

# Gurpreet Kaur

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6695182/publications.pdf>

Version: 2024-02-01

89  
papers

1,796  
citations

279701

23  
h-index

345118

36  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1807  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel synthesis of amorphous CP@HfO <sub>2</sub> nanomaterials for high-performance electrochemical sensing of 2-naphthol. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 423-438.	5.3	3
2	Performance Evaluation of Various Dispersion Compensation Modules. <i>Wireless Personal Communications</i> , 2022, 123, 2011-2025.	1.8	5
3	Comparative scrutinize of BSA and HEWL in the vicinity of metallo-catanionic aggregates derived from single chain metallosurfactant and anionic surfactant. <i>Journal of Molecular Liquids</i> , 2022, 345, 117818.	2.3	2
4	Spherical silver oxide nanoparticles for fabrication of electrochemical sensor for efficient 4-Nitrotoluene detection and assessment of their antimicrobial activity. <i>Science of the Total Environment</i> , 2022, 808, 152179.	3.9	16
5	Green-monodispersed Pd-nanoparticles for improved mitigation of pathogens and environmental pollutant. <i>Materials Today Communications</i> , 2022, 30, 103106.	0.9	6
6	Metallocatanionic vesicle-mediated enhanced singlet oxygen generation and photodynamic therapy of cancer cells. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2160-2170.	2.9	4
7	Design and applications of metallo-vesicular structures using inorganic-organic hybrids. <i>Advances in Colloid and Interface Science</i> , 2022, 302, 102621.	7.0	2
8	Gemini Surfactant Mediated Catansomes for Enhanced Singlet Oxygen Generation of Rose Bengal and Their Phototoxicity against Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1878-1891.	2.6	6
9	Evaluation of corrosion resistant, antimicrobial and cytocompatible behaviour of cobalt based metallosurfactants self-assembled monolayers on 316L stainless steel surface. <i>Surface and Coatings Technology</i> , 2022, 444, 128657.	2.2	9
10	Metallosurfactant based synthetic liposomes as a substitute for phospholipids to safely store curcumin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112621.	2.5	1
11	A study of the spectral behaviour of Eosin dye in three states of metallosurfactants: Monomeric, micelles and metallosomes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125697.	2.3	5
12	Toxicity profiling of metallosurfactant based ruthenium and ruthenium oxide nanoparticles towards the eukaryotic model organism <i>Saccharomyces cerevisiae</i> . <i>Chemosphere</i> , 2021, 270, 128650.	4.2	6
13	Assessment of bio-corrosion inhibition ability of Hafnium based cationic metallosurfactant on iron surface. <i>Corrosion Science</i> , 2021, 179, 109101.	3.0	13
14	Evaluation of bio corrosion-resistant and antifouling properties of gold metallosurfactant monolayer on galvanised steel in simulated sea media inoculated with halophiles. <i>Corrosion Science</i> , 2021, 179, 109102.	3.0	14
15	Tuning the surface using palladium based metallosurfactant for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 894-905.	5.0	9
16	Enhanced antimicrobial photodynamic activity of photosensitizer encapsulated copper based metallocatanionic vesicles against <i>E.coli</i> using visible light. <i>Journal of Molecular Liquids</i> , 2021, 324, 114688.	2.3	10
17	Synthesis of Heterocycle Anchored Spirocyclic Azetidinones in a Minute by TFA Catalyzed Cyclocondensation of Azetidinones with Difunctionalized Substrates. <i>ChemistrySelect</i> , 2021, 6, 3932-3940.	0.7	8
18	Speech Recognition Using Enhanced Features with Deep Belief Network for Real Time Application. <i>Wireless Personal Communications</i> , 2021, 120, 3225.	1.8	0

#	ARTICLE	IF	CITATIONS
19	Cleaner way for overall water splitting reaction by using palladium and cobalt based nanocomposites prepared from mixed metallosurfactants. <i>Applied Surface Science</i> , 2021, 556, 149769.	3.1	4
20	Microwave-assisted assembly of Ag <sub>2</sub> O-ZnO composite nanocones for electrochemical detection of 4-Nitrophenol and assessment of their photocatalytic activity towards degradation of 4-Nitrophenol and Methylene blue dye. <i>Journal of Hazardous Materials</i> , 2021, 416, 125771.	6.5	87
21	Assessment of structural integrity of lysozyme in the presence of newly formed uni/multivesicular metallosomes. <i>Journal of Molecular Liquids</i> , 2021, 340, 116871.	2.3	2
22	Toxicity assessment of palladium oxide nanoparticles derived from metallosurfactants using multi assay techniques in <i>Allium sativum</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 187, 110752.	2.5	10
23	A study of synthesis, characterization and metalloplex formation ability of cetylpyridinium chloride based metallosomes. <i>Journal of Molecular Liquids</i> , 2020, 300, 112326.	2.3	12
24	Investigating affordable cobalt based metallosurfactant as an efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 598-607.	5.0	23
25	Investigating the structural and conformational behavior of HEWL in the presence of iron metallosurfactant and sodium oleate metallo-catanionic aggregates. <i>Journal of Molecular Liquids</i> , 2020, 320, 114397.	2.3	3
26	A flower-like ZnO@Ag <sub>2</sub> O nanocomposite for label and mediator free direct sensing of dinitrotoluene. <i>RSC Advances</i> , 2020, 10, 27764-27774.	1.7	30
27	An investigation of morphological, microscopic dynamics, fluidity, and physicochemical variations in Cu-decorated metallosomes with cholesterol. <i>Journal of Molecular Liquids</i> , 2020, 318, 114034.	2.3	6
28	Optimization and utilization of single chain metallocatanionic vesicles for antibacterial photodynamic therapy (aPDT) against <i>E. coli</i> . <i>Journal of Materials Chemistry B</i> , 2020, 8, 9304-9313.	2.9	14
29	Fluorescein@Metal Hybrid Surfactant Conjugates as a Smart Material for Antimicrobial Photodynamic Therapy against <i>Staphylococcus aureus</i> . <i>ACS Applied Bio Materials</i> , 2020, 3, 4674-4683.	2.3	18
30	High antimicrobial photodynamic activity of photosensitizer encapsulated dual-functional metallocatanionic vesicles against drug-resistant bacteria <i>S. aureus</i> . <i>Biomaterials Science</i> , 2020, 8, 2905-2920.	2.6	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. <i>ACS Applied Bio Materials</i> , 2020, 3, 8515-8524.	2.3	15
32	Metallovesicles as smart nanoreactors for green catalytic synthesis of benzimidazole derivatives in water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17306-17314.	5.2	47
33	Metallosurfactants derived Pd-NiO nanocomposite for remediation of nitrophenol in water. <i>Journal of Molecular Liquids</i> , 2019, 288, 111018.	2.3	15
34	Bactericidal effects of metallosurfactants based cobalt oxide/hydroxide nanoparticles against <i>Staphylococcus aureus</i> . <i>Science of the Total Environment</i> , 2019, 681, 350-364.	3.9	31
35	Cholesterol-induced physicochemical changes in dodecylamine-based metallosomes: drug entrapping ability and interactions with biological molecules. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3679-3691.	2.9	17
36	Link Estimation of Different Indian Cities Under Fog Weather Conditions. <i>Wireless Personal Communications</i> , 2019, 105, 1215-1234.	1.8	12

#	ARTICLE	IF	CITATIONS
37	Synthesis, thermal and surface activity of cationic single chain metal hybrid surfactants and their interaction with microbes and proteins. <i>Soft Matter</i> , 2019, 15, 2348-2358.	1.2	19
38	Physicochemical stimuli as tuning parameters to modulate the structure and stability of nanostructured lipid carriers and release kinetics of encapsulated antileprosy drugs. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6539-6555.	2.9	10
39	Effect of lipid chain length on nanostructured lipid carriers: Comprehensive structural evaluation by scattering techniques. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 95-104.	5.0	13
40	Fabrication of iron oxide nanocolloids using metallosurfactant-based microemulsions: antioxidant activity, cellular, and genotoxicity toward <i>Vitis vinifera</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 892-909.	2.0	13
41	Exploring drying pattern of a sessile droplet of genomic DNA in the presence of hematite nanoparticles. <i>Scientific Reports</i> , 2018, 8, 6352.	1.6	11
42	Metallosurfactant based Pd-Ni alloy nanoparticles as a proficient catalyst in the Mizoroki Heck coupling reaction. <i>Green Chemistry</i> , 2018, 20, 1506-1514.	4.6	52
43	Investigating the structural integrity of Bovine serum albumin in presence of newly synthesized metallosurfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 116-124.	2.5	22
44	Experimental validation of DNA interactions with nanoparticles derived from metal coupled amphiphiles. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3614-3622.	2.0	12
45	Chromium-based metallosurfactants: synthesis, physicochemical characterization and probing of their interactions with xanthene dyes. <i>New Journal of Chemistry</i> , 2018, 42, 1141-1150.	1.4	15
46	DNA interaction, anti-proliferative effect of copper oxide nanocolloids prepared from metallosurfactant based microemulsions acting as precursor, template and reducing agent. <i>International Journal of Pharmaceutics</i> , 2018, 535, 95-105.	2.6	17
47	Cationic double chained metallosurfactants: synthesis, aggregation, cytotoxicity, antimicrobial activity and their impact on the structure of bovine serum albumin. <i>Soft Matter</i> , 2018, 14, 5306-5318.	1.2	28
48	Structural and SAXS analysis of protein folding/unfolding with cationic single chain metallosurfactants. <i>Journal of Molecular Liquids</i> , 2018, 271, 157-165.	2.3	7
49	In vitro assessment of antimicrobial and genotoxic effect of metallosurfactant based nickel hydroxide nanoparticles against <i>Escherichia coli</i> and its genomic DNA. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 99-108.	2.5	17
50	A facile route for the synthesis of Co, Ni and Cu metallic nanoparticles with potential antimicrobial activity using novel metallosurfactants. <i>Applied Surface Science</i> , 2017, 404, 254-262.	3.1	37
51	Exploring interactions of copper hybrid surfactants with calf thymus-DNA. <i>Journal of Molecular Liquids</i> , 2017, 241, 715-721.	2.3	12
52	Fabrication of metalosomes (metal containing cationic liposomes) using single chain surfactants as a precursor via formation of inorganic organic hybrids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25764-25773.	1.3	15
53	Developments of Polysorbate (Tween) based microemulsions: Preclinical drug delivery, toxicity and antimicrobial applications. <i>International Journal of Pharmaceutics</i> , 2017, 529, 134-160.	2.6	141
54	Evaluation of bis-hexadecyltrimethyl ammonium palladium tetrachloride based dual functional colloidal carrier as an antimicrobial and anticancer agent. <i>Dalton Transactions</i> , 2016, 45, 6582-6591.	1.6	35

#	ARTICLE	IF	CITATIONS
55	Hybrid surfactants decorated with copper ions: aggregation behavior, antimicrobial activity and anti-proliferative effect. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23961-23970.	1.3	32
56	Global reaction route mapping of water-catalysed gas phase oxidation of glyoxylic acid with hydroxyl radical. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	3
57	Transition metal based single chained surfactants: synthesis, aggregation behavior and enhanced photoluminescence properties of fluorescein. <i>RSC Advances</i> , 2016, 6, 108573-108582.	1.7	25
58	One-step synthesis of silver metallosurfactant as an efficient antibacterial and anticancer material. <i>RSC Advances</i> , 2016, 6, 57084-57097.	1.7	22
59	Revealing the potential of Didodecyltrimethylammonium bromide as efficient scaffold for fabrication of nano liquid crystalline structures. <i>Chemistry and Physics of Lipids</i> , 2016, 196, 61-68.	1.5	11
60	Role of manganese-based surfactant towards solubilization and photophysical properties of fluorescein. <i>RSC Advances</i> , 2016, 6, 7066-7077.	1.7	18
61	Enhanced solubilization of curcumin in mixed surfactant vesicles. <i>Food Chemistry</i> , 2016, 199, 660-666.	4.2	45
62	(Cationic + nonionic) mixed surfactant aggregates for solubilisation of curcumin. <i>Journal of Chemical Thermodynamics</i> , 2016, 93, 115-122.	1.0	32
63	Coencapsulation of Hydrophobic and Hydrophilic Antituberculosis Drugs in Synergistic Brij 96 Microemulsions: A Biophysical Characterization. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2203-2212.	1.6	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. <i>RSC Advances</i> , 2015, 5, 50989-50998.	1.7	6
65	Multifaceted Approach for the Fabrication of Metallomicelles and Metallic Nanoparticles Using Solvophobic Bis(dodecylamine)palladium (II) Chloride as Precursor. <i>Inorganic Chemistry</i> , 2015, 54, 9002-9012.	1.9	40
66	Exploring the mechanism of isomerisation and water-migration in the water-complexes of amino-acid $\alpha$ -proline: electrostatic potential and vibrational analysis. <i>RSC Advances</i> , 2015, 5, 82587-82604.	1.7	7
67	Investigating Mixed Micellar System of Dodecylammonium Acetate for Solubilisation of Curcumin. <i>Science of Advanced Materials</i> , 2015, 7, 1546-1555.	0.1	1
68	Probing Location of Anti-TB Drugs Loaded in Brij 96 Microemulsions Using Thermoanalytical and Photophysical Approach. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 937-944.	1.6	17
69	Nuclease activity and anti-proliferative effect on human cancerous cells of a newly synthesized and characterized mononuclear copper(II) complex $[Cu^{II}(L)(fu)_2]$ [L = 2-(2-pyridyl)benzimidazole, fu = furoate]. <i>RSC Advances</i> , 2014, 4, 61337-61342.	1.7	32
70	The mechanism of tautomerisation and geometric isomerisation in thioformic acid and its water complexes: exploring chemical pathways for water migration. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24401-24416.	1.3	14
71	Aggregation behavior of Dioctadecyldimethylammonium chloride in mixed cationic surfactant system. <i>Journal of Molecular Liquids</i> , 2014, 198, 37-43.	2.3	5
72	On the mechanism of intramolecular nitrogen-atom hopping in the carbon chain of $C_6N$ radical: A Plausible $3\sigma \rightarrow 4e$ crossover $\dot{I}$ , Long-Bond. <i>Journal of Computational Chemistry</i> , 2014, 35, 1568-1576.	1.5	17

#	ARTICLE	IF	CITATIONS
73	Exploring Water Catalysis in the Reaction of Thioformic Acid with Hydroxyl Radical: A Global Reaction Route Mapping Perspective. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4019-4029.	1.1	19
74	Solubilization efficiency of mixed cationic aggregates towards aromatic compounds. <i>Fluid Phase Equilibria</i> , 2014, 375, 340-346.	1.4	1
75	Assessment of Brij 96 Embedded Microemulsions as Carrier for Anti-Tuberculosis Drug Rifampicin. <i>Materials Focus</i> , 2014, 3, 18-22.	0.4	1
76	Synthesis, Characterization and Aggregation Behavior of a Novel Water Soluble Hafnium Metallosurfactant. <i>Science of Advanced Materials</i> , 2014, 6, 1011-1018.	0.1	1
77	Studies on thermogravimetric analysis and solvophobic interactions of micellization of Pd (II) complex in non aqueous solvents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 434, 25-34.	2.3	19
78	Global reaction route mapping of isomerization pathways of exotic C6H molecular species. <i>Journal of Chemical Physics</i> , 2013, 139, 224311.	1.2	18
79	Probing the Microstructure of Nonionic Microemulsions with Ethyl Oleate by Viscosity, ROESY, DLS, SANS, and Cyclic Voltammetry. <i>Langmuir</i> , 2012, 28, 10640-10652.	1.6	56
80	Fabrication of plant protein microspheres for encapsulation, stabilization and in vitro release of multiple anti-tuberculosis drugs. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 375, 219-230.	2.3	24
81	Quantitative investigation, stability and in vitro release studies of anti-TB drugs in Triton niosomes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 173-179.	2.5	67
82	Location of anti-TB drugs and microstructural changes in organized surfactant media using optical properties. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 589-597.	5.0	7
83	Microemulsions as Carriers for Therapeutic Molecules. <i>Recent Patents on Drug Delivery and Formulation</i> , 2010, 4, 35-48.	2.1	7
84	Tween-Embedded Microemulsions—Physicochemical and Spectroscopic Analysis for Antitubercular Drugs. <i>AAPS PharmSciTech</i> , 2010, 11, 143-153.	1.5	49
85	Entrapment of multiple anti-Tb drugs in microemulsion system: Quantitative analysis, stability, and in vitro release studies. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1896-1911.	1.6	13
86	Solubilization, microstructure, and thermodynamics of fully dilutable U-type Brij microemulsion. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 542-549.	5.0	50
87	Incorporation of Antitubercular Drug Isoniazid in Pharmaceutically Accepted Microemulsion: Effect on Microstructure and Physical Parameters. <i>Pharmaceutical Research</i> , 2008, 25, 227-236.	1.7	49
88	Analysis of Tween based microemulsion in the presence of TB drug rifampicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 60, 95-104.	2.5	81
89	Synthesis of Monocyclic $\beta$ -Lactams via Cyclodehydration of $\alpha$ -Amino Acids Using POCl <sub>3</sub> . <i>Synthetic Communications</i> , 2004, 34, 1855-1862.	1.1	13