad Dar, Javid Ahmad Banday	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2023	1873-4359	<a href="https://doi.org/10.1016/j.colsurfa.2023.131046">https://doi.org/10.1016/j.colsurfa.2023.131046</a>
115	Bergenia stracheyi extract-based hybrid hydrogels of biocompatible polymers with good adhesive, stretching, swelling, self-healing, antibacterial, and antioxidant properties	Umar Nabi Tak, Showkat Rashid, Pawandeep Kour, Nighat Nazir, Mohammed Iqbal Zargar, Aijaz Ahmad Dar	International Journal of Biological Macromolecules	2023	1879-0003	<a href="https://doi.org/10.1016/j.ijbiomac.2023.123718">https://doi.org/10.1016/j.ijbiomac.2023.123718</a>
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118	A composite polyvinyl alcohol–medicinal plant extract crosslinked hydrogel: a novel soft system with excellent rhodamine B adsorption and significant antifungal activity	Umar Nabi Tak, Showkat Rashid, Firdaus Ahmad Ahangar, Pawandeep Kour, Arjumund Shaheen, Saima Sidiq, Ayaz Ahmad Manhas, Nighat Nazir, Aijaz Ahmad Dar	New Journal of Chemistry	2023	1369-9261	<a href="https://doi.org/10.1039/D3NJ02229C">https://doi.org/10.1039/D3NJ02229C</a>
119	Luminescent and self-healing hybrid ionotropic hydrogel beads of ammonium metavanadate and chitosan: promising biomaterial as an antimicrobial agent, efficient dye adsorbent ...	Arjumund Shaheen, Mohammed Iqbal Zargar, Aijaz Ahmad Dar	Soft Matter	2023	1744-6848	<a href="https://doi.org/10.1039/D2SM01639G">https://doi.org/10.1039/D2SM01639G</a>
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122	Biological and computational studies of Novel Scaffolds of Gallic Acid: insight from Density Functional Theory and Molecular Docking Studies	Shariqah Hijazi, Nayeem Ahmed, Hitler Louis, Imojara Anna and Wajaht A. Shah	Analytical chemistry letters	2023	22297928	<a href="https://doi.org/10.1080/22297928.2023.2283451">https://doi.org/10.1080/22297928.2023.2283451</a>
123	Photoseeded Silver on Two-Dimensional Nanosheets of Cu-Porphyrin Metal–Organic Framework as a Tandem Electrocatalyst for Highly Efficient Electrochemical Reduction of CO <sub>2</sub> to CH <sub>4</sub>	FA Sofi, P Kalra, MM Bhat, AA Wani, SA Bhat, AY Bhat, K Majid, PP Ingole, Mohsin Ahmad Bhat	<i>ACS Appl. Nano Mater.</i> 2023, 6, 21, 19689–19700	2023	25740970	<a href="https://doi.org/10.1021/acsanm.3c03448">https://doi.org/10.1021/acsanm.3c03448</a> \\

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125	Tailoring Motif and Channel Terminating Groups of Conventional Copper MOFs for Their Enhanced Activity, Selectivity, and Stability toward the Electroreduction of CO <sub>2</sub> to hydrocarbons	N Rashid, FA Dar, MA Bhat, PP Ingole	ACS Applied Energy Materials 6 (3), 1378-1388	2023	2574-0962	<a href="https://doi.org/10.1021/acsaem.2c03237">https://doi.org/10.1021/acsaem.2c03237</a>
126	The Enhanced Electrocatalytic Performance of Nanoscopic Cu <sub>6</sub> Pd <sub>12</sub> Fe <sub>12</sub> Heterometallic Molecular Box Encaged Cytochrome c	S Nabi, FA Sofi, Q Jan, AY Bhat, P Ingole, M Bayati, MA Bhat	Nanoscale	2023	2040-3372	<a href="https://doi.org/10.1039/D3NR03451H">https://doi.org/10.1039/D3NR03451H</a>
127	N-doped reduced Graphene Oxide Supported PtAg Alloys as Efficient Electrocatalysts for Urea Electrooxidation Reaction	I Amin, SA Bhat, MM Bhat, FA Sofi, AY Bhat, P Ingole, R Mondal, Musthafa Ottakam Thotiyl, Mohsin Ahmad Bhat	New Journal of Chemistry	2023	11440546	<a href="https://doi.org/10.1039/D3NJ04229D">https://doi.org/10.1039/D3NJ04229D</a>
128	Pharmaceutical Cocrystals: A Perspective on Development and Scale-up of Solution Cocrystallization	A Saha, AA Ahangar, AA Dar, S Thirunahari, JV Parambil	Cryst. Growth Des. 2023, 23, 11, 7558–7581	2023	15287505	<a href="https://doi.org/10.1021/acs.cgd.2c01553">https://doi.org/10.1021/acs.cgd.2c01553</a>
129	Mechanistic insights into the aggregation-induced emission of halogenated Schiff base fluorescent probes	AA Ahangar, AA Malik, I Ahmad, AA Dar	Dyes and Pigments 220, 111742	2023	0143-7208	<a href="https://doi.org/10.1016/j.dyepig.2023.111742">https://doi.org/10.1016/j.dyepig.2023.111742</a>
130	Switching the Solid-State Emission of Organic Crystals through Coformer Choice and Vapochromism	I Ahmad, AA Dar	J. Phys. Chem. C 2023, 127, 37, 18684–18693	2023	1932-7447	<a href="https://doi.org/10.1021/acs.jpcc.3c03787">https://doi.org/10.1021/acs.jpcc.3c03787</a>

131	A high Z' structure of an organic salt with unusually high phase stability, nanoindentation, and mechano and vapo-fluorochromism	Ishtiyaq Ahmad, Arshid A Ganie, Shamim Ahmad, Aadil A Ahangar, C Malla Reddy, Aijaz A Dar	CrystEngComm, 2023,25, 3164-3170	2023	1466-8033	<a href="https://doi.org/10.1039/D2CE01693A">https://doi.org/10.1039/D2CE01693A</a>
132	Physicochemical and Anti-fungal Studies of the Pharmaceutical Co-crystal/Salt of Fluconazole	AA Ahangar, H Qadri, AA Malik, MA Mir, AH Shah, AA Dar	Mol. Pharmaceutics 2023, 20, 7, 3471–3483	2023	15438384	<a href="https://doi.org/10.1021/acs.molpharmaceut.3c00087">https://doi.org/10.1021/acs.molpharmaceut.3c00087</a>
133	Hetero-Aggregation-Induced Tunable Emission in Multicomponent Crystals	AA Ganie, AA Ahangar, A Dhir, AK Gupta, AA Da	The Journal of Physical Chemistry C 127 (19), 9257-9267	2023	1932-7447	<a href="https://doi.org/10.1021/acs.jpcc.3c00178">https://doi.org/10.1021/acs.jpcc.3c00178</a>
134	Multi-Stimuli-Responsive Organo-Sulfonated Anil and Its Organic Complex	I Ahmad, AA Malik, AA Dar	Crystal Growth & Design 22 (11), 6483-6492	2023	15287505	<a href="https://doi.org/10.1021/acs.cgd.2c00693">https://doi.org/10.1021/acs.cgd.2c00693</a>
135	AIE in the halogenated anils and their utilization as fluorescent probes for explosive nitroaromatics	AA Ahangar, I Ahmad, AA Dar	New J. Chem., 2023,47, 4775-4783	2023	1369-9261	<a href="https://doi.org/10.1039/D2NJ05306C">https://doi.org/10.1039/D2NJ05306C</a>
136	Molecular interactions of diphenyldiselenide in DMSO and varied weight% of ethanol in DMSO solvent media at different compositions and temperatures (288.15 to 318.15) K	S Raheem, A Kumar, GM Peerzada, MA Rizvi	Journal of Molecular Liquids 390, 122941	2023	0167-7322	<a href="https://doi.org/10.1016/j.molliq.2023.122941">https://doi.org/10.1016/j.molliq.2023.122941</a>
137	Multiparametric Investigations on Solvation Behaviour and Spectral Shifts of Symmetric Aromatic Diselenides: A case study of Diphenyldiselenide	S Raheem, Richu, T Jan, M Mustafa, GM Peerzada, A Kumar, MA Rizvi	Physics and Chemistry of Liquids, 1-12	2023	1029-0451	<a href="https://doi.org/10.1080/00319104.2023.2248343">https://doi.org/10.1080/00319104.2023.2248343</a>
138	Crystal Structure, quantum chemical analysis and apoptotic propensity of diaryl substituted $\alpha$ -aminophosphonates as selected CP bonded systems	S Raheem, T Jan, A Qayum, O Yadav, M Mustafa, A Ansari, GM Peerzada, S K Singh, M A Rizvi	Polyhedron 244 (37), 116597	2023	0277-5387	<a href="https://doi.org/10.1016/j.molliq.2020.114353">https://doi.org/10.1016/j.molliq.2020.114353</a>

139	Visible-Light-Mediated Synthesis of N-Acyl-N,O-hemiacetals from Terminal Alkynes: Access to N,N-, N,S-, and N,O-Acetals	MA Ganie, F Fayaz, MS Bhat, MA Rizvi, S Raheem, BA Shah	Organic Letters 25(46)	2023	1523-7060	<a href="https://doi.org/10.1021/acs.orglett.3c03263">https://doi.org/10.1021/acs.orglett.3c03263</a>
140	Studies towards investigation of Naphthoquinone-based scaffold with crystal structure as lead for SARS-CoV-19 management	SM Ansari, G Khanum, MA Rizvi, NUD Reshi, MA Ganie, S Javed, B A Shah	Journal of Molecular Structure 1283(4), 135256	2023	0022-2860	<a href="https://doi.org/10.1016/j.molstruc.2023.135256">https://doi.org/10.1016/j.molstruc.2023.135256</a>
141	Antituberculosis Propensity of Synthetic Biscoumarin Derivatives: An In Silico and In Vitro Approach	BA Sheikh, BA Bhat, H Zareen, MA Rizvi, Z Ahmad, M Alkhanani, A Almilaibary, S A Alsagaby, M A Mir		2023		<a href="https://doi.org/10.20944/preprints202303.0502.v1">https://doi.org/10.20944/preprints202303.0502.v1</a>
142	Electronic structures and ligand effect on redox potential of iron and cobalt complexes: a computational insight	M Kumar, MK Gupta, MA Rizvi, A Ansari	Structural Chemistry 34(4), 1-11	2023	15729001	<a href="https://doi.org/10.1007/s11224-022-02119-3">https://doi.org/10.1007/s11224-022-02119-3</a>
143	Exploiting multiferroicity of TbFeO <sub>3</sub> nanoparticles for hydrogen generation through photo/electro/photoelectro-catalytic water splitting	Huma Khan, Irfan Hussain Lone, Samuel Edward Lofl and, Kandalam Venkata Ramanujachary, Tokeer Ahmad	International Journal of Hydrogen Energy	2023	1879-3487	<a href="https://doi.org/10.1016/j.ijhydene.2022.11.143">https://doi.org/10.1016/j.ijhydene.2022.11.143</a>
144	Design and development of a Sb <sub>2</sub> WO <sub>6</sub> /graphene oxide (2D) nanocomposite as novel electrochemical metal-ion sensor and improved photocatalyst for the degradation of tetracycline	Ziaul haq ,I Nazir, A Qureashi, FA Ganaie, A Bashir, K Fatima, WA Shah, MA Rizvi	New Journal of Chemistry 47(1)	2023	1369-9261	<a href="https://doi.org/10.1039/D3NJ04093C">https://doi.org/10.1039/D3NJ04093C</a>
145	Harnessing the power of gold: advancements in anticancer gold complexes and their functionalised nanoparticles	M.A. Malik, A.A. Hashmi, M.Y. wani	Journal of Materials Chemistry B	2024	2050-750X	<a href="http://doi.org/10.1039/D3TB01976D">http://doi.org/10.1039/D3TB01976D</a>

146	Unravelling the anticancer potential of a square planar copper complex: toward non-platinum chemotherapy	M.A. Malik, Md. K. Raza, A. Mohammad, A.A. Hashmi, M.Y. wani	RSC Advances	2021	20462069	<a href="http://doi.org/10.1039/D1RA06227A">http://doi.org/10.1039/D1RA06227A</a>
147	Pd-catalyzed bidentate auxiliary assisted remote C (sp <sup>3</sup> )-H functionalization	K. Talukdar, Tariq A. Shah†, T.Sarkar, S.Roy, P. K Maharana, T.Punniyamurthy	Chem. Commun	2021	1359-734	<a href="http://DOI.org/10.1039/d1cc05291h">http://DOI.org/10.1039/d1cc05291h</a>
148	“Transition-Metal catalysed Directing group assisted (hetero) aryl C-H functionalization: Construction of C-C/C-H heteroatom Bonds”	T.Sarkar, Tariq A. Shah†, P. K Maharana, K.Talukdar, B. K Das, T.Punniyamurthy	The Chemical Record	2021	2052-4129	<a href="http://doi.org/10.1002/tcr.202100143">http://doi.org/10.1002/tcr.202100143</a>
149	Tetrahalomethanes: Multitasking agents as mediator, catalyst and reagent in organic synthesis	Sandeep Kumar, Tariq A. Shah and T. Punniyamurthy	Organic Chemistry Frontier	2021	1099-0690	<a href="http://doi.org/10.1002/ejoc.202200541">http://doi.org/10.1002/ejoc.202200541</a>
150	Dual Metallaphotoredox-Catalyzed Directed C(sp <sup>2</sup> )-H Functionalization: Access to C-C/C-Heteroatom Bonds	Tanumay Sarkar, Dr. Tariq A. Shah†, Prabhat Kumar Maharana, Bijoy Debnath, T.Punniyamurthy	European Journal of Organic Chemistry	2022	1099-0690.	<a href="http://doi.org/10.1002/ejoc.202200541">http://doi.org/10.1002/ejoc.202200541</a>
151	Copper hexacyanoferrate/carbon nanostructure hybrids: electrochemically switched ion-exchange electrodes for the sustainable removal of cesium from water	P Jain, H Devnani, N Sandal, S Nabi, MA Bhat, PP Ingole	Journal of Environmental Chemical Engineering	2022	106918	<a href="https://doi.org/10.1016/j.jece.2021.106918">doi.org/10.1016/j.jece.2021.106918</a>
152	Syntheses, Structural Characterization, and Cytotoxicity Assessment of Novel Mn(II) and Zn(II) Complexes of Aroyl-Hydrazone Schiff Base Ligand	Masrat Bashir, Aijaz A. Dar, and Imtiyaz Yousuf	ACS OMEGA	2023	2470-1343	<a href="https://doi.org/10.1021/acsomega.2c05927">https://doi.org/10.1021/acsomega.2c05927</a>
153	Interfacial Synthesis of Prussian Blue-Decorated Sulfur-Doped Reduced	Adil Amin Wani, Qounsar Jan, Murtaza	ACS Applied Nano Materials	2023	19218-19229	<a href="https://doi.org/10.1021/acsanm.3c03639">https://doi.org/10.1021/acsanm.3c03639</a>

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154	Phytochemical profile, cytotoxic assay, antibacterial activity and In-silico evaluation of essential oil extracted from Nepeta nervosa, blue moon Analytical chemistry letters	Shariqah Hijazi, Irshad A. Nawchoo, Mohammed iqbal zargar, and Wajaht A. Shah	Analytical chemistry letters	2023	2230-7532	<a href="https://doi.org/10.1080/22297928.2023.2288032">https://doi.org/10.1080/22297928.2023.2288032</a>
155	Facile synthesis of surface functionalized fluorescent carbon quantum-dots for selective detection of ferric Ions	Shariqah Hijazi, A. Shafi Ganie, Mohammed M .Rahman, and Wajaht A. Shah	Environmental Science: Nano	2023	2051-8153	<a href="https://doi.org/10.1039/D3EN00376K">https://doi.org/10.1039/D3EN00376K</a>
156	Synthesis, bio-evaluation, Molecular docking and density functional theory (DFT) calculation of new derivatives of benzodiazapienes	Parvaiz A. Dar, Naseer A. Dar, Enaitullah Rather, Wajaht A. Shah	Journal of biomolecular structure and dynamics	2023	1538-0254	<a href="https://doi.org/10.6084/m9.figshare.25205305.v1">https://doi.org/10.6084/m9.figshare.25205305.v1</a>
157	Synthesis of a Novel Hydrazone Functionality based Spectrophotometric Probe for Selective and Sensitive Estimation of Toxic Heavy Metal Ions	Zainab Amin, Tabasum Rauf, Qonsar Jan, Mohammad Yaseen Kuchey, Feroz Ahmad Sofi, Tabasum Ismail, Auqib Rashid, Bilal	Chemistry Select	2023	e202202632	<a href="https://doi.org/10.1002/slct.202202632">https://doi.org/10.1002/slct.202202632</a>



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158	N-doped reduced Graphene Oxide Supported PtAg Alloys as Efficient Electrocatalysts for Urea Electrooxidation Reaction	I Amin, SA Bhat, MM Bhat, FA Sofi, AY Bhat, P Ingole, R Mondal, Musthafa Ottakam Thotiyl, Mohsin Ahmad Bhat	New Journal of Chemistry	2023	11440546	<a href="https://doi.org/10.1039/D3NJ04229D">https://doi.org/10.1039/D3NJ04229D</a>
159	Deciphering the chemical constituents and antimicrobial activity of prangos prabularia using LC-MS/MS in combination with experimental evaluation and computational studies	Aadil Yaseen and Wajahat Amin Shah	Natural Product Research	2024	1478-6419	<a href="https://doi.org/10.1080/14786419.2023.2300394">https://doi.org/10.1080/14786419.2023.2300394</a>
160	Visible-Light-Mediated Synthesis of Thioesters Using Thiocarboxylic Acid as the Dual Reagent	MS Bhat, MA Ganie, S Kumar, MA Rizvi, S Raheem, BA Shah	The Journal of Organic Chemistry	2024	0022-3263	DOI:10.1021/acs.joc.3c02877
161	Photocatalytic evaluation of CuO and ZnO crystallites synthesized hydrothermally using binary eugenol/iso-eugenol mixtures: isomer effects on the capping propensity of biogenic agents	T Jan, S Raheem, SV Sawant, TV Manolikar, SS Sakate, SK Pardeshi, RM Jagtap, MARizvi	New Journal of Chemistry	2024	1369-9261	<a href="https://doi.org/10.1039/d3nj05237k">https://doi.org/10.1039/d3nj05237k</a>
162	Solubilization and 1, 1-diphenyl-2-picrylhydrazyl antiradical activity of butylated hydroxyanisole in aqueous surfactant micelles	S Shafi, SJ Andrabi, G Kumar, PA Bhat, AA Dar, OA Chat	Journal of Surfactants and Detergents	2024	1558-9293	<a href="https://doi.org/10.1002/jsde.12712">https://doi.org/10.1002/jsde.12712</a>
163	Kinetic and adsorption isotherm studies of Malachite Green dye onto surfactant-tailored alginate hydrogel beads: An influence of surfactant hydrophobicity	SA Malik, AA Dar, JA Bandy	International Journal of Biological Macromolecules	2024	1879-0003	<a href="https://doi.org/10.1016/j.ijbiomac.2024.130318">https://doi.org/10.1016/j.ijbiomac.2024.130318</a>

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165	Engineering the solid-state luminescence of organic crystals and cocrystals	Aijaz A. Dar, Shaista H. Lone, Ishtiyaq Ahmad, Aadil A. Ahangar, Arshid A. Ganie and Cherumannil Femina	Materials Advances	2024	2633-5409	<a href="https://doi.org/10.1039/D3MA00853C">https://doi.org/10.1039/D3MA00853C</a>
166	The enhanced electrocatalytic performance of nanoscopic Cu <sub>6</sub> Pd <sub>12</sub> Fe <sub>12</sub> heterometallic molecular box encaged cytochrome	S Nabi, FA Sofi, Q Jan, AY Bhat, PP Ingole, M Bayati, MA Bhat	Nanoscale	2024	411-426	<a href="https://doi.org/10.1039/D3NR03451H">https://doi.org/10.1039/D3NR03451H</a>
167	Mechanistic insights into the electrolyte effects on the electrochemical nitrogen reduction reaction using copper hexacyanoferrate/f-MWCNT nano-composites	AY Bhat, P Jain, MA Bhat, PP Ingole	Physical Chemistry Chemical Physics	2024	1777-1791	<a href="https://doi.org/10.1039/D3CP04302A">https://doi.org/10.1039/D3CP04302A</a>
168	SnS <sub>2</sub> decorated biochar: a robust platform for the photocatalytic degradation and electrochemical sensing of pollutants	FA Ganaie, A Bashir, A Qureshi, I Nazir, K Fatima, AH Pandith, MA Bhat	New Journal of Chemistry	2024	7111-7124	<a href="https://doi.org/10.1039/D4NJ00231H">https://doi.org/10.1039/D4NJ00231H</a>
169	Smartphone-Assisted Contact Angle Measurements: A Simple Approach to Determine the Critical Micelle Concentration of Surfactants	Mudeha Shafat Khan, Adil Amin Wani, Qonsar Jan, Murtaza Manzoor Bhat,	Journal of Chemical Education	2024	1198–1203	<a href="https://doi.org/10.1021/acs.jchemed.3c00953">https://doi.org/10.1021/acs.jchemed.3c00953</a>
170	Chemical profile antituberculosis, DSC and molecular docking studies of Mentha longifolia essential oil	Naseer Ahmad Dar, Mahpara Qadir, Shah Nawaz Ahmad Wani and Wajaht Amin Shah	Natural Product Research	2024	1478-6427	<a href="https://doi.org/10.1080/14786419.2024.233714">https://doi.org/10.1080/14786419.2024.233714</a>