

# Vinod Kumar Gupta

## List of Publications by Year in descending order

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406  
papers

56,661  
citations

944

115  
h-index

1381

222  
g-index

412  
all docs

412  
docs citations

412  
times ranked

33500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of low-cost adsorbents for dye removal – A review. Journal of Environmental Management, 2009, 90, 2313-2342.	3.8	2,877
2	Chemical treatment technologies for waste-water recycling – an overview. RSC Advances, 2012, 2, 6380.	1.7	1,313
3	Adsorptive removal of dyes from aqueous solution onto carbon nanotubes: A review. Advances in Colloid and Interface Science, 2013, 193-194, 24-34.	7.0	1,023
4	Enhanced photocatalytic activity of ZnO/CuO nanocomposite for the degradation of textile dye on visible light illumination. Materials Science and Engineering C, 2013, 33, 91-98.	3.8	923
5	Cadmium removal and recovery from aqueous solutions by novel adsorbents prepared from orange peel and Fe <sub>2</sub> O <sub>3</sub> nanoparticles. Chemical Engineering Journal, 2012, 180, 81-90.	6.6	835
6	Removal and recovery of Chrysoidine Y from aqueous solutions by waste materials. Journal of Colloid and Interface Science, 2010, 344, 497-507.	5.0	805
7	Adsorption process of methyl orange dye onto mesoporous carbon material – kinetic and thermodynamic studies. Journal of Colloid and Interface Science, 2011, 362, 457-462.	5.0	713
8	Multi-walled carbon nanotubes-ionic liquid-carbon paste electrode as a super selectivity sensor: Application to potentiometric monitoring of mercury ion(II). Journal of Hazardous Materials, 2010, 183, 402-409.	6.5	691
9	Chromium removal by combining the magnetic properties of iron oxide with adsorption properties of carbon nanotubes. Water Research, 2011, 45, 2207-2212.	5.3	690
10	Bioadsorbents for remediation of heavy metals: Current status and their future prospects. Environmental Engineering Research, 2015, 20, 1-18.	1.5	668
11	Removal of basic dye Auramine-O by ZnS:Cu nanoparticles loaded on activated carbon: optimization of parameters using response surface methodology with central composite design. RSC Advances, 2015, 5, 18438-18450.	1.7	650
12	Adsorption of hazardous dye crystal violet from wastewater by waste materials. Journal of Colloid and Interface Science, 2010, 343, 463-473.	5.0	628
13	Processing methods, characteristics and adsorption behavior of tire derived carbons: A review. Advances in Colloid and Interface Science, 2014, 211, 93-101.	7.0	624
14	Adsorptive removal of hazardous anionic dye – Congo red – from wastewater using waste materials and recovery by desorption. Journal of Colloid and Interface Science, 2009, 340, 16-26.	5.0	619
15	Removal of lead and chromium from wastewater using bagasse fly ash – a sugar industry waste. Journal of Colloid and Interface Science, 2004, 271, 321-328.	5.0	617
16	Conducting PANI stimulated ZnO system for visible light photocatalytic degradation of coloured dyes. Journal of Molecular Liquids, 2016, 221, 1029-1033.	2.3	608
17	A comparative investigation on adsorption performances of mesoporous activated carbon prepared from waste rubber tire and activated carbon for a hazardous azo dye – Acid Blue 113. Journal of Hazardous Materials, 2011, 186, 891-901.	6.5	588
18	ZnO/Ag/CdO nanocomposite for visible light-induced photocatalytic degradation of industrial textile effluents. Journal of Colloid and Interface Science, 2015, 452, 126-133.	5.0	579

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19	Modeling of competitive ultrasonic assisted removal of the dyes " Methylene blue and Safranin-O using Fe <sub>3</sub> O <sub>4</sub> nanoparticles. Chemical Engineering Journal, 2015, 268, 28-37.	6.6	570
20	A novel magnetic Fe@Au core-shell nanoparticles anchored graphene oxide recyclable nanocatalyst for the reduction of nitrophenol compounds. Water Research, 2014, 48, 210-217.	5.3	565
21	Cellulose: A review as natural, modified and activated carbon adsorbent. Bioresource Technology, 2016, 216, 1066-1076.	4.8	538
22	ZnO/Ag nanocomposite: An efficient catalyst for degradation studies of textile effluents under visible light. Materials Science and Engineering C, 2013, 33, 2235-2244.	3.8	525
23	A new approach for the degradation of high concentration of aromatic amine by heterocatalytic Fenton oxidation: Kinetic and spectroscopic studies. Journal of Molecular Liquids, 2012, 173, 153-163.	2.3	521
24	Removal of hazardous dyes-BR 12 and methyl orange using graphene oxide as an adsorbent from aqueous phase. Chemical Engineering Journal, 2016, 284, 687-697.	6.6	519
25	Ce <sup>3+</sup> -ion-induced visible-light photocatalytic degradation and electrochemical activity of ZnO/CeO <sub>2</sub> nanocomposite. Scientific Reports, 2016, 6, 31641.	1.6	506
26	Biosorption of lead from aqueous solutions by green algae Spirogyra species: Kinetics and equilibrium studies. Journal of Hazardous Materials, 2008, 152, 407-414.	6.5	498
27	Biosorption of Chromium(VI) From Aqueous solutions by green algae spirogyra species. Water Research, 2001, 35, 4079-4085.	5.3	497
28	Adsorption studies on the removal of coloring agent phenol red from wastewater using waste materials as adsorbents. Journal of Colloid and Interface Science, 2009, 337, 345-354.	5.0	467
29	Visible light induced degradation of methylene blue using CeO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> and CeO <sub>2</sub> /CuO catalysts. Materials Science and Engineering C, 2013, 33, 4725-4731.	3.8	465
30	Decoloration treatment of a hazardous triarylmethane dye, Light Green SF (Yellowish) by waste material adsorbents. Journal of Colloid and Interface Science, 2010, 342, 518-527.	5.0	463
31	The photocatalytic activity of ZnO prepared by simple thermal decomposition method at various temperatures. Journal of Molecular Liquids, 2013, 177, 394-401.	2.3	459
32	The role of nanomaterials as effective adsorbents and their applications in wastewater treatment. Journal of Nanostructure in Chemistry, 2017, 7, 1-14.	5.3	444
33	ZnO/Ag/Mn <sub>2</sub> O <sub>3</sub> nanocomposite for visible light-induced industrial textile effluent degradation, uric acid and ascorbic acid sensing and antimicrobial activity. RSC Advances, 2015, 5, 34645-34651.	1.7	426
34	Thiazole Schiff base turn-on fluorescent chemosensor for Al <sup>3+</sup> ion. Sensors and Actuators B: Chemical, 2014, 195, 98-108.	4.0	424
35	Design parameters for fixed bed reactors of activated carbon developed from fertilizer waste for the removal of some heavy metal ions. Waste Management, 1998, 17, 517-522.	3.7	423
36	Potential of activated carbon from waste rubber tire for the adsorption of phenolics: Effect of pre-treatment conditions. Journal of Colloid and Interface Science, 2014, 417, 420-430.	5.0	409

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37	Photochemical degradation of the hazardous dye Safranin-T using TiO <sub>2</sub> catalyst. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 464-469.	5.0	408
38	A novel electro analytical nanosensor based on graphene oxide/silver nanoparticles for simultaneous determination of quercetin and morin. <i>Electrochimica Acta</i> , 2014, 120, 204-211.	2.6	388
39	Neutral carriers based polymeric membrane electrodes for selective determination of mercury (II). <i>Analytica Chimica Acta</i> , 2007, 590, 81-90.	2.6	384
40	Defluoridation of wastewaters using waste carbon slurry. <i>Water Research</i> , 2007, 41, 3307-3316.	5.3	378
41	Chromium removal from water by activated carbon developed from waste rubber tires. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1261-1268.	2.7	370
42	Preparation and characterization of V <sub>2</sub> O <sub>5</sub> /ZnO nanocomposite system for photocatalytic application. <i>Journal of Molecular Liquids</i> , 2014, 198, 409-412.	2.3	363
43	Mercury selective potentiometric sensor based on low rim functionalized thiacalix [4]-arene as a cationic receptor. <i>Journal of Molecular Liquids</i> , 2013, 177, 114-118.	2.3	359
44	Pesticides removal from waste water by activated carbon prepared from waste rubber tire. <i>Water Research</i> , 2011, 45, 4047-4055.	5.3	352
45	Comparative study on photocatalytic activity of ZnO prepared by different methods. <i>Journal of Molecular Liquids</i> , 2013, 181, 133-141.	2.3	348
46	A reversible fluorescence "on-off" sensor for sequential detection of aluminum and acetate/fluoride ions. <i>Talanta</i> , 2015, 144, 80-89.	2.9	344
47	A cobalt(II)-selective PVC membrane based on a Schiff base complex of N,N'-bis(salicylidene)-3,4-diaminotoluene. <i>Analytica Chimica Acta</i> , 2006, 566, 5-10.	2.6	338
48	Kinetic, thermodynamic and isotherm studies for acid blue 129 removal from liquids using copper oxide nanoparticle-modified activated carbon as a novel adsorbent. <i>Journal of Molecular Liquids</i> , 2015, 201, 124-133.	2.3	338
49	Removal of Reactofix golden yellow 3 RFN from aqueous solution using wheat husk "An agricultural waste. <i>Journal of Hazardous Materials</i> , 2007, 142, 443-448.	6.5	337
50	Equilibrium uptake and sorption dynamics for the removal of a basic dye (basic red) using low-cost adsorbents. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 257-264.	5.0	334
51	A novel copper (II) selective sensor based on Dimethyl 4, 4'-bis(o-phenylene) bis(3-thioallophanate) in PVC matrix. <i>Journal of Molecular Liquids</i> , 2012, 174, 11-16.	2.3	334
52	Batch and bulk removal of hazardous colouring agent Rose Bengal by adsorption techniques using bottom ash as adsorbent. <i>RSC Advances</i> , 2012, 2, 8381.	1.7	333
53	Visible light degradation of textile effluent using novel catalyst ZnO $\beta$ -Mn <sub>2</sub> O <sub>3</sub> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1910-1917.	2.7	333
54	Fabrication of novel shape Cu and Cu/Cu <sub>2</sub> O nanoparticles modified electrode for the determination of dopamine and paracetamol. <i>Journal of Molecular Liquids</i> , 2016, 221, 930-941.	2.3	332

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55	Selective naked-eye detection of Magnesium (II) ions using a coumarin-derived fluorescent probe. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 216-223.	4.0	325
56	A novel detection method for organophosphorus insecticide fenamiphos: Molecularly imprinted electrochemical sensor based on core-shell Co <sub>3</sub> O <sub>4</sub> @MOF-74 nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 174-185.	5.0	307
57	Synthesis, characterization and antibacterial activity of biodegradable starch/PVA composite films reinforced with cellulosic fibre. <i>Carbohydrate Polymers</i> , 2014, 109, 171-179.	5.1	305
58	PVC-based membranes of N,N- $\epsilon^2$ -dibenzyl-1,4,10,13-tetraoxa-7,16-diazacyclooctadecane as Pb(II)-selective sensor. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 259-265.	4.0	304
59	Electrochemical removal of the hazardous dye Reactofix Red 3 BFN from industrial effluents. <i>Journal of Colloid and Interface Science</i> , 2007, 312, 292-296.	5.0	270
60	Process development for the batch and bulk removal and recovery of a hazardous, water-soluble azo dye (Metanil Yellow) by adsorption over waste materials (Bottom Ash and De-Oiled Soya). <i>Journal of Hazardous Materials</i> , 2008, 151, 821-832.	6.5	254
61	Cadmium (II) ion sensing through p-tert-butyl calix[6]arene based potentiometric sensor. <i>Journal of Molecular Liquids</i> , 2014, 195, 65-68.	2.3	251
62	A new epirubicin biosensor based on amplifying DNA interactions with polypyrrole and nitrogen-doped reduced graphene: Experimental and docking theoretical investigations. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 568-574.	4.0	246
63	A novel voltammetric sensor based on gold nanoparticles involved in p-aminothiophenol functionalized multi-walled carbon nanotubes: Application to the simultaneous determination of quercetin and rutin. <i>Electrochimica Acta</i> , 2014, 119, 24-31.	2.6	243
64	A sensitive molecular imprinted electrochemical sensor based on gold nanoparticles decorated graphene oxide: Application to selective determination of tyrosine in milk. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 149-157.	4.0	242
65	Modeling of quaternary dyes adsorption onto ZnO@NR@AC artificial neural network: Analysis by derivative spectrophotometry. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 186-197.	2.9	240
66	Voltammetric amplified platform based on ionic liquid/NiO nanocomposite for determination of benserazide and levodopa. <i>Journal of Molecular Liquids</i> , 2019, 278, 672-676.	2.3	237
67	Chemical sensor for lanthanum(III) determination using aza-crown as ionophore in poly(vinyl Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.8	229
68	Review on augmentation in photocatalytic activity of CoFe <sub>2</sub> O <sub>4</sub> via heterojunction formation for photocatalysis of organic pollutants in water. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 1119-1136.	2.4	224
69	A novel and sensitive electrochemical DNA biosensor based on Fe@Au nanoparticles decorated graphene oxide. <i>Electrochimica Acta</i> , 2014, 125, 38-47.	2.6	218
70	Heavy metal adsorption using PAMAM/CNT nanocomposite from aqueous solution in batch and continuous fixed bed systems. <i>Chemical Engineering Journal</i> , 2018, 346, 258-270.	6.6	211
71	A sensitive molecularly imprinted polymer based quartz crystal microbalance nanosensor for selective determination of lovastatin in red yeast rice. <i>Food Chemistry</i> , 2015, 185, 430-436.	4.2	208
72	Adsorptive removal of cadmium(II) ions from liquid phase using acid modified carbon-based adsorbents. <i>Journal of Molecular Liquids</i> , 2015, 204, 255-263.	2.3	202

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73	A new multifunctional rhodamine-derived probe for colorimetric sensing of Cu(II) and Al(III) and fluorometric sensing of Fe(III) in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 101-113.	4.0	200
74	Adsorption behavior of Hg(II), Pb(II), and Cd(II) from aqueous solution on Duolite C-433: a synthetic resin. <i>Journal of Colloid and Interface Science</i> , 2004, 275, 398-402.	5.0	199
75	A cerium(III) selective polyvinyl chloride membrane sensor based on a Schiff base complex of N,N'-bis[2-(salicylideneamino)ethyl]ethane-1,2-diamine. <i>Analytica Chimica Acta</i> , 2006, 575, 198-204.	2.6	199
76	Removal of noxious Cr (VI) ions using single-walled carbon nanotubes and multi-walled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2015, 279, 344-352.	6.6	198
77	Molecularly imprinted electrochemical biosensor based on Fe@Au nanoparticles involved in 2-aminoethanethiol functionalized multi-walled carbon nanotubes for sensitive determination of cefexime in human plasma. <i>Biosensors and Bioelectronics</i> , 2014, 60, 277-285.	5.3	181
78	Enhanced removal of methyl orange from aqueous solutions by poly HEMA-chitosan-MWCNT nano-composite. <i>Journal of Molecular Liquids</i> , 2015, 202, 189-198.	2.3	180
79	Adsorptional photocatalytic degradation of methylene blue onto pectin-CuS nanocomposite under solar light. <i>Journal of Hazardous Materials</i> , 2012, 243, 179-186.	6.5	177
80	A comparative study on the basis of adsorption capacity between CNTs and activated carbon as adsorbents for removal of noxious synthetic dyes: a review. <i>Journal of Nanostructure in Chemistry</i> , 2015, 5, 227-236.	5.3	177
81	Sensitive and selective determination of aqueous triclosan based on gold nanoparticles on polyoxometalate/reduced graphene oxide nanohybrid. <i>RSC Advances</i> , 2015, 5, 65953-65962.	1.7	169
82	Sensitive voltammetric sensor based on polyoxometalate/reduced graphene oxide nanomaterial: Application to the simultaneous determination of l-tyrosine and l-tryptophan. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 47-54.	4.0	168
83	Synthesis and characterization of metal oxides (CeO <sub>2</sub> , CuO, NiO, Mn <sub>3</sub> O <sub>4</sub> , SnO <sub>2</sub> and ZnO) nanoparticles as photo catalysts for degradation of textile dyes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 43-49.	1.7	168
84	CoFe <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> decorated reduced graphene oxide nanocomposite for photocatalytic degradation of chlorpyrifos. <i>Journal of Molecular Liquids</i> , 2015, 208, 122-129.	2.3	166
85	Enhanced removal of Cr(VI) from aqueous solutions using polypyrrole wrapped oxidized MWCNTs nanocomposites adsorbent. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 257-267.	5.0	166
86	ZnO/CdO nanocomposites for textile effluent degradation and electrochemical detection. <i>Journal of Molecular Liquids</i> , 2015, 209, 374-380.	2.3	163
87	Enhanced Antibacterial effect of chitosan film using Montmorillonite/CuO nanocomposite. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1219-1231.	3.6	163
88	Magnetic iron oxide and iron oxide@gold nanoparticle anchored nitrogen and sulfur-functionalized reduced graphene oxide electrocatalyst for methanol oxidation. <i>RSC Advances</i> , 2015, 5, 26402-26409.	1.7	157
89	Ag <sub>3</sub> PO <sub>4</sub> modified phosphorus and sulphur co-doped graphitic carbon nitride as a direct Z-scheme photocatalyst for 2, 4-dimethyl phenol degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 374, 22-35.	2.0	153
90	Adsorption of Amido Black 10B from aqueous solution using polyaniline/SiO <sub>2</sub> nanocomposite: Experimental investigation and artificial neural network modeling. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 246-261.	5.0	148

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91	Efficient removal of toxic bromothymol blue and methylene blue from wastewater by polyvinyl alcohol. <i>Journal of Molecular Liquids</i> , 2016, 218, 191-197.	2.3	141
92	A novel efficient photocatalyst based on TiO <sub>2</sub> nanoparticles involved boron enrichment waste for photocatalytic degradation of atrazine. <i>Chemical Engineering Journal</i> , 2014, 250, 288-294.	6.6	139
93	Thermodynamics of the adsorption of nickel ions from aqueous phase using graphene oxide and glycine functionalized graphene oxide. <i>Journal of Molecular Liquids</i> , 2015, 208, 106-113.	2.3	138
94	MWCNTs-Fe <sub>3</sub> O <sub>4</sub> nanocomposite for Hg(II) high adsorption efficiency. <i>Journal of Molecular Liquids</i> , 2018, 258, 345-353.	2.3	136
95	High-performance removal of diazinon pesticide from water using multi-walled carbon nanotubes. <i>Microchemical Journal</i> , 2019, 145, 486-491.	2.3	136
96	Removal of hexavalent chromium ions using CuO nanoparticles for water purification applications. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 54-62.	5.0	135
97	Batch and column studies of phosphate and nitrate adsorption on waste solids containing boron impurity. <i>Chemical Engineering Journal</i> , 2013, 222, 108-119.	6.6	133
98	Sensitive determination of citrinin based on molecular imprinted electrochemical sensor. <i>Applied Surface Science</i> , 2016, 362, 315-322.	3.1	133
99	Towards green synthesis of monodisperse Cu nanoparticles: An efficient and high sensitive electrochemical nitrite sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 873-882.	4.0	133
100	Adsorptive and photocatalytic removal of reactive dyes by silver nanoparticle-colemanite ore waste. <i>Chemical Engineering Journal</i> , 2014, 242, 333-340.	6.6	131
101	The use of low-cost adsorbent (Canola residues) for the adsorption of methylene blue from aqueous solution: Isotherm, kinetic and thermodynamic studies. <i>Colloids and Interface Science Communications</i> , 2015, 7, 16-19.	2.0	128
102	Biosorption of lead from aqueous solutions by <i>Bacillus</i> strains possessing heavy-metal resistance. <i>Chemical Engineering Journal</i> , 2011, 173, 422-428.	6.6	127
103	Nanoparticles as Adsorbent; A Positive Approach for Removal of Noxious Metal Ions: A Review. <i>Science Technology and Development</i> , 2015, 34, 195-214.	0.3	127
104	Equilibrium and kinetic adsorption study of Basic Yellow 28 and Basic Red 46 by a boron industry waste. <i>Journal of Hazardous Materials</i> , 2009, 161, 148-156.	6.5	125
105	Adsorption of malachite green from aqueous solution by carboxylate group functionalized multi-walled carbon nanotubes: Determination of equilibrium and kinetics parameters. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 130-138.	2.9	125
106	Sensitive analysis of simazine based on platinum nanoparticles on polyoxometalate/multi-walled carbon nanotubes. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 14-21.	5.0	125
107	Enhanced removal of toxic Congo red dye using multi walled carbon nanotubes: Kinetic, equilibrium studies and its comparison with other adsorbents. <i>Journal of Molecular Liquids</i> , 2015, 212, 266-271.	2.3	123
108	Kinetics and thermodynamics of malachite green dye adsorption from aqueous solutions on graphene oxide and reduced graphene oxide. <i>Journal of Molecular Liquids</i> , 2016, 214, 259-263.	2.3	122

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109	Removal of Ni (II) ions from water using scrap tire. <i>Journal of Molecular Liquids</i> , 2014, 190, 215-222.	2.3	121
110	Crystallinity and lowering band gap induced visible light photocatalytic activity of TiO <sub>2</sub> /CS (Chitosan) nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1239-1245.	3.6	121
111	A novel impedimetric biosensor based on graphene oxide/gold nanoplatform for detection of DNA arrays. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1201-1211.	4.0	120
112	A novel glucose biosensor platform based on Ag@AuNPs modified graphene oxide nanocomposite and SERS application. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 231-237.	5.0	120
113	Kinetics and thermodynamics of enhanced adsorption of the dye AR 18 using activated carbons prepared from walnut and poplar woods. <i>Journal of Molecular Liquids</i> , 2015, 208, 99-105.	2.3	120
114	Synthesis and adsorption properties of mesoporous material for the removal of dye safranin: Kinetics, equilibrium, and thermodynamics. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 19-27.	2.9	120
115	Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic. <i>Journal of Molecular Liquids</i> , 2018, 260, 342-350.	2.3	119
116	Fabrication of Ag <sub>3</sub> VO <sub>4</sub> decorated phosphorus and sulphur co-doped graphitic carbon nitride as a high-dispersed photocatalyst for phenol mineralization and E. coli disinfection. <i>Separation and Purification Technology</i> , 2019, 212, 887-900.	3.9	119
117	Comparative study of colorimetric sensors based on newly synthesized Schiff bases. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 642-651.	4.0	118
118	Acrylic acid grafted cellulosic Luffa cylindrical fiber for the removal of dye and metal ions. <i>Carbohydrate Polymers</i> , 2013, 98, 1214-1221.	5.1	113
119	A novel sensitive Cu(II) and Cd(II) nanosensor platform: Graphene oxide terminated p-aminophenyl modified glassy carbon surface. <i>Electrochimica Acta</i> , 2013, 112, 541-548.	2.6	112
120	A novel colorimetric detection probe for copper(II) ions based on a Schiff base. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 408-417.	4.0	112
121	A highly selective colorimetric and turn-on fluorescent chemosensor based on 1-(2-pyridylazo)-2-naphthol for the detection of aluminium(III) ions. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 15-24.	4.0	112
122	Kinetics, equilibrium studies and thermodynamics of methylene blue adsorption on Ephedra strobilacea saw dust and modified using phosphoric acid and zinc chloride. <i>Journal of Molecular Liquids</i> , 2016, 218, 208-218.	2.3	112
123	Facile route synthesis of novel graphene oxide- $\beta$ -cyclodextrin nanocomposite and its application as adsorbent for removal of toxic bisphenol A from the aqueous phase. <i>Journal of Molecular Liquids</i> , 2017, 237, 466-472.	2.3	112
124	Multiwall carbon nanotube modified glassy carbon electrode as voltammetric sensor for the simultaneous determination of ascorbic acid and caffeine. <i>Electrochimica Acta</i> , 2013, 93, 248-253.	2.6	111
125	Application of response surface methodology to optimize the adsorption performance of a magnetic graphene oxide nanocomposite adsorbent for removal of methadone from the environment. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 193-200.	5.0	110
126	Kinetics of the adsorption of Pb(II) ions from aqueous solutions by graphene oxide and thiol functionalized graphene oxide. <i>Journal of Molecular Liquids</i> , 2015, 209, 50-57.	2.3	109



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127	A novel optical sensor for copper ions based on phthalocyanine tetrasulfonic acid. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 389-394.	4.0	109
128	Removal of humic acid from aqueous solution using UV/ZnO nano-photocatalysis and adsorption. <i>Journal of Molecular Liquids</i> , 2016, 213, 374-380.	2.3	109
129	Electrochemical Detection of Atrazine by Platinum Nanoparticles/Carbon Nitride Nanotubes with Molecularly Imprinted Polymer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 7631-7639.	1.8	109
130	Carbonaceous adsorbent prepared from waste tires: Experimental and computational evaluations of organic dye methyl orange. <i>Journal of Molecular Liquids</i> , 2014, 191, 85-91.	2.3	108
131	Ultrasound assisted adsorption of malachite green dye onto ZnS:Cu-NP-AC: Equilibrium isotherms and kinetic studies – Response surface optimization. <i>Separation and Purification Technology</i> , 2015, 156, 780-788.	3.9	108
132	A novel electrochemical aflatoxin B1 immunosensor based on gold nanoparticle-decorated porous graphene nanoribbon and Ag nanocube-incorporated MoS <sub>2</sub> nanosheets. <i>New Journal of Chemistry</i> , 2021, 45, 11222-11233.	1.4	106
133	Conductive polymers in water treatment: A review. <i>Journal of Molecular Liquids</i> , 2020, 312, 113447.	2.3	104
134	Adsorption of copper (II) using modified activated carbon prepared from Pomegranate wood: Optimization by bee algorithm and response surface methodology. <i>Journal of Molecular Liquids</i> , 2015, 206, 195-206.	2.3	103
135	Review on advances in photocatalytic water disinfection utilizing graphene and graphene derivatives-based nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103132.	3.3	103
136	Molecular imprinted nanosensor based on surface plasmon resonance: Application to the sensitive determination of amoxicillin. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 28-35.	4.0	102
137	Degradation of azo dyes under different wavelengths of UV light with chitosan-SnO <sub>2</sub> nanocomposites. <i>Journal of Molecular Liquids</i> , 2017, 232, 423-430.	2.3	102
138	Sequestration of toxic congo red dye from aqueous solution using ecofriendly guar gum/ activated carbon nanocomposite.. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 1310-1318.	3.6	102
139	Polyaniline zirconium (IV) silicophosphate nanocomposite for remediation of methylene blue dye from waste water. <i>Journal of Molecular Liquids</i> , 2014, 190, 139-145.	2.3	101
140	Preparation of bio-based porous carbon by microwave assisted phosphoric acid activation and its use for adsorption of Cr(VI). <i>Journal of Colloid and Interface Science</i> , 2013, 401, 125-132.	5.0	100
141	Adsorption mechanism of functionalized multi-walled carbon nanotubes for advanced Cu (II) removal. <i>Journal of Molecular Liquids</i> , 2017, 230, 667-673.	2.3	100
142	A highly selective and sensitive voltammetric sensor with molecularly imprinted polymer based silver@gold nanoparticles/ionic liquid modified glassy carbon electrode for determination of ceftizoxime. <i>Journal of Molecular Liquids</i> , 2018, 251, 212-217.	2.3	100
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148	Removal of Safranin dye from aqueous solution using magnetic mesoporous clay: Optimization study. <i>Journal of Molecular Liquids</i> , 2015, 212, 675-685.	2.3	98
149	Sustainable electrode material for high-energy supercapacitor: biomass-derived graphene-like porous carbon with three-dimensional hierarchically ordered ion highways. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12807-12821.	1.3	98
150	Adsorption of cadmium (II) and zinc (II) on boron enrichment process waste in aqueous solutions: Batch and fixed-bed system studies. <i>Chemical Engineering Journal</i> , 2012, 192, 1-7.	6.6	96
151	Use of pectin-thorium (IV) tungstomolybdate nanocomposite for photocatalytic degradation of methylene blue. <i>Carbohydrate Polymers</i> , 2013, 96, 277-283.	5.1	95
152	Antipyrine based Schiff bases as Turn-on Fluorescent sensors for Al (III) ion. <i>Electrochimica Acta</i> , 2014, 117, 405-412.	2.6	95
153	New molecular imprinted voltammetric sensor for determination of ochratoxin A. <i>Materials Science and Engineering C</i> , 2016, 61, 368-375.	3.8	95
154	Adsorptive removal of fluoride from aqueous solution using single- and multi-walled carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2016, 216, 401-410.	2.3	95
155	Synthesis and characteristics of polyaniline/zirconium oxide conductive nanocomposite for dye adsorption application. <i>Journal of Molecular Liquids</i> , 2016, 218, 494-498.	2.3	94
156	Microwave-assisted removal of malachite green by carboxylate functionalized multi-walled carbon nanotubes: Kinetics and equilibrium study. <i>Journal of Molecular Liquids</i> , 2015, 206, 151-158.	2.3	93
157	Microwave-assisted synthesis of tetraethylenepentamine functionalized activated carbon with high adsorption capacity for Malachite green dye. <i>Journal of Molecular Liquids</i> , 2016, 213, 317-325.	2.3	93
158	Adsorptive removal of Pb (II) ions from aqueous solution using CuO nanoparticles synthesized by sputtering method. <i>Journal of Molecular Liquids</i> , 2017, 225, 936-944.	2.3	93
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161	Green synthesis of silver nanoparticles using seed extract of <i>Calendula officinalis</i> in liquid phase. <i>Journal of Molecular Liquids</i> , 2015, 207, 159-163.	2.3	91
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164	Fabrication and characterization of Fe@MoPO nanoparticles: Ion exchange behavior and photocatalytic activity against malachite green. <i>Journal of Molecular Liquids</i> , 2016, 219, 1137-1143.	2.3	90
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168	Sorption of phenol from waters on activated carbon impregnated with iron oxide, aluminum oxide and titanium oxide. <i>Journal of Molecular Liquids</i> , 2016, 213, 351-359.	2.3	89
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170	Experimental design, modeling and mechanism of cationic dyes biosorption on to magnetic chitosan-lutaraldehyde composite. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 633-645.	3.6	89
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172	A molecular imprinted SPR biosensor for sensitive determination of citrinin in red yeast rice. <i>Food Chemistry</i> , 2015, 184, 7-11.	4.2	87
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177	Electrochemical determination of vitamin C in the presence of NADH using a CdO nanoparticle/ionic liquid modified carbon paste electrode as a sensor. <i>Journal of Molecular Liquids</i> , 2016, 213, 312-316.	2.3	83
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185	Controlled release of antibiotic amoxicillin drug using carboxymethyl cellulose-cl-poly(lactic) Tj ETQq1 1 0.784314 r <sub>g</sub> BT /Overlock 10 Tj	3.8	79
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194	Synthesis and characterization of mesoporous activated carbon from rice husk for adsorption of glycine from alcohol-aqueous mixture. <i>Journal of Molecular Liquids</i> , 2013, 177, 416-425.	2.3	75
195	Fluorescent chemosensors for Zn <sup>2+</sup> ions based on flavonol derivatives. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 674-682.	4.0	75
196	Determination of amikacin in human plasma by molecular imprinted SPR nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 70-76.	4.0	74
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198	Synthesis of MWCNT-COOH-Cysteamine composite and its application for dye removal. <i>Journal of Molecular Liquids</i> , 2016, 215, 221-228.	2.3	74

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200	Colorimetric sensor for cyanide and acetate ion using novel biologically active hydrazones. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 125-135.	4.0	73
201	Nanocomposite pectin Zr(IV) selenotungstophosphate for adsorptional/photocatalytic remediation of methylene blue and malachite green dyes from aqueous system. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 957-964.	2.9	73
202	Adsorption of gold from cyanide leaching solution onto activated carbon originating from coconut shell—Optimization, kinetics and equilibrium studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 464-471.	2.9	73
203	Line defect Ce <sup>3+</sup> induced Ag/CeO <sub>2</sub> /ZnO nanostructure for visible-light photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 499-506.	2.0	73
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211	Polyaniline nanofibers as highly effective re-usable adsorbent for removal of reactive black 5 from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 442-451.	5.0	70
212	Electrochemical studies on graphene oxide-supported metallic and bimetallic nanoparticles for fuel cell applications. <i>Journal of Molecular Liquids</i> , 2014, 191, 172-176.	2.3	69
213	Liquid phase synthesis of pectin-cadmium sulfide nanocomposite and its photocatalytic and antibacterial activity. <i>Journal of Molecular Liquids</i> , 2014, 196, 107-112.	2.3	69
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218	Zn doped CdO nanoparticles: Structural, morphological, optical, photocatalytic and anti-bacterial properties. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 164-170.	5.0	66
219	Highly Sensitive and Selective Colorimetric and Off-On Fluorescent Reversible Chemosensors for Al <sup>3+</sup> Based on the Rhodamine Fluorophore. <i>Sensors</i> , 2015, 15, 9097-9111.	2.1	65
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222	Removal of As(III) and As(V) using rubber tire derived activated carbon modified with alumina composite. <i>Journal of Molecular Liquids</i> , 2016, 216, 836-844.	2.3	65
223	Amputation of congo red dye from waste water using microwave induced grafted <i>Luffa cylindrica</i> cellulosic fiber. <i>Carbohydrate Polymers</i> , 2014, 111, 556-566.	5.1	64
224	Adsorptional removal of methylene blue by guar gum- cerium (IV) tungstate hybrid cationic exchanger. <i>Carbohydrate Polymers</i> , 2014, 101, 684-691.	5.1	64
225	Fabrication of ZnS-cellulose nanocomposite for drug delivery, antibacterial and photocatalytic activity. <i>Materials and Design</i> , 2015, 87, 1056-1064.	3.3	64
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232	Spectroscopic and computational evaluation of cadmium adsorption using activated carbon produced from rubber tires. <i>Journal of Molecular Liquids</i> , 2013, 188, 136-142.	2.3	59
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237	Kinetics and thermodynamics of Malachite Green dye removal from aqueous phase using iron nanoparticles loaded on ash. <i>Journal of Molecular Liquids</i> , 2016, 223, 1340-1347.	2.3	57
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240	Phenol adsorption on scoria stone as adsorbent - Application of response surface method and artificial neural networks. <i>Journal of Molecular Liquids</i> , 2019, 274, 699-714.	2.3	57
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273	A novel electrochemical sensor based on ZnO nanoparticle and ionic liquid binder for square wave voltammetric determination of drosidopa in pharmaceutical and urine samples. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 603-609.	4.0	43
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283	Dehalogenation of aromatic halides by polyaniline/zero-valent iron composite nanofiber: Kinetics and mechanisms. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 207-216.	10.8	40
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287	Synthesis of nanocomposites from polyacrylamide and graphene oxide: Application as flocculants for water purification. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 505-510.	5.0	39
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402	Immobilized Micro-Organism in Mesoporous Activated Carbon for Treatment of Tannery Waste Water. <i>Tenside, Surfactants, Detergents</i> , 2012, 49, 472-480.	0.5	2
403	Modified Nanoporous Asymmetric Polyacrylonitrile Membranes with Merpol as a Hydrophilic Surfactant: Insulin Separation. <i>Asian Journal of Chemistry</i> , 2016, 28, 1757-1762.	0.1	1
404	Optimization of Conditions for Preparation of Activated Carbon from Coconut Husk Fiber Using Responses from Measurements of Surface Area and Adsorption. <i>Asian Journal of Chemistry</i> , 2016, 28, 714-724.	0.1	1
405	Liquid-Liquid Separation Through Polymeric Membranes. , 2018, , 217-241.		1
406	The inactivation of fecal coliform using Fe <sub>3</sub> O <sub>4</sub> @Cu nanocomposite in real wastewater: emphasizing on synergic effect and inactivation mechanisms. , 0, 123, 41-51.		1