Gurpreet Kaur

List of Publications by Year
in descending order

89 papers	1,796 citations	279798 23 h-index	345221 36 g-index
91 all docs	91 docs citations	91 times ranked	1807 citing authors

#	Article	IF	Citations
1	Novel synthesis of amorphous CP@HfO2 nanomaterials for high-performance electrochemical sensing of 2-naphthol. Journal of Nanostructure in Chemistry, 2023, 13, 423-438.	9.1	3
2	Performance Evaluation of Various Dispersion Compensation Modules. Wireless Personal Communications, 2022, 123, 2011-2025.	2.7	5
3	Comparative scrutinize of BSA and HEWL in the vicinity of metallo-catanionic aggregates derived from single chain metallosurfactant and anionic surfactant. Journal of Molecular Liquids, 2022, 345, 117818.	4.9	2
4	Spherical silver oxide nanoparticles for fabrication of electrochemical sensor for efficient 4-Nitrotoluene detection and assessment of their antimicrobial activity. Science of the Total Environment, 2022, 808, 152179.	8.0	16
5	Green-monodispersed Pd-nanoparticles for improved mitigation of pathogens and environmental pollutant. Materials Today Communications, 2022, 30, 103106.	1.9	6
6	Metallocatanionic vesicle-mediated enhanced singlet oxygen generation and photodynamic therapy of cancer cells. Journal of Materials Chemistry B, 2022, 10, 2160-2170.	5.8	4
7	Design and applications of metallo-vesicular structures using inorganic-organic hybrids. Advances in Colloid and Interface Science, 2022, 302, 102621.	14.7	2
8	Gemini Surfactant Mediated Catansomes for Enhanced Singlet Oxygen Generation of Rose Bengal and Their Phototoxicity against Cancer Cells. ACS Biomaterials Science and Engineering, 2022, 8, 1878-1891.	5.2	6
9	Evaluation of corrosion resistant, antimicrobial and cytocompatible behaviour of cobalt based metallosurfactants self-assembled monolayers on 316L stainless steel surface. Surface and Coatings Technology, 2022, 444, 128657.	4.8	9
10	Metallosurfactant based synthetic liposomes as a substitute for phospholipids to safely store curcumin. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112621.	5.0	1
11	A study of the spectral behaviour of Eosin dye in three states of metallosurfactants: Monomeric, micelles and metallosomes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125697.	4.7	5
12	Toxicity profiling of metallosurfactant based ruthenium and ruthenium oxide nanoparticles towards the eukaryotic model organism Saccharomyces cerevisiae. Chemosphere, 2021, 270, 128650.	8.2	6
13	Assessment of bio-corrosion inhibition ability of Hafnium based cationic metallosurfactant on iron surface. Corrosion Science, 2021, 179, 109101.	6.6	13
14	Evaluation of bio corrosion-resistant and antifouling properties of gold metallosurfactant monolayer on galvanised steel in simulated sea media inoculated with halophiles. Corrosion Science, 2021, 179, 109102.	6.6	14
15	Tuning the surface using palladium based metallosurfactant for hydrogen evolution reaction. Journal of Colloid and Interface Science, 2021, 582, 894-905.	9.4	9
16	Enhanced antimicrobial photodynamic activity of photosensitizer encapsulated copper based metallocatanionic vesicles against E.coli using visible light. Journal of Molecular Liquids, 2021, 324, 114688.	4.9	10
17	Synthesis of Î±â€Heterocycle Anchored Spirocyclic Azetidinâ€2â€ones in a Minute by pâ€TSA Catalyzed Cyclocondensation of Azetidinâ€2,3â€diones with Difunctionalized Substrates. ChemistrySelect, 2021, 6, 3932-3940.	1.5	8
18	Speech Recognition Using Enhanced Features with Deep Belief Network for Real Time Application. Wireless Personal Communications, 2021, 120, 3225.	2.7	0

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19	Cleaner way for overall water splitting reaction by using palladium and cobalt based nanocomposites prepared from mixed metallosurfactants. Applied Surface Science, 2021, 556, 149769.	6.1	4
20	Microwave-assisted assembly of Ag2O-ZnO composite nanocones for electrochemical detection of 4-Nitrophenol and assessment of their photocatalytic activity towards degradation of 4-Nitrophenol and Methylene blue dye. Journal of Hazardous Materials, 2021, 416, 125771.	12.4	87
21	Assessment of structural integrity of lysozyme in the presence of newly formed uni/multivesicular metallosomes. Journal of Molecular Liquids, 2021, 340, 116871.	4.9	2
22	Toxicity assessment of palladium oxide nanoparticles derived from metallosurfactants using multi assay techniques in Allium sativum. Colloids and Surfaces B: Biointerfaces, 2020, 187, 110752.	5.0	10
23	A study of synthesis, characterization and metalloplex formation ability of cetylpyridinium chloride based metallosomes. Journal of Molecular Liquids, 2020, 300, 112326.	4.9	12
24	Investigating affordable cobalt based metallosurfactant as an efficient electrocatalyst for hydrogen evolution reaction. Journal of Colloid and Interface Science, 2020, 562, 598-607.	9.4	23
25	Investigating the structural and conformational behavior of HEWL in the presence of iron metallosurfactant and sodium oleate metallo-catanionic aggregates. Journal of Molecular Liquids, 2020, 320, 114397.	4.9	3
26	A flower-like ZnOâ€“Ag₂O nanocomposite for label and mediator free direct sensing of dinitrotoluene. RSC Advances, 2020, 10, 27764-27774.	3.6	30
27	An investigation of morphological, microscopic dynamics, fluidity, and physicochemical variations in Cu-decorated metallosomes with cholesterol. Journal of Molecular Liquids, 2020, 318, 114034.	4.9	6
28	Optimization and utilization of single chain metallocatanionic vesicles for antibacterial photodynamic therapy (aPDT) againstE. coli. Journal of Materials Chemistry B, 2020, 8, 9304-9313.	5.8	14
29	Fluoresceinâ€“Metal Hybrid Surfactant Conjugates as a Smart Material for Antimicrobial Photodynamic Therapy against Staphylococcus aureus. ACS Applied Bio Materials, 2020, 3, 4674-4683.	4.6	18
30	High antimicrobial photodynamic activity of photosensitizer encapsulated dual-functional metallocatanionic vesicles against drug-resistant bacteria S. aureus. Biomaterials Science, 2020, 8, 2905-2920.	5.4	25
31	Efficient Photodynamic Therapy against Gram-Positive and Gram-Negative Bacteria Using Rose Bengal Encapsulated in Metallocatanionic Vesicles in the Presence of Visible Light. ACS Applied Bio Materials, 2020, 3, 8515-8524.	4.6	15
32	Metallovesicles as smart nanoreactors for green catalytic synthesis of benzimidazole derivatives in water. Journal of Materials Chemistry A, 2019, 7, 17306-17314.	10.3	47
33	Metallosurfactants derived Pd-NiO nanocomposite for remediation of nitrophenol in water. Journal of Molecular Liquids, 2019, 288, 111018.	4.9	15
34	Bactericidal effects of metallosurfactants based cobalt oxide/hydroxide nanoparticles against Staphylococcus aureus. Science of the Total Environment, 2019, 681, 350-364.	8.0	31
35	Cholesterol-induced physicochemical changes in dodecylamine-based metallosomes: drug entrapping ability and interactions with biological molecules. Journal of Materials Chemistry B, 2019, 7, 3679-3691.	5.8	17
36	Link Estimation of Different Indian Cities Under Fog Weather Conditions. Wireless Personal Communications, 2019, 105, 1215-1234.	2.7	12

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37	Synthesis, thermal and surface activity of cationic single chain metal hybrid surfactants and their interaction with microbes and proteins. Soft Matter, 2019, 15, 2348-2358.	2.7	19
38	Physicochemical stimuli as tuning parameters to modulate the structure and stability of nanostructured lipid carriers and release kinetics of encapsulated antileprosy drugs. Journal of Materials Chemistry B, 2019, 7, 6539-6555.	5.8	10
39	Effect of lipid chain length on nanostructured lipid carriers: Comprehensive structural evaluation by scattering techniques. Journal of Colloid and Interface Science, 2019, 534, 95-104.	9.4	13
40	Fabrication of iron oxide nanocolloids using metallosurfactant-based microemulsions: antioxidant activity, cellular, and genotoxicity toward Vitis vinifera. Journal of Biomolecular Structure and Dynamics, 2019, 37, 892-909.	3.5	13
41	Exploring drying pattern of a sessile droplet of genomic DNA in the presence of hematite nanoparticles. Scientific Reports, 2018, 8, 6352.	3.3	11
42	Metallosurfactant based Pdâ€“Ni alloy nanoparticles as a proficient catalyst in the Mizoroki Heck coupling reaction. Green Chemistry, 2018, 20, 1506-1514.	9.0	52
43	Investigating the structural integrity of Bovine serum albumin in presence of newly synthesized metallosurfactants. Colloids and Surfaces B: Biointerfaces, 2018, 164, 116-124.	5.0	22
44	Experimental validation of DNA interactions with nanoparticles derived from metal coupled amphiphiles. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3614-3622.	3.5	12
45	Chromium-based metallosurfactants: synthesis, physicochemical characterization and probing of their interactions with xanthene dyes. New Journal of Chemistry, 2018, 42, 1141-1150.	2.8	15
46	DNA interaction, anti-proliferative effect of copper oxide nanocolloids prepared from metallosurfactant based microemulsions acting as precursor, template and reducing agent. International Journal of Pharmaceutics, 2018, 535, 95-105.	5.2	17
47	Cationic double chained metallosurfactants: synthesis, aggregation, cytotoxicity, antimicrobial activity and their impact on the structure of bovine serum albumin. Soft Matter, 2018, 14, 5306-5318.	2.7	28
48	Structural and SAXS analysis of protein folding/unfolding with cationic single chain metallosurfactants. Journal of Molecular Liquids, 2018, 271, 157-165.	4.9	7
49	In vitro assessment of antimicrobial and genotoxic effect of metallosurfactant based nickel hydroxide nanoparticles against Escherichia coli and its genomic DNA. Colloids and Surfaces B: Biointerfaces, 2018, 170, 99-108.	5.0	17
50	A facile route for the synthesis of Co, Ni and Cu metallic nanoparticles with potential antimicrobial activity using novel metallosurfactants. Applied Surface Science, 2017, 404, 254-262.	6.1	37
51	Exploring interactions of copper hybrid surfactants with calf thymus-DNA. Journal of Molecular Liquids, 2017, 241, 715-721.	4.9	12
52	Fabrication of metalosomes (metal containing cationic liposomes) using single chain surfactants as a precursor via formation of inorganic organic hybrids. Physical Chemistry Chemical Physics, 2017, 19, 25764-25773.	2.8	15
53	Developments of Polysorbate (Tween) based microemulsions: Preclinical drug delivery, toxicity and antimicrobial applications. International Journal of Pharmaceutics, 2017, 529, 134-160.	5.2	141
54	Evaluation of bishexadecyltrimethyl ammonium palladium tetrachloride based dual functional colloidal carrier as an antimicrobial and anticancer agent. Dalton Transactions, 2016, 45, 6582-6591.	3.3	35

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55	Hybrid surfactants decorated with copper ions: aggregation behavior, antimicrobial activity and anti-proliferative effect. Physical Chemistry Chemical Physics, 2016, 18, 23961-23970.	2.8	32
56	Global reaction route mapping of water-catalysed gas phase oxidation of glyoxylic acid with hydroxyl radical. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	3
57	Transition metal based single chained surfactants: synthesis, aggregation behavior and enhanced photoluminescence properties of fluorescein. RSC Advances, 2016, 6, 108573-108582.	3.6	25
58	One-step synthesis of silver metallosurfactant as an efficient antibacterial and anticancer material. RSC Advances, 2016, 6, 57084-57097.	3.6	22
59	Revealing the potential of Didodecyldimethylammonium bromide as efficient scaffold for fabrication of nano liquid crystalline structures. Chemistry and Physics of Lipids, 2016, 196, 61-68.	3.2	11
60	Role of manganese-based surfactant towards solubilization and photophysical properties of fluorescein. RSC Advances, 2016, 6, 7066-7077.	3.6	18
61	Enhanced solubilization of curcumin in mixed surfactant vesicles. Food Chemistry, 2016, 199, 660-666.	8.2	45
62	(Cationic + nonionic) mixed surfactant aggregates for solubilisation of curcumin. Journal of Chemical Thermodynamics, 2016, 93, 115-122.	2.0	32
63	Coencapsulation of Hydrophobic and Hydrophilic Antituberculosis Drugs in Synergistic Brij 96 Microemulsions: A Biophysical Characterization. Journal of Pharmaceutical Sciences, 2015, 104, 2203-2212.	3.3	26
64	Water-catalysis in the gas phase reaction of dithioformic acid with hydroxyl radical: global reaction route mapping of oxidative pathways for hydrogen abstraction. RSC Advances, 2015, 5, 50989-50998.	3.6	6
65	Multifaceted Approach for the Fabrication of Metallomicelles and Metallic Nanoparticles Using Solvophobic Bisdodecylaminepalladium (II) Chloride as Precursor. Inorganic Chemistry, 2015, 54, 9002-9012.	4.0	40
66	Exploring the mechanism of isomerisation and water-migration in the water-complexes of amino-acid <scp>l</scp>-proline: electrostatic potential and vibrational analysis. RSC Advances, 2015, 5, 82587-82604.	3.6	7
67	Investigating Mixed Micellar System of Dodecylammonium Acetate for Solubilisation of Curcumin. Science of Advanced Materials, 2015, 7, 1546-1555.	0.7	1
68	Probing Location of Anti-TB Drugs Loaded in Brij 96 Microemulsions Using Thermoanalytical and Photophysical Approach. Journal of Pharmaceutical Sciences, 2014, 103, 937-944.	3.3	17
69	Nuclease activity and anti-proliferative effect on human cancerous cells of a newly synthesized and characterized mononuclear copper(<scp>ii</scp>) complex [Cu^{II}(L)(fu)₂] [L = 2-(2-pyridyl)benzimidazole, fu = furoate]. RSC Advances, 2014, 4, 61337-61342.	3.6	32
70	The mechanism of tautomerisation and geometric isomerisation in thioformic acid and its water complexes: exploring chemical pathways for water migration. Physical Chemistry Chemical Physics, 2014, 16, 24401-24416.	2.8	14
71	Aggregation behavior of Dioctadecyldimethylammonium chloride in mixed cationic surfactant system. Journal of Molecular Liquids, 2014, 198, 37-43.	4.9	5
72	On the mechanism of intramolecular nitrogen-atom hopping in the carbon chain of C₆N radical: A Plausible 3câˆ’4e crossover Ï€Ì, Long-Bond. Journal of Computational Chemistry, 2014, 35, 1568-1576.	3.3	17

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73	Exploring Water Catalysis in the Reaction of Thioformic Acid with Hydroxyl Radical: A Global Reaction Route Mapping Perspective. Journal of Physical Chemistry A, 2014, 118, 4019-4029.	2.5	19
74	Solubilization efficiency of mixed cationic aggregates towards aromatic compounds. Fluid Phase Equilibria, 2014, 375, 340-346.	2.5	1
75	Assessment of Brij 96 Embedded Microemulsions as Carrier for Anti-Tuberculosis Drug Rifampicin. Materials Focus, 2014, 3, 18-22.	0.4	1
76	Synthesis, Characterization and Aggregation Behavior of a Novel Water Soluble Hafnium Metallosurfactant. Science of Advanced Materials, 2014, 6, 1011-1018.	0.7	1
77	Studies on thermogravimetric analysis and solvophobic interactions of micellization of Pd (II) complex in non aqueous solvents. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 25-34.	4.7	19
78	Global reaction route mapping of isomerization pathways of exotic C6H molecular species. Journal of Chemical Physics, 2013, 139, 224311.	3.0	18
79	Probing the Microstructure of Nonionic Microemulsions with Ethyl Oleate by Viscosity, ROESY, DLS, SANS, and Cyclic Voltammetry. Langmuir, 2012, 28, 10640-10652.	3.5	56
80	Fabrication of plant protein microspheres for encapsulation, stabilization and in vitro release of multiple anti-tuberculosis drugs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 375, 219-230.	4.7	24
81	Quantitative investigation, stability and in vitro release studies of anti-TB drugs in Triton niosomes. Colloids and Surfaces B: Biointerfaces, 2011, 87, 173-179.	5.0	67
82	Location of anti-TB drugs and microstructural changes in organized surfactant media using optical properties. Journal of Colloid and Interface Science, 2011, 356, 589-597.	9.4	7
83	Microemulsions as Carriers for Therapeutic Molecules. Recent Patents on Drug Delivery and Formulation, 2010, 4, 35-48.	2.1	7
84	Tween-Embedded Microemulsionsâ€"Physicochemical and Spectroscopic Analysis for Antitubercular Drugs. AAPS PharmSciTech, 2010, 11, 143-153.	3.3	49
85	Entrapment of multiple antiâ€Tb drugs in microemulsion system: Quantitative analysis, stability, and in vitro release studies. Journal of Pharmaceutical Sciences, 2010, 99, 1896-1911.	3.3	13
86	Solubilization, microstructure, and thermodynamics of fully dilutable U-type Brij microemulsion. Journal of Colloid and Interface Science, 2009, 338, 542-549.	9.4	50
87	Incorporation of Antitubercular Drug Isoniazid in Pharmaceutically Accepted Microemulsion: Effect on Microstructure and Physical Parameters. Pharmaceutical Research, 2008, 25, 227-236.	3.5	49
88	Analysis of Tween based microemulsion in the presence of TB drug rifampicin. Colloids and Surfaces B: Biointerfaces, 2007, 60, 95-104.	5.0	81
89	Synthesis of Monocyclic Î²â€Lactams via Cyclodehydration of Î²â€Amino Acids Using POCl3. Synthetic Communications, 2004, 34, 1855-1862.	2.1	13