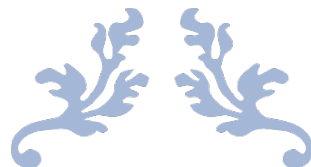


DEPARTMENT OF CHEMISTRY

UNIVERSITY OF KASHMIR



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)

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

Total No. of Publications (2019-2024) = 187

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	https://doi.org/10.1021/acs.jpcc.9b07139
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	https://doi.org/10.1016/j.molliq.2018.11.118
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	https://doi.org/10.1016/j.molliq.2019.04.044
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	https://doi.org/10.1246/bcsj.20180215
5	Self-Assembled Monolayers of Vitamin B12 over N-Doped Graphene: A Promising Electro-Catalyst for Hydrogen Evolution and Electro-Oxidative Sensing of H ₂ O ₂	MA Bhat, SA Bhat	Electrochemical Society Meeting Abstracts ecee2019, 432-432	2019	1091-8213	https://DOI.org/10.1149/MA2019-04/9/432
6	Cu ²⁺ -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	https://doi.org/10.1039/C8NJ06224B

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	https://doi.org/10.1016/j.molliq.2019.111129
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	https://doi.org/10.1007/s10562-019-02798-4
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	https://doi.org/10.1021/acs.cgd.9b00555
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	https://doi.org/10.1021/acs.cgd.8b01914
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	https://doi.org/10.1016/j.inoche.2019.05.027
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	https://doi.org/10.1002/slct.2
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	https://doi.org/10.1021/acs.joc.9b00855
14	Photoredox-Mediated Generation of gem-Difunctionalized Ketones: Synthesis of α,α -Aminothioketones	N Chalotra, MA Rizvi, BA Shah	Organic letters 21 (12), 4793-4797	2019	1523-7060	https://doi.org/10.1021/acs.orglett.9b01677

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	https://doi.org/10.17344/acsi.2018.4843
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	https://doi.org/10.1016/j.polymer.2018.12.044
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	https://doi.org/10.13005/msri/160306
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, Pawandeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	New Journal of Chemistry	2020	1369-9261	https://doi.org/10.1039/D0NJ02496A
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	https://doi.org/10.1016/j.chemosphere.2019.12160
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	https://doi.org/10.1016/j.molliq.2020.112477

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	https://doi.org/10.1016/j.molliq.2020.114353s
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	https://doi.org/10.1080/14786419.2018.1557178
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	https://doi.org/10.1021/acsoomega.0c04029
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	https://doi.org/10.1016/j.cplett.2020.137724
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	https://doi.org/10.1016/j.jbiomac.2020.04.033
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	https://doi.org/10.1016/j.jcou.2020.101178
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	https://doi.org/10.1016/j.inoche.2020.107949
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	https://doi.org/10.1016/j.jcou.2020.02.017

29	Vitamin B12 functionalized N-doped graphene: a promising electro-catalyst For hydrogen evolution and electro-oxidative sensing of H ₂ O ₂	SA Bhat, N Rashid, MA Rather, SA Pandit, PP Ingole, MA Bhat	Electrochimica Acta 337, 135730	2020	0013-4686	https://doi.org/10.1016/j.electacta.2020.135730
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	https://doi.org/10.1039/D0CP01932A
31	Electrochemical reduction of CO ₂ 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	https://doi.org/10.1039/D0RA02754E
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	https://doi.org/10.1039/C9CP07040K
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	https://doi.org/10.1039/D0CE00346H
34	Irreversible Thermochromism in organic salts of sulfonated Anils	AA Dar, AA Ganie	Crystal Growth & Design 20 (6), 3888-3897	2020	15287505	https://doi.org/10.1021/acs.cgd.0c00188
35	Complexation Modulated Iron Redox Systems for Waste Water Treatment: A Natural Attenuation Model	S Bashir, SM Bandy, M Mustafā, MA Rizvi	ChemistrySelect 5 (35), 10945-10952	2020	2365-6549	https://doi.org/10.1002/slct.202002241

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	https://doi.org/10.1021/acs.orglett.0c02055
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	https://doi.org/10.1007/s11664-020-08117-7
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	https://doi.org/10.1016/j.apsusc.2020.145930
39	Photo-oxidation Coupled Kabachnik–Fields and Bigenelli reactions for Direct Conversion of Benzyl alcohols to α -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	https://doi.org/10.17344/acsi.2019.5348
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	https://doi.org/10.1039/D0CP00253D
41	Solubility of organic compounds in scCO ₂	NUD Reshi, MA Rizvi, SK Moosvi, M Ahmad, A Gani,	Green Sustainable Process for Chemical and Environmental Engineering and Science, 379-411	2020	9.78013E+12	https://doi.org/10.1016/B978-0-12-817388-6.00016-7
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.	https://doi.org/10.1557/s43578-021-00361-9

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	https://doi.org/10.1016/j.colsurfa.2021.127223
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	https://doi.org/10.1016/j.molliq.2021.116583
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, Pawandeeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Colloid and Polymer Science	2021	1435-1536	https://doi.org/10.1007/s00396-021-04841-6
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	https://doi.org/10.1021/acs.langmuir.1c00785
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	https://doi.org/10.1021/acsomega.1c01119
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	https://doi.org/10.1016/j.ijbiomac.2021.03.041

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.	https://doi.org/10.1021/acsomega.1c00469
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	https://doi.org/10.1016/j.foodchem.2020.128168
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	https://doi.org/10.1039/D0SM01625J
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	https://doi.org/10.1039/D0NJ02496A
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	https://doi.org/10.1080/14786419.2019.1613990
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	https://doi.org/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	https://doi.org/10.1016/j.molliq.2021.115696
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	2021	0013-4686	https://doi.org/10.1016/j.electacta.2020.137655
57	Surface active ionic liquid assisted metal-free electrocatalytic-carboxylation in aqueous phase: a sustainable approach for CO ₂ 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	2021	14639262	https://doi.org/10.1039/D1GC03412J
58	Nano-spinel cobalt decorated sulphur doped graphene: an efficient and durable electrocatalyst for oxygen evolution reaction and non-enzymatic sensing of H ₂ O ₂	AA Wani, MM Bhat, FA Sofi, SA Bhat, PP Ingole, N Rashid, MA Bhat	New Journal of Chemistry 45 (34), 15544-15554	2021	11440546	https://doi.org/10.1039/D1NJ02383G
59	Water Switched Reversible Thermochromism in Organic Salt of Sulfonated Anil	AA Ganie, AA Dar	Crystal Growth & Design 21 (5), 3014-3023	2021	15287505	https://doi.org/10.1021/acs.cgd.1c00189
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	https://doi.org/10.1039/D0NJ05485B
61	Organic co-crystal semiconductors: a crystal engineering perspective	AA Dar, S Rashid	CrystEngComm 23 (46), 8007-8026	2021	1418130	https://doi.org/10.1039/D0NJ05485B

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	https://doi.org/10.1021/acs.joc.1c01992
63	A photosensitized metal free approach to α -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	https://doi.org/10.1002/slct.202101511
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	http://dx.doi.org/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	https://doi.org/10.1007/s00542-018-4125-6
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	https://doi.org/10.1016/j.molliq.2021.115891
67	A Switching-Type Positive Temperature Coefficient Behavior Exhibited by PPy/(PhSe) ₂ 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	https://doi.org/10.1021/acsomega.0c05799
68	Photoredox-Mediated Synthesis of β -Hydroxydithioacetals from Terminal Alkynes	F Manzer Manhas, J Kumar, S Raheem, P Thakur, MA Rizvi, BA Shah	ChemPhotoChem 5 (3), 235-239	2021	23670932	https://doi.org/10.1002/cptc.202000237
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	https://doi.org/10.1021/acs.jpcc.0c08111

70	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	https://doi.org/10.1021/acs.jpcc.0c08111
71	In vitro and in silico evaluation of structurally diverse benzyl-pyrrolidine-3-ol analogues as apoptotic agents via caspase activation	T Naqvi, A Amin, S Ali, MY Lone, N Bashir, SU Khan, TT Htar, MA Rizvi	Acta Chimica Slovenica 68 (3), 667-682	2021	1318-0207	https://doi.org/10.17344/acsi.2021.6684
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	https://doi.org/10.1016/j.molliq.2022.120311
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	https://doi.org/10.1016/j.foodchem.2021.131925
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		https://doi.org/10.1002/9781119746843.ch16
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	https://doi.org/10.1039/D2OB00638C

76	PEG-400 catalyzed N-C, O-C & C-S bond formations: A robust sonication promoted synthesis of benzo[d]oxazole-2 (3H)-thione&benzo[d]thiazole2(3H)- thione hybrids.	Aadil Yaseen , M A Waseem , MahaparaQadir , ShariqahHijazi , Parvaiz A Dar , Mir AshiqHussain , &Wajahat Amin Shah.	Analytical chemistry letters	2022	22297928	https://doi.org/10.1080/22297928.2022.2068376
77	.Selective and efficient synthesis of 1,5-benzodiazepin-2-one and Amino chromenes as biologically versatile scaffolds.	MahparaQadir, Aadil Yseen, AntimMaurya, Vijai Kant Agnihotri and Wajaht A. Shah.	Analytical chemistry letters	2022	22297928	https://doi.org/10.1080/22297928.2021.2019612
78	Isolation, characterization, antifungal activity validated UPLC/MS/MS method for quantification of novel compound from Artemisia tournefortianareichb	.MahparaQadir, Nisar Ahmad Dangroo, Vijai Kant Agnihotri and Wajaht A. Shah	Natural product Research	2022	1478-6419	https://doi.org/10.1080/14786419.2021.1915310
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	https://doi.org/10.3390/plants11243588
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	https://doi.org/10.1021/acs.energyfuels.2c02566
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	https://doi.org/10.1007/s10562-021-03738-x

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	https://doi.org/10.1021/acsomega.2c00926
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	https://doi.org/10.1021/acs.energyfuels.2c02566
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	https://doi.org/10.1007/s10562-021-03738-x
85	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	https://doi.org/10.1021/acsomega.2c00926
86	CsPbBr ₃ 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	https://doi.org/10.1016/j.saa.2021.120749
87	Metal-organic framework functionalized sulphur doped graphene: a promising platform for selective and sensitive electrochemical sensing of acetaminophen, dopamine and H ₂ O ₂	S Nabi, FA Sofi, N Rashid, PP Ingole, MA Bhat	New Journal of Chemistry 46 (4), 1588-1600	2022	11440546	https://doi.org/10.1039/D1NJ04041C
88	Unravelling the chemistry of catalyst surfaces and solvents towards C-C bond formation through activation and electrochemical conversion of CO ₂ into hydrocarbons over micro ...	N Rashid, MA Bhat, PP Ingole	Sustainable Energy & Fuels 6 (1), 128-142	2022	2398-4902	-

89	Multi-Stimuli-Responsive Organo-Sulfonated Anil and Its Organic Complex	I Ahmad, AA Malik, AA Dar	Crystal Growth & Design 22 (11), 6483-6492	2022	15287505	https://doi.org/10.1021/acs.cgd.2c00693
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	https://doi.org/10.1016/j.jssc.2021.122762
91	Expanding the scope of hydroxyl-pyridine supramolecular synthon to design molecular solids	AA Ganie, S Rashid, AA Ahangar, TM Ismail, PK Sajith, AA Dar	Crystal Growth & Design 22 (3), 1972-1983	2022	15287505	https://doi.org/10.1021/acs.cgd.2c00006
92	Influence of halogen substitution on crystal packing, molecular properties and electrochemical sensing	AA Ahangar, R Elancheran, AA Dar	Journal of Solid State Chemistry 314, 123382	2022	224596	https://doi.org/10.1016/j.jssc.2022.123382
93	Optimal energy management in a microgrid under uncertainties using novel hybrid metaheuristic algorithm	M Rizvi, B Pratap, SB Singh	Sustainable Computing: Informatics and Systems 36, 100819	2022	2210-5379	https://doi.org/10.1016/j.suscom.2022.100819
94	Single Crystal X-Ray Structures and Anticancer Activity Studies on Thiazolidine Derivatives	MAR, R .M.Jagtap, Sachin S.Sakate, Satish K. Pardeshi	Advances in Chemistry Research. 76	2022		https://doi.org/10.52305/KSNB2027
95	Synthesis, Antioxidant and Antibacterial Properties of Thiazolidine-4-Carboxylic Acid Derivatives	MAR Rohidas Jagtap, Sachin Sakate, Satish Pardeshi	Advances in Chemistry Research 76	2022		https://doi.org/10.52305/BSLQ8680
96	Nature-Based Computing Bioinformatics Approaches in Drug Discovery Against Promising Molecular Targets Carbonic Anhydrases and Serine/Threonine Kinases for Cancer Treatment	MN Peerzada, MA Rizvi, AK KK, A Sahu, S Verma	Nature-Inspired Intelligent Computing Techniques in Bioinformatics ,309-328	2022		https://doi.org/10.1007/978-981-19-6379-7_16
97	Photoredox-Promoted Selective Synthesis of C-5 Thiolated 2-Aminothiazoles from Terminal Alkynes	MA Ganie, MS Bhat, MA Rizvi, S Raheem, BA Shah	Organic Letters 24 (42), 7757-7762	2022	1523-7060	https://doi.org/10.1021/acs.orglett.2c03064
98	Hybrid Polymer Composite of Prussian Red Doped Polythiophene for Adsorptive Wastewater Treatment Application.	M Mustafa, S Bashir, SK Moosvi, M Najar, MH Masoodi, MA Rizvi	Acta Chimica Slovenica 69 (4)	2022	1580-3155	https://doi.org/10.17344/acsi.2022.7601

99	Photoredox Catalyzed Thioformylation of Terminal Alkynes Using Nitromethane as a Formyl Source	MS Bhat, MA Ganie, MA Rizvi, S Raheem, BA Shah	Organic Letters 24 (36), 6658-6663	2022	1523-7060	https://doi.org/10.1021/acs.orglett.2c02695
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	https://doi.org/10.1007/s10854-022-07969-5
101	Multidimensional role of silicon to activate resilient plant growth and to mitigate abiotic stress	RA Mir, BA Bhat, H Yousuf, ST Islam, A Raza, MA Rizvi, S Charagh, M Albaqami, P A Sofi, S M Zargar	Frontiers in plant science 13, 819658	2022	1664-462X	https://doi.org/10.3389/fpls.2022.819658
102	Visible-Light-Mediated Synthesis of α -Halomethyl Ketones from Terminal Alkynes	IH Shah, S Kumar, J Kumar, S Raheem, MA Rizvi, BA Shah	ChemPhotoChem 6 (3), e202100231	2022	23670932	https://doi.org/10.1002/cptc.202100231
103	Computational studies to identify potential inhibitors targeting the DPPE1 protein in Mycobacterium tuberculosis	BA Sheikh, BA Bhat, MA Rizvi, Z Ahmad, A Almilaibary, M Alkhanani,	International Journal of Pharmaceutical Investigation 13 (1), 129-138	2022	2230-9713	https://iponline.org/storage/2023/05/IntJPharmInvestigation-13-1-129.pdf
104	Synthesis of (E)- β -Iodovinyl Sulfones via Photoredox Catalyzed Difunctionalization of Terminal Alkynes	S Kumar, J Kumar, T Naqvi, S Raheem, MA Rizvi, BA Shah	ChemPhotoChem 6, 10,e202200110	2022	23670932	https://doi.org/10.1002/cptc.202200110
105	Magnetic, Electrical and Humidity Sensing Properties of Multiferroic GdCrO ₃ Nanoparticles Fabricated by Metal Organic Precursor Method	Irfan H. Lone, Huma Khan, Irshad A. Wani, Arvind Kumar Jain, Tokeer Ahmad	ChemistrySelect	2022	2365-6549	https://doi.org/10.1002/slct.202202547

106	Metal–Organic Precursor Synthesis, Structural Characterization, and Multiferroic Properties of GdFeO ₃ 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	https://doi.org/10.1021/acsomega.2c02809
107	Synthesis of 1, 2-oxazetidines with a free–NH group via photoredox catalysis	MA Ganie, MA Rizvi, S Raheem, BA Shah	Chemical Communications 58 (61), 8508-8511	2022	1359-7345	https://doi.org/10.1039/D2CC02892A
108	Visible light-mediated synthesis of α -alkoxy/hydroxy diarylacetaldehydes from terminal alkynes	J Kumar, A Ahmed, S Kumar, S Raheem, MA Rizvi, BA Shah	New Journal of Chemistry 46 (22), 10967-10973s	2022	1369-9261	https://doi.org/10.1039/D2NJ01614A
109	Micellar catalysis: Polymer bound palladium catalyst for carbon-carbon coupling reactions in water	Mani Sengoden, Gulzar A Bhat, Ryan J Rutledge, Showkat Rashid, Aijaz A Dar, Donald J Darensbourg	Proceedings of the National Academy of Sciences 2023	2023	1091-6490.	https://doi.org/10.1073/pnas.2312907120

110	Effect of in situ mixed micellization of ester-functionalized gemini surfactant at different pHs on solubilization and cosolubilization of various polycyclic aromatic ...	Showkat Rashid, Umar Nabi Tak, Mohd Sajid Lone, Oyais Ahmad Chat, Parvaiz Ahmad Bhat, Firdaus Ahmad Ahanger, Imtiyaz Ahmad Bhat, Aijaz Ahmad Dar	Environmental Pollution	2023	1873-6424	https://doi.org/10.1016/j.envpol.2023.122489
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	https://doi.org/10.1016/j.molliq.2023.122243
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	https://doi.org/10.1016/j.jphotochem.2023.114603
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	https://doi.org/10.1021/acsfoodscitech.3c00032
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	https://doi.org/10.1016/j.colsurfa.2023.131046
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	https://doi.org/10.1016/j.ijbiomac.2023.123718
116	Sensing cyclosarin (a chemical warfare agent) by Cucurbit [n] urils: A DFT/TD-DFT study	Haamid Rasool Bhat, Malay Kumar Rana, Aijaz Ahmad Dar	Journal of Molecular Structure	2023	1872-8014	https://doi.org/10.1016/j.molstruc.2022.134163

117	Interaction of HPC with CTAB and Tween 40 at Water/Air and Water/Soya Oil Interfaces	Rohi Masrat, Aijaz Ahmad Dar	Langmuir	2023	1520-5827	https://doi.org/10.1021/acs.langmuir.2c02902
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	https://doi.org/10.1039/D3NJ02229C
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	https://doi.org/10.1039/D2SM01639G
120	Synthesis, optical studies and DFT analysis of benzo[b][1,4]oxazepines and thiazepines: A promising fluorescent probe for sensing of picric acid	. Parvaiz A. Dar, Naseer A. Dar, Enaitullah Rather, Wajaht A. Shah,	Materials Today Communications	2023	2352-4928	https://doi.org/10.1016/j.mtcomm.2023.106206
121	,PEG-400 catalysed selective C-Se cross dehydrogenative coupling: An ultrasonication-assisted green strategy	Mahpara Qadir, Aadil Yaseen, Wajaht Amin Shah,	Results in Chemistry	2023	2211-7156	https://doi.org/10.1016/j.rechem.2023.100944
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	https://doi.org/10.1080/22297928.2023.2283451
123	Photoseeded Silver on Two-Dimensional Nanosheets of Cu-Porphyrin Metal–Organic Framework as a Tandem Electrocatalyst for Highly Efficient Electrochemical Reduction of CO ₂ to CH ₄	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	https://doi.org/10.1021/acsanm.3c03448

124	Design and development of a Sb ₂ WO ₆ / graphine oxide (2D) nanocomposite as novel electrochemical metal-ion sensor and improved photocatalyst for the degradation of tetracycline.	Zia-ul-haq, Irfan Nazir, AAliya Qureashi, Firdous Ahmad Ganaie, Arshid Bashir, Kaneez Fatima, Wajaht Amin Shah and Masood Ahmad Rizvi	New journal of chemistry	2023	1369-9261	https://doi.org/10.1039/D3NJ04093C
125	Tailoring Motif and Channel Terminating Groups of Conventional Copper MOFs for Their Enhanced Activity, Selectivity, and Stability toward the Electroreduction of CO ₂ to hydrocarbons	N Rashid, FA Dar, MA Bhat, PP Ingole	ACS Applied Energy Materials 6 (3), 1378-1388	2023	2574-0962	https://doi.org/10.1021/acsaeam.2c03237
126	The Enhanced Electrocatalytic Performance of Nanoscopic Cu ₆ Pd ₁₂ Fe ₁₂ Heterometallic Molecular Box Encaged Cytochrome c	S Nabi, FA Sofi, Q Jan, AY Bhat, P Ingole, M Bayati, MA Bhat	Nanoscale	2023	2040-3372	https://doi.org/10.1039/D3NR03451H
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	https://doi.org/10.1039/D3NJ04229D
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	https://doi.org/10.1021/acs.cgd.2c01553
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	https://doi.org/10.1016/j.dyepig.2023.111742
130	Switching the Solid-State Emission of Organic Crystals through Cofomer Choice and Vapochromism	I Ahmad, AA Dar	J. Phys. Chem. C 2023, 127, 37, 18684–18693	2023	1932-7447	https://doi.org/10.1021/acs.jpcc.3c03787

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	https://doi.org/10.1039/D2CE01693A
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	https://doi.org/10.1021/acs.molpharmaceut.3c00087
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	https://doi.org/10.1021/acs.jpcc.3c00178
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	https://doi.org/10.1021/acs.cgd.2c00693
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	https://doi.org/10.1039/D2NJ05306C
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	https://doi.org/10.1016/j.molliq.2023.122941
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	https://doi.org/10.1080/00319104.2023.2248343
138	Crystal Structure, quantum chemical analysis and apoptotic propensity of diaryl substituted α -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	https://doi.org/10.1016/j.poly.2023.116597

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	https://doi.org/10.1021/acs.orglett.3c03263
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	https://doi.org/10.1016/j.molstruc.2023.135256
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		https://doi.org/10.20944/preprints202303.0502.v1
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	https://doi.org/10.1007/s11224-022-02119-3
143	Exploiting multiferroicity of TbFeO ₃ 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	https://doi.org/10.1016/j.ijhydene.2022.11.143
144	Design and development of a Sb ₂ WO ₆ /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	https://doi.org/10.1039/D3NJ04093C
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	https://doi.org/10.1039/D3TB01976D

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	https://doi.org/10.1039/D1RA06227A
147	Pd-catalyzed bidentate auxiliary assisted remote C (sp ³)-H functionalization	K. Talukdar, Tariq A. Shah‡, T.Sarkar, S.Roy, P. K Maharana, T.Punniyamurthy	Chem. Commun	2021	1359-734	http://DOI.org/10.1039/d1cc05291h
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	https://doi.org/10.1002/tcr.202100143
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	https://doi.org/10.1002/tcr.202100143
150	Dual Metallaphotoredox-Catalyzed Directed C(sp ²)-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.	https://doi.org/10.1002/ejoc.202200541
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	https://doi.org/10.1016/j.jece.2021.106918
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	https://doi.org/10.1021/acsomega.2c05927
153	Interfacial Synthesis of Prussian Blue-Decorated Sulfur-Doped Reduced	Adil Amin Wani, Qousnar Jan, Murtaza	ACS Applied Nano Materials	2023	19218-19229	https://doi.org/10.1021/acsnan.3c03639

	Graphene Oxide Nanocomposite for Electrochemical Sensing and Detoxification of As (III)	Manzoor Bhat, Mohammad Yaseen Kuchey, Feroz Ahmad Sofi, Rameez A Shah, Sami Ullah Bhat, Aamir Y Bhat, Pravin P Ingole, Mohsin Ahmad Bhat				
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	https://doi.org/10.1080/22297928.2023.2288032
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	https://doi.org/10.1039/D3EN00376K
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	https://doi.org/10.1080/07391102.2024.2314270
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	https://doi.org/10.1002/slct.202202632

		Ahmad Bhat, Naheed Sidiq, Mohsin Ahmad Bhat				
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	http://dx.doi.org/10.1039/D3NJ04229D
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 Wajaht Amin Shah	Natural Product Research	2024	1478-6419	https://doi.org/10.1080/14786419.2023.2300394
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	https://doi.org/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	https://doi.org/10.1039/D3NJ05237K
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	https://doi.org/10.1002/jsde.12712
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 Banday	International Journal of Biological Macromolecules	2024	1879-0003	https://doi.org/10.1016/j.ijbiomac.2024.130318

164	Investigation of the structure and multi-stimuli-responsive behavior of ion-associated salt solvates of binary crystals	Asif A. Malik, Aijaz A. Dar	Journal of Molecular Structure	2024	0022-2860	https://doi.org/10.1016/j.molstruc.2024.138254
165	Engineering the solid-state luminescence of organic crystals and cocrystals	Aijaz A. Dar, Shaista H. Lone, Ishtiyah Ahmad, Aadil A. Ahangar, Arshid A. Ganie and Cherumannil Femina	Materials Advances	2024	2633-5409	https://doi.org/10.1039/D3MA00853C
166	The enhanced electrocatalytic performance of nanoscopic Cu ₆ Pd ₁₂ Fe ₁₂ heterometallic molecular box encaged cytochrome	S Nabi, FA Sofi, Q Jan, AY Bhat, PP Ingole, M Bayati, MA Bhat	Nanoscale	2024	411-426	https://doi.org/10.1039/D3NR03451H
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	https://doi.org/10.1039/D3CP04302A
168	SnS ₂ 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	https://doi.org/10.1039/D4NJ00231H
169	Smartphone-Assisted Contact Angle Measurements: A Simple Approach to Determine the Critical Micelle Concentration of Surfactants	Mudeha Shafat Khan, Adil Amin Wani, Qounsar Jan, Murtaza Manzoor Bhat,	Journal of Chemical Education	2024	1198–1203	https://doi.org/10.1021/acs.jchemed.3c00953
170	Chemical profile antituberculosis, DSC and molecular docking studies of Mentha longifolia essential oil	Naseer Ahmad Dar, Mahpara Qadir, Shahnawaz Ahmad Wani and Wajaht Amin Shah	Natural Product Research	2024	1478-6427	https://doi.org/10.1080/14786419.2024.2337114
171	Replacing Imidazole with Benz-Imidazole: A promising Approach to Enhance the Electrocatalytic Performance of Imidazolium based Surface Active Ionic Liquids for Greener Electrosynthesis	Nadia Hassan, Mohammad Yaseen Kuchey, Mohsin Ahmad Bhat	Chemical Communications	2024	1359-7345	https://doi.org/10.1039/D4CC02770A

172	Biphasic Synthesis of a Sulfur-Doped Reduced Graphene Oxide-Supported Co-Fe Prussian Blue Analogue: An Efficient and Durable Non-Noble Metal-Based Bifunctional Electrocatalyst for OER-ORR	Adil Amin Wani, Aamir Yaseen Bhat, Pravin P Ingole, Mohsin Ahmad Bhat	Energy & Fuels	2024	1520-5029	https://doi.org/10.1021/acs.energyfuels.4c02018
173	Multifunctional Chitosan-Polyoxometalate-Based Hydrogel Beads for UV Light Detection, Inkless Erasable Printing, Heterogenous Catalysis, and Antibacterial Applications	Arjumund Shaheen, Pawandeep Kour, Umar Nabi Tak, Hilal Ahmad Mir, Gousia Ahanger, Saima Sidiq, Aijaz Ahmad Dar	ACS Applied Engineering Materials	2024	2771-9545	https://doi.org/10.1021/acsaenm.4c00308
174	Pickering Emulsions of Zein Nanoparticles Co-stabilized by Tween 20: An Effective Strategy to Stabilize Citral in Low pH Environment	Pawandeep Kour, Arjumand Shaheen, Umar Nabi Tak, Adil Gani, Hina Kouser Qadri, Aijaz Ahmad Dar	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2024	1532-1173	https://doi.org/10.1016/j.colsurfa.2024.134876
175	Modulation of mechanical properties of low molecular weight supramolecular hydrogels of calcium cholate by drugs of varying hydrophobicity: Effect on drug release, antioxidant, and antibacterial properties	Saima Sidiq, Gousia Ahanger, Nighat Nazir, Mohammed Iqbal Zargar, Aijaz Ahmad Dar	Journal of Molecular Liquids	2024	1133-1186	https://doi.org/10.1016/j.molliq.2024.125341
176	Design and development of symmetric aromatic bischalcogenide-based photocatalysts for water treatment application: a concise study of diphenyl diselenide polypyrrole nanocatalysis,	Tabee Jan, Shabnam Raheem, Masood Ahmad Rizvi	Nanoscale Advances	2024	1278-1141	https://doi.org/10.1039/D4NA00329B
177	Modular access to sulfur substituted analogues of isocytosine via photoredox catalysis	Faheem Fayaz, Majid Ahmad Ganie, Sourav Kumar, Shabnam Raheem, Masood Ahmad Rizvi, Bhahwal Ali Shah	Chemical Communications	2024	1359-7345	https://doi.org/10.1039/D4CC02076F
178	Adsorptive avidity of Prussian blue polypyrrole nanocomposite for elimination of water contaminants: a case study of malachite green and isoniazid,	Tabee Jan, Shabnam Raheem, Aamir Hanif, Gauthier Rydzek, GM Peerzada, Katsuhiko Ariga, Jin Shang, Masood Ahmad Rizvi	Physical Chemistry Chemical Physics	2024	1177-1452	https://doi.org/10.1039/D4CP01053A

179	Naturbasierte bioinformatische Ansätze in der Arzneimittelforschung gegen vielversprechende molekulare Ziele – Carbonanhydrasen und Serin/Threonin-Kinasen zur Krebsbehandlung, Von der Natur inspirierte intelligente Datenverarbeitungstechniken in der Bioinforma	Mudasir Nabi Peerzada, Masood Ahmad Rizvi, KK Ajeeshkumar, Ankita Sahu, Saurabh Verma	Springer Nature Singapore	2024	1341-7861	https://doi.org/10.1007/9
180	Bioorganometallic chemistry: a new horizon on organometallic landscape.	Mudasir Ahmad Hafiz, Moniza Qayoom, Tabee Jan, Mohd Mustafa, Tabasum Maqbool, Masood Ahmad Rizvi	Recent Advances in Organometallic Chemistry.	2024	2416-0987	https://doi.org/10.1016/B978-0-323-90596-1.00015-8
181	Polymorphism Steered Thermochromism in a Sulfonamide	Asif A Malik, Zeinab M Saeed, Ishtiyaq Ahmad, Tamador Alkhidir, Praveen B Managutti, Sharmarke Mohamed, Aijaz A Dar	ACS Applied Optical Materials	2024	2771-9855	https://doi.org/10.1021/acsao.4c00260
182	Sulfonate–Pyridinium Ionic Cocrystal Solvates: Improved Material and Antimicrobial Properties	Ishtiyaq Ahmad, Asif A Malik, Shamim Ahmad, Aijaz A Dar	Crystal Growth & Design	2024	1528-7483	https://doi.org/10.1021/acs.cgd.4c00443
183	Pharmaceutical salts of azole anti-fungal drugs: physicochemical behaviour and activity studies	Hafsa Qadri, Asif A Malik, Aadil A Ahangar, Manzoor Ahmad Mir, Ajjiaz A Dar, Abdul Haseeb Shah	RSC Pharmaceutics	2024	1187-0932	https://doi.org/10.1039/D4PM00003J
184	Photoluminescent Organic Crystals and Co-crystals	Aijaz A Dar, Asif A Malik	Journal of Materials Chemistry C	2024	8421-0432	https://doi.org/10.1039/D4TC01453G
185	Stimuli-responsive fluorochromic organic salt	Anjum H Kohli, Asif A Malik, Arshid A Ganie, Aijaz A Dar	New Journal of Chemistry.	2024	7111-7124	https://doi.org/10.1039/D4NJ00929K

186	Synthesis, biological profile and computational insights of new derivatives of benzo [B][1, 4] diazepines as prospective anticancer agents for inhibiting the CDK-2 protein	Parvaiz A Dar, Basharat A Bhat, Mushtaq A Mir, Somdatta Y Chaudhari, Wajaht A Shah.	Journal of Biomolecular Structure and Dynamics	2024	1142-0213	https://doi.org/10.1080/07391102.2024.2314270
187	Phytochemical profile, cytotoxic assay, antibacterial activity and In-silico evaluation of essential oil extracted from <i>Nepeta nervosa</i> , blue moon catmint	Shariqah Hijazi, Irshad Ahmad Nawchoo, Shahid ud din Wani, Iqbal Zargar, Wajaht A Shah.	Analytical Chemistry Letters	2024	1764-7342	https://doi.org/10.1080/22297928.2023.2288032