Surinder Mehta

List of Publications by Year
in descending order

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310 papers	10,211 citations	25034 57 h-index	60623 81 g-index
322 all docs	322 docs citations	322 times ranked	12092 citing authors

#	Article	IF	Citations
1	Role of nanomaterials as adsorbents in heavy metal ion removal from waste water: A review. Journal of Water Process Engineering, 2020, 33, 101038.	5.6	310
2	Highly effective Fe-doped TiO 2 nanoparticles photocatalysts for visible-light driven photocatalytic degradation of toxic organic compounds. Journal of Colloid and Interface Science, 2015, 450, 213-223.	9.4	248
3	Synthesis and capping of water-dispersed gold nanoparticles by an amino acid: Bioconjugation and binding studies. Journal of Colloid and Interface Science, 2008, 323, 247-254.	9.4	223
4	Effect of temperature on critical micelle concentration and thermodynamic behavior of dodecyldimethylethylammonium bromide and dodecyltrimethylammonium chloride in aqueous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 255, 153-157.	4.7	185
5	Selenium nanomaterials: An overview of recent developments in synthesis, properties and potential applications. Progress in Materials Science, 2016, 83, 270-329.	32.8	169
6	Î±-Bi2O3 nanorods: An efficient sunlight active photocatalyst for degradation of Rhodamine B and 2,4,6-trichlorophenol. Ceramics International, 2015, 41, 3355-3364.	4.8	149
7	Bi 2 O 3 /TiO 2 heterostructures: Synthesis, characterization and their application in solar light mediated photocatalyzed degradation of an antibiotic, ofloxacin. Chemical Engineering Journal, 2016, 290, 45-52.	12.7	144
8	Developments of Polysorbate (Tween) based microemulsions: Preclinical drug delivery, toxicity and antimicrobial applications. International Journal of Pharmaceutics, 2017, 529, 134-160.	5.2	141
9	Comparative study of catalytic activity of ZrO2 nanoparticles for sonocatalytic and photocatalytic degradation of cationic and anionic dyes. Chemical Engineering Journal, 2015, 280, 475-485.	12.7	134
10	Photocatalytic degradation of Eriochrome Black T dye using well-crystalline anatase TiO2 nanoparticles. Journal of Alloys and Compounds, 2013, 581, 392-397.	5.5	123
11	Removal of Water Contaminants by Iron Oxide Nanomaterials. Journal of Nanoscience and Nanotechnology, 2014, 14, 627-643.	0.9	108
12	The visible light-driven photocatalytic degradation of Alizarin red S using Bi-doped TiO₂ nanoparticles. New Journal of Chemistry, 2014, 38, 3127-3136.	2.8	107
13	Chitosan-Graphene Oxide Hydrogels with Embedded Magnetic Iron Oxide Nanoparticles for Dye Removal. ACS Applied Nano Materials, 2019, 2, 7379-7392.	5.0	103
14	Evolution of ZnS Nanoparticles via Facile CTAB Aqueous Micellar Solution Route: A Study on Controlling Parameters. Nanoscale Research Letters, 2009, 4, 17-28.	5.7	100
15	Nevirapine loaded Poloxamer 407/Pluronic P123 mixed micelles: Optimization of formulation and in vitro evaluation. Colloids and Surfaces B: Biointerfaces, 2015, 129, 100-106.	5.0	100
16	Well-crystalline porous ZnOâ€“SnO2 nanosheets: An effective visible-light driven photocatalyst and highly sensitive smart sensor material. Talanta, 2015, 131, 490-498.	5.5	100
17	Green Nanotechnology-Driven Drug Delivery Assemblies. ACS Omega, 2019, 4, 8804-8815.	3.5	94
18	Photocatalytic degradation of Alizarin Red S using simply synthesized ZnO nanoparticles. Materials Letters, 2013, 106, 385-389.	2.6	93

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19	Photocatalytic degradation of the antibiotic levofloxacin using highly crystalline TiO₂ nanoparticles. New Journal of Chemistry, 2014, 38, 3220-3226.	2.8	93
20	Tungsten oxide (WO3) nanoparticles as scaffold for the fabrication of hydrazine chemical sensor. Sensors and Actuators B: Chemical, 2014, 196, 231-237.	7.8	92
21	Synthesis of CeO2â€“ZnO nanoellipsoids as potential scaffold for the efficient detection of 4-nitrophenol. Sensors and Actuators B: Chemical, 2014, 202, 1044-1050.	7.8	92
22	Time dependence of nucleation and growth of silver nanoparticles generated by sugar reduction in micellar media. Journal of Colloid and Interface Science, 2010, 343, 447-453.	9.4	90
23	Conductometric and spectroscopic studies of sodium dodecyl sulfate in aqueous media in the presence of organic chalcogen. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 304, 88-95.	4.7	89
24	ZnO doped SnO2 nanoparticles heterojunction photo-catalyst for environmental remediation. Journal of Alloys and Compounds, 2015, 653, 327-333.	5.5	89
25	Visible-light driven photocatalytic degradation of brilliant green dye based on cobalt tungstate (CoWO 4) nanoparticles. Materials Chemistry and Physics, 2018, 211, 335-342.	4.0	88
26	Fabrication of novel carbon quantum dots modified bismuth oxide (Î±-Bi2O3/C-dots): Material properties and catalytic applications. Journal of Colloid and Interface Science, 2019, 533, 227-237.	9.4	88
27	Ultrasound processed nanoemulsion: A comparative approach between resveratrol and resveratrol cyclodextrin inclusion complex to study its binding interactions, antioxidant activity and UV light stability. Ultrasonics Sonochemistry, 2017, 37, 478-489.	8.2	87
28	Solar light driven photocatalytic degradation of levofloxacin using TiO₂/carbon-dot nanocomposites. New Journal of Chemistry, 2018, 42, 7445-7456.	2.8	87
29	CeO2ZnO hexagonal nanodisks: Efficient material for the degradation of direct blue 15 dye and its simulated dye bath effluent under solar light. Journal of Alloys and Compounds, 2015, 620, 67-73.	5.5	84
30	TiO2 quantum dots for the photocatalytic degradation of indigo carmine dye. Journal of Alloys and Compounds, 2015, 650, 193-198.	5.5	83
31	Reduced graphene oxide-CdS heterostructure: An efficient fluorescent probe for the sensing of Ag(I) and sunset yellow and a visible-light responsive photocatalyst for the degradation of levofloxacin drug in aqueous phase. Applied Catalysis B: Environmental, 2019, 245, 143-158.	20.2	83
32	N doped ZnO/C-dots nanoflowers as visible light driven photocatalyst for the degradation of malachite green dye in aqueous phase. Journal of Alloys and Compounds, 2017, 699, 323-333.	5.5	82
33	Analysis of Tween based microemulsion in the presence of TB drug rifampicin. Colloids and Surfaces B: Biointerfaces, 2007, 60, 95-104.	5.0	81
34	Efficient photocatalytic degradation of brilliant green using Sr-doped TiO2 nanoparticles. Ceramics International, 2015, 41, 3533-3540.	4.8	81
35	Anti-Alzheimer's potential of berberine using surface decorated multi-walled carbon nanotubes: A preclinical evidence. International Journal of Pharmaceutics, 2017, 530, 263-278.	5.2	81
36	Ultra fast and effective treatment of dyes from water with the synergistic effect of Ni doped ZnO nanoparticles and ultrasonication. Ultrasonics Sonochemistry, 2015, 22, 317-325.	8.2	80

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37	Effect of Cationic Surfactant Head Groups on Synthesis, Growth and Agglomeration Behavior of ZnS Nanoparticles. Nanoscale Research Letters, 2009, 4, 1197-1208.	5.7	79
38	Nitrogen doped graphene quantum dots: Efficient fluorescent chemosensor for the selective and sensitive detection of 2,4,6-trinitrophenol. Sensors and Actuators B: Chemical, 2017, 245, 938-945.	7.8	79
39	Formulation of Tyloxapol niosomes for encapsulation, stabilization and dissolution of anti-tubercular drugs. Colloids and Surfaces B: Biointerfaces, 2013, 101, 434-441.	5.0	78
40	Photoluminescent C-dots: An overview on the recent development in the synthesis, physiochemical properties and potential applications. Journal of Alloys and Compounds, 2018, 748, 818-853.	5.5	77
41	Bi2WO6/C-Dots/TiO2: A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium. Nanomaterials, 2020, 10, 910.	4.1	75
42	Rapid Solar-Light Driven Superior Photocatalytic Degradation of Methylene Blue Using MoS2-ZnO Heterostructure Nanorods Photocatalyst. Materials, 2018, 11, 2254.	2.9	74
43	Growth, stability, optical and photoluminescent properties of aqueous colloidal ZnS nanoparticles in relation to surfactant molecular structure. Journal of Colloid and Interface Science, 2011, 360, 497-507.	9.4	73
44	Nanosensors for food quality and safety assessment. Environmental Chemistry Letters, 2017, 15, 165-177.	16.2	73
45	Synthesis of Highly Stable, Waterâ€Dispersible Copper Nanoparticles as Catalysts for Nitrobenzene Reduction. Chemistry - an Asian Journal, 2014, 9, 189-198.	3.3	72
46	Enhanced visible light driven photocatalytic application of Ag 2 O decorated ZnO nanorods heterostructures. Separation and Purification Technology, 2017, 183, 341-349.	7.9	72
47	Zeta potential based colorimetric immunoassay for the direct detection of diabetic marker HbA1c using gold nanoprobes. Chemical Communications, 2010, 46, 5755.	4.1	70
48	Colorimetric chemosensor based on coumarin skeleton for selective naked eye detection of cobalt (II) ion in near aqueous medium. Sensors and Actuators B: Chemical, 2019, 280, 219-226.	7.8	69
49	Micellar behavior of dodecyldimethylethyl ammonium bromide and dodecyltrimethylammonium chloride in aqueous media in the presence of diclofenac sodium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 278, 17-25.	4.7	68
50	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
51	Self aggregating metal surfactant complexes: Precursors for nanostructures. Coordination Chemistry Reviews, 2014, 262, 37-54.	18.8	67
52	Surface Functionalized Selenium Nanoparticles for Biomedical Applications. Journal of Biomedical Nanotechnology, 2014, 10, 3004-3042.	1.1	65
53	A fluorescent probe based on nitrogen doped graphene quantum dots for turn off sensing of explosive and detrimental water pollutant, TNP in aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 180, 37-43.	3.9	63
54	Ultra-high sensitive hydrazine chemical sensor based on low-temperature grown ZnO nanoparticles. Electrochimica Acta, 2012, 69, 128-133.	5.2	62

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55	Selenium Nanomaterials: Applications in Electronics, Catalysis and Sensors. Journal of Nanoscience and Nanotechnology, 2014, 14, 1658-1674.	0.9	62
56	Recyclable CuS quantum dots as heterogeneous catalyst for Biginelli reaction under solvent free conditions. Chemical Engineering Journal, 2014, 243, 217-224.	12.7	61
57	Potential prospects for carbon dots as a fluorescence sensing probe for metal ions. RSC Advances, 2016, 6, 90526-90536.	3.6	60
58	Visible light driven photocatalytic degradation of fluoroquinolone levofloxacin drug using Ag₂O/TiO₂ quantum dots: a mechanistic study and degradation pathway. New Journal of Chemistry, 2017, 41, 12079-12090.	2.8	60
59	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
60	Amine-functionalized titanium metal-organic framework (NH2-MIL-125(Ti)): A novel fluorescent sensor for the highly selective sensing of copper ions. Materials Chemistry and Physics, 2020, 254, 123539.	4.0	56
61	Highly sensitive hydrazine chemical sensor based on mono-dispersed rapidly synthesized PEG-coated ZnS nanoparticles. Talanta, 2011, 85, 2411-2416.	5.5	53
62	Luminescent ZnO quantum dots as an efficient sensor for free chlorine detection in water. Analyst, The, 2016, 141, 2487-2492.	3.5	52
63	Solubilization, microstructure, and thermodynamics of fully dilutable U-type Brij microemulsion. Journal of Colloid and Interface Science, 2009, 338, 542-549.	9.4	50
64	Nucleation and growth of surfactant-passivated CdS and HgS nanoparticles: Time-dependent absorption and luminescence profiles. Nanoscale, 2010, 2, 145-152.	5.6	50
65	Formulation of saponin stabilized nanoemulsion by ultrasonic method and its role to protect the degradation of quercitin from UV light. Ultrasonics Sonochemistry, 2016, 31, 29-38.	8.2	50
66	Highly photoluminescent and pH sensitive nitrogen doped carbon dots (NCDs) as a fluorescent sensor for the efficient detection of Cr (VI) ions in aqueous media. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117572.	3.9	50
67	Incorporation of Antitubercular Drug Isoniazid in Pharmaceutically Accepted Microemulsion: Effect on Microstructure and Physical Parameters. Pharmaceutical Research, 2008, 25, 227-236.	3.5	49
68	Tween-Embedded Microemulsionsâ€"Physicochemical and Spectroscopic Analysis for Antitubercular Drugs. AAPS PharmSciTech, 2010, 11, 143-153.	3.3	49
69	Nanoemulsion: A new medium to study the interactions and stability of curcumin with bovine serum albumin. Journal of Molecular Liquids, 2015, 209, 62-70.	4.9	49
70	Recyclable CuO nanoparticles as heterogeneous catalysts for the synthesis of xanthenes under solvent free conditions. RSC Advances, 2014, 4, 49462-49470.	3.6	48
71	Europium-doped gadolinium oxide nanoparticles: A potential photoluminescencent probe for highly selective and sensitive detection of Fe3+ and Cr3+ ions. Sensors and Actuators B: Chemical, 2017, 243, 579-588.	7.8	47
72	Enhanced solubilization of curcumin in mixed surfactant vesicles. Food Chemistry, 2016, 199, 660-666.	8.2	45

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73	Visible-light-driven photocatalytic properties of self assembled cauliflower-like AgCl/ZnO hierarchical nanostructures. Journal of Molecular Catalysis A, 2015, 408, 189-201.	4.8	44
74	Solar light driven enhanced photocatalytic degradation of brilliant green dye based on ZnS quantum dots. Superlattices and Microstructures, 2017, 103, 365-375.	3.1	44
75	Temperature-induced percolation behavior of AOT reverse micelles affected by poly(ethylene glycol)s. Journal of Colloid and Interface Science, 2006, 296, 690-699.	9.4	43
76	Surfactant assisted synthesis and spectroscopic characterization of selenium nanoparticles in ambient conditions. Nanotechnology, 2008, 19, 295601.	2.6	42
77	Microwave-assisted synthesis of small Ru nanoparticles and their role in degradation of congo red. Journal of Colloid and Interface Science, 2013, 411, 173-181.	9.4	42
78	Adsorption Studies of Cationic, Anionic and Azo-Dyes via Monodispersed Fe₃O₄ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 3240-3245.	0.9	42
79	Fluorescent spongy carbon nanoglobules derived from pineapple juice: A potential sensing probe for specific and selective detection of chromium (VI) ions. Ceramics International, 2017, 43, 7011-7019.	4.8	42
80	Visible light driven photocatalytic degradation of ofloxacin and malachite green dye using cadmium sulphide nanoparticles. Journal of Environmental Chemical Engineering, 2018, 6, 3631-3639.	6.7	42
81	An insight into the micellization of dodecyldimethylethylammonium bromide (DDAB) in the presence of bovine serum albumin (BSA). Journal of Colloid and Interface Science, 2008, 323, 426-434.	9.4	41
82	Investigation of the growth mechanism of the formation of ZnO nanorods by thermal decomposition of zinc acetate and their field emission properties. CrystEngComm, 2017, 19, 2264-2270.	2.6	41
83	Micellar behavior of aqueous solutions of dodecyldimethylethylammonium bromide, dodecyltrimethylammonium chloride and tetradecyltrimethylammonium chloride in the presence of Î±-, Î²-, HPÎ²- and Î³-cyclodextrins. Journal of Colloid and Interface Science, 2008, 321, 442-451.	9.4	40
84	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
85	Formulation and physiochemical study of Î±-tocopherol based oil in water nanoemulsion stabilized with non toxic, biodegradable surfactant: Sodium stearoyl lactate. Ultrasonics Sonochemistry, 2017, 38, 570-578.	8.2	40
86	Highly-sensitive and selective detection of hydrazine at gold electrode modified with PEG-coated CdS nanoparticles. Sensors and Actuators B: Chemical, 2013, 188, 372-377.	7.8	39
87	Synthesis of highly luminescent water stable ZnO quantum dots as photoluminescent sensor for picric acid. Journal of Luminescence, 2014, 154, 148-154.	3.1	39
88	Physiochemical and cytotoxicity study of TPGS stabilized nanoemulsion designed by ultrasonication method. Ultrasonics Sonochemistry, 2017, 34, 173-182.	8.2	39
89	Colorimetric sensing of Fe3+ ions in aqueous solution using magnesium oxide nanoparticles synthesized using green approach. Chemical Physics Letters, 2018, 706, 53-61.	2.6	39
90	Synthesis and characterization of 1D-Co/Zn MOFs having potential for efficient dye adsorption from wastewater. Journal of Molecular Structure, 2021, 1226, 129327.	3.6	39

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91	Sb2O3â€“ZnO nanospindles: A potential material for photocatalytic and sensing applications. Ceramics International, 2015, 41, 5429-5438.	4.8	38
92	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
93	Magnetically retrievable Ce-doped Fe₃O₄ nanoparticles as scaffolds for the removal of azo dyes. RSC Advances, 2019, 9, 23129-23141.	3.6	37
94	Colorimetric detection of mercury ions based on anti-aggregation of gold nanoparticles using 3, 5-dimethyl-1-thiocarboxamidepyrazole. Microchemical Journal, 2019, 148, 299-305.	4.5	37
95	A comparative study of thermophysical and spectroscopic properties in mixtures of isomeric butanediol and N,N-dimethylformamide. Journal of Chemical Thermodynamics, 2006, 38, 836-848.	2.0	36
96	The critical role of surfactants towards CdS nanoparticles: synthesis, stability, optical and PL emission properties. RSC Advances, 2013, 3, 2662.	3.6	36
97	Visible-light photocatalyzed synthesis of 2-aryl N -methylpyrroles, furans and thiophenes utilizing arylsulfonyl chlorides as a coupling partner. Tetrahedron, 2016, 72, 2521-2526.	1.9	36
98	Self-assembly of cetylpyridinium chloride in waterâ€“DMF binary mixtures: A spectroscopic and physicochemical approach. Journal of Colloid and Interface Science, 2008, 321, 426-433.	9.4	34
99	A comparison on the performance of zinc oxide and hematite nanoparticles for highly selective and sensitive detection of para-nitrophenol. Journal of Applied Electrochemistry, 2015, 45, 253-261.	2.9	34
100	Azaindole modified imine moiety as fluorescent probe for highly sensitive detection of Fe3+ ions. Sensors and Actuators B: Chemical, 2016, 232, 396-401.	7.8	34
101	Surfactant functionalized tungsten oxide nanoparticles with enhanced photocatalytic activity. Chemical Engineering Journal, 2016, 288, 423-431.	12.7	34
102	Nanocuboidal-shaped zirconium based metal organic framework for the enhanced adsorptive removal of nonsteroidal anti-inflammatory drug, ketorolac tromethamine, from aqueous phase. New Journal of Chemistry, 2018, 42, 1921-1930.	2.8	34
103	A convenient synthesis of some symmetrical and unsymmetrical diarylmethyl sulfur and selenium compounds: X-ray crystal structure of diphenylmethylseleno-2-propene and bis[p-chlorophenyl(phenyl)methyl] diselenide. Journal of Organometallic Chemistry, 2004, 689, 3327-3334.	1.8	33
104	An efficient and green synthesis of xanthene derivatives using CuS quantum dots as a heterogeneous and reusable catalyst under solvent free conditions. RSC Advances, 2015, 5, 8205-8209.	3.6	33
105	(Cationic + nonionic) mixed surfactant aggregates for solubilisation of curcumin. Journal of Chemical Thermodynamics, 2016, 93, 115-122.	2.0	32
106	Encompassment of Benzyl Isothiocyanate in cyclodextrin using ultrasonication methodology to enhance its stability for biological applications. Ultrasonics Sonochemistry, 2017, 39, 25-33.	8.2	32
107	Graphene/silver nanocomposites-potential electron mediators for proliferation in electrochemical sensing and SERS activity. TrAC - Trends in Analytical Chemistry, 2017, 86, 155-171.	11.4	32
108	Facile synthesis of sulfur and nitrogen codoped graphene quantum dots for optical sensing of Hg and Ag ions. Chemical Physics Letters, 2019, 730, 436-444.	2.6	32

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109	Dehydroacetic acid derived Schiff base as selective and sensitive colorimetric chemosensor for the detection of Cu(II) ions in aqueous medium. Microchemical Journal, 2020, 155, 104705.	4.5	32
110	Thermophysical and Spectroscopic Studies of Pure 1-Butyl-3-methylimidazolium Tetrafluoroborate and Its Aqueous Mixtures. Journal of Solution Chemistry, 2014, 43, 340-359.	1.2	31
111	Effect of placement of hydroxyl groups in isomeric butanediol on the behaviour of thermophysical and spectroscopic properties of pyrrolidin-2-one. Journal of Chemical Thermodynamics, 2005, 37, 791-801.	2.0	30
112	Chitosan nanoparticles as a biocompatible and efficient nanowagon for benzyl isothiocyanate. International Journal of Biological Macromolecules, 2018, 115, 18-28.	7.5	30
113	Biomimetic Solid Lipid Nanoparticles of Sophorolipids Designed for Antileprosy Drugs. Journal of Physical Chemistry B, 2018, 122, 6837-6845.	2.6	30
114	Graphene-Templated Cobalt Nanoparticle Embedded Nitrogen-Doped Carbon Nanotubes for Efficient Visible-Light Photocatalysis. Crystal Growth and Design, 2020, 20, 4627-4639.	3.0	30
115	Self aggregation and solution behavior of copper and nickel based surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 403, 103-109.	4.7	29
116	Tyloxapol Niosomes as Prospective Drug Delivery Module for Antiretroviral Drug Nevirapine. AAPS PharmSciTech, 2015, 16, 67-75.	3.3	29
117	Mixed micelles of Lecithinâ€“Tyloxapol as pharmaceutical nanocarriers for anti-tubercular drug delivery. Colloids and Surfaces B: Biointerfaces, 2013, 110, 419-425.	5.0	27
118	Functionalized carbon nanotubes and their promising applications in therapeutics and diagnostics. , 2016, , 455-478.		27
119	Development of an off-on selective fluorescent sensor for the detection of Fe3+ ions based on Schiff base and its Hirshfeld surface and DFT studies. Journal of Molecular Liquids, 2019, 296, 111814.	4.9	27
120	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
121	Solvothermal assisted phosphate functionalized graphitic carbon nitride quantum dots for optical sensing of Fe ions and its thermodynamic aspects. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117773.	3.9	26
122	TLR2 Agonistic Small Molecules: Detailed Structureâ€“Activity Relationship, Applications, and Future Prospects. Journal of Medicinal Chemistry, 2021, 64, 233-278.	6.4	26
123	Nanoscale surface designing of Cerium oxide nanoparticles for controlling growth, stability, optical and thermal properties. Ceramics International, 2015, 41, 10995-11003.	4.8	25
124	Highly selective probe based on imine linkage for Zn2+ and HSO3â^' in mixed aqueous media. Journal of Luminescence, 2015, 160, 282-288.	3.1	25
125	Biosynthesis of silver nanocrystals, their kinetic profile from nucleation to growth and optical sensing of mercuric ions. Journal of Cleaner Production, 2019, 228, 294-302.	9.3	25
126	BiF3 octahedrons: A potential natural solar light active photocatalyst for the degradation of Rhodamine B dye in aqueous phase. Materials Research Bulletin, 2019, 112, 376-383.	5.2	25

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127	Non-Enzymatic Glucose Sensor Based on Well-Crystallized ZnO Nanoparticles. Science of Advanced Materials, 2012, 4, 994-1000.	0.7	25
128	Solubilization and conformational behavior of Zein in aqueous solution of dodecyldimethylethylammonium bromide (DDAB). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 195-201.	4.7	24
129	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
130	A comparative multi-assay approach to study the toxicity behaviour of Eu2O3 nanoparticles. Journal of Molecular Liquids, 2018, 269, 783-795.	4.9	24
131	Physicochemical properties in mixtures of hexamethylphosphortriamide with 2,2,2-trichloroethanol or 2,2,2-trifluoroethanol or 1,1,1,3,3,3-hexafluoropropan-2-ol. Fluid Phase Equilibria, 2002, 201, 203-216.	2.5	23
132	Understanding the role of hexadecyltrimethylammonium bromide in the preparation of selenium nanoparticles: a spectroscopic approach. Journal of Nanoparticle Research, 2009, 11, 1759-1766.	1.9	23
133	Metal Telluride Nanomaterials: Facile Synthesis, Properties and Applications for Third Generation Devices.. ChemistrySelect, 2019, 4, 1943-1963.	1.5	23
134	Mechanistic insights of enhanced photocatalytic efficiency of SnO2-SnS2 heterostructures derived from partial sulphurization of SnO2. Separation and Purification Technology, 2020, 242, 116835.	7.9	23
135	Well-Crystalline ZnO Nanostructures for the Removal of Acridine Orange and Coomassie Brilliant Blue R-250 Hazardous Dyes. Science of Advanced Materials, 2013, 5, 1886-1894.	0.7	23
136	Synthesis and characterization of novel pyridyl/naphthyl/(diphenyl)methylseleno substituted alkanoic acids: X-ray structure of 2-pyridylselenoethanoic acid, 2-naphthylselenoethanoic acid and 2-(diphenyl)methylselenoethanoic acid. Journal of Organometallic Chemistry, 2009, 694, 179-189.	1.8	22
137	Removal of Ofloxacin from Aqueous Phase Using Ni-Doped TiO₂ Nanoparticles Under Solar Irradiation. Journal of Nanoscience and Nanotechnology, 2014, 14, 6991-6995.	0.9	22
138	Biocompatible gadolinium oxide nanoparticles as efficient agent against pathogenic bacteria. Journal of Colloid and Interface Science, 2018, 529, 496-504.	9.4	22
139	Gibbs Films of Semi-Fluorinated Alkanes at the Surface of Alkane Solutions. Langmuir, 2002, 18, 6830-6838.	3.5	21
140	Preparation and Characterization of Methyl Substituted 2,2â€²-Dipyridyl Diselenides, 2,2â€²-Dipyridyl Ditellurides, and Their Derivatives. Synthetic Communications, 2003, 33, 977-988.	2.1	21
141	Thermodynamic, transport, and spectroscopic studies for mixtures of isomeric butanediol and N-methyl-2-pyrrolidinone. Journal of Chemical Thermodynamics, 2009, 41, 1329-1338.	2.0	21
142	Bare and cationic surfactants capped tungsten trioxide nanoparticles based hydrazine chemical sensors: A comparative study. Sensors and Actuators B: Chemical, 2016, 230, 571-580.	7.8	21
143	Synthesis of biosurfactantâ€coated magnesium oxide nanoparticles for methylene blue removal and selective Pb²⁺sensing. IET Nanobiotechnology, 2018, 12, 241-253.	3.8	21
144	Facile Solubilization of Organochalcogen Compounds in Mixed Micelle Formation of Binary and Ternary Cationicâ^'Nonionic Surfactant Mixtures. Journal of Physical Chemistry B, 2009, 113, 7188-7193.	2.6	20

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145	Significant effect of polar head group of surfactants on the solubilization of Zein in mixed micellar (SDSâ€“DDAB) media. Colloids and Surfaces B: Biointerfaces, 2010, 81, 74-80.	5.0	20
146	Understanding the role of co-surfactants in microemulsions on the growth of copper oxalate using SAXS. Physical Chemistry Chemical Physics, 2019, 21, 336-348.	2.8	20
147	Niosomes as efficient drug delivery modules for encapsulation of Toll-like receptor 7 agonists and IDO-inhibitor. Applied Surface Science, 2020, 505, 144078.	6.1	20
148	Preparation and characterization of bis[4-dimethylamino-2-pyrimidyl] dichalcogenides (S, Se, Te): X-ray crystal structure of bis[4-dimethylamino-2-pyrimidyl] diselenide and its physicochemical behavior in microemulsion media. Tetrahedron, 2009, 65, 247-252.	1.9	19
149	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
150	Designed Mesoâ€macroporous Silica Framework Impregnated with Copper Oxide Nanoparticles for Enhanced Catalytic Performance. ChemCatChem, 2018, 10, 2087-2095.	3.7	19
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