

# Mehrorang Ghaedi

## List of Publications by Year in descending order

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398  
papers

24,474  
citations

4658

85  
h-index

14208

128  
g-index

401  
all docs

401  
docs citations

401  
times ranked

15266  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.6	650
2	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.	12.7	570
3	Simultaneous preconcentration and determination of copper, nickel, cobalt and lead ions content by flame atomic absorption spectrometry. Journal of Hazardous Materials, 2007, 142, 272-278.	12.4	429
4	Hydrophilic Multitemplate Molecularly Imprinted Biopolymers Based on a Green Synthesis Strategy for Determination of B-Family Vitamins. ACS Applied Materials & Interfaces, 2018, 10, 4140-4150.	8.0	310
5	Dummy molecularly imprinted polymers based on a green synthesis strategy for magnetic solid-phase extraction of acrylamide in food samples. Talanta, 2019, 195, 390-400.	5.5	302
6	Optimization of the ultrasonic assisted removal of methylene blue by gold nanoparticles loaded on activated carbon using experimental design methodology. Ultrasonics Sonochemistry, 2014, 21, 242-252.	8.2	270
7	Cloud point extraction and flame atomic absorption spectrometric determination of cadmium(II), lead(II), palladium(II) and silver(I) in environmental samples. Journal of Hazardous Materials, 2009, 168, 1022-1027.	12.4	267
8	Ultrasonically assisted hydrothermal synthesis of activated carbon"HKUST-1-MOF hybrid for efficient simultaneous ultrasound-assisted removal of ternary organic dyes and antibacterial investigation: Taguchi optimization. Ultrasonics Sonochemistry, 2016, 31, 383-393.	8.2	267
9	Multiwalled Carbon Nanotubes as Adsorbents for the Kinetic and Equilibrium Study of the Removal of Alizarin Red S and Morin. Journal of Chemical & Engineering Data, 2011, 56, 2511-2520.	1.9	245
10	Modeling of quaternary dyes adsorption onto ZnO"NR"AC artificial neural network: Analysis by derivative spectrophotometry. Journal of Industrial and Engineering Chemistry, 2016, 34, 186-197.	5.8	240
11	Carbon based materials: a review of adsorbents for inorganic and organic compounds. Materials Advances, 2021, 2, 598-627.	5.4	232
12	Response surface methodology approach for optimization of simultaneous dye and metal ion ultrasound-assisted adsorption onto Mn doped Fe <sub>3</sub> O <sub>4</sub> -NPs loaded on AC: kinetic and isothermal studies. Dalton Transactions, 2015, 44, 14707-14723.	3.3	230
13	Development of a Lower Toxic Approach Based on Green Synthesis of Water-Compatible Molecularly Imprinted Nanoparticles for the Extraction of Hydrochlorothiazide from Human Urine. ACS Sustainable Chemistry and Engineering, 2017, 5, 3775-3785.	6.7	219
14	Comparison of silver and palladium nanoparticles loaded on activated carbon for efficient removal of Methylene blue: Kinetic and isotherm study of removal process. Powder Technology, 2012, 228, 18-25.	4.2	206
15	Sonochemical-assisted synthesis of CuO/Cu <sub>2</sub> O/Cu nanoparticles as efficient photocatalyst for simultaneous degradation of pollutant dyes in rotating packed bed reactor: LED illumination and central composite design optimization. Ultrasonics Sonochemistry, 2018, 40, 601-610.	8.2	202
16	Highly Selective and Sensitive Preconcentration of Mercury Ion and Determination by Cold Vapor Atomic Absorption Spectroscopy. Analytical Letters, 2006, 39, 1171-1185.	1.8	200
17	Optimization of the combined ultrasonic assisted/adsorption method for the removal of malachite green by gold nanoparticles loaded on activated carbon: Experimental design. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 55-65.	3.9	191
18	Novel strategy for synthesis of magnetic dummy molecularly imprinted nanoparticles based on functionalized silica as an efficient sorbent for the determination of acrylamide in potato chips: Optimization by experimental design methodology. Talanta, 2016, 154, 526-532.	5.5	186

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19	The determination of some heavy metals in food samples by flame atomic absorption spectrometry after their separation-preconcentration on bis salicyl aldehyde, 1,3 propan diimine (BSPDI) loaded on activated carbon. <i>Journal of Hazardous Materials</i> , 2008, 154, 128-134.	12.4	183
20	Simultaneous ultrasound-assisted ternary adsorption of dyes onto copper-doped zinc sulfide nanoparticles loaded on activated carbon: Optimization by response surface methodology. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 203-212.	3.9	182
21	Synthesis of magnetic $\text{Fe}_3\text{O}_4$ -based nanomaterial for ultrasonic assisted dyes adsorption: Modeling and optimization. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 418-431.	8.2	174
22	Statistical experimental design, least squares-support vector machine (LS-SVM) and artificial neural network (ANN) methods for modeling the facilitated adsorption of methylene blue dye. <i>RSC Advances</i> , 2016, 6, 40502-40516.	3.6	168
23	Screening and optimization of highly effective ultrasound-assisted simultaneous adsorption of cationic dyes onto Mn-doped $\text{Fe}_3\text{O}_4$ -nanoparticle-loaded activated carbon. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 1-12.	8.2	165
24	Comparative study on ultrasonic assisted adsorption of dyes from single system onto $\text{Fe}_3\text{O}_4$ magnetite nanoparticles loaded on activated carbon: Experimental design methodology. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 294-304.	8.2	164
25	Highly efficient simultaneous ultrasonic assisted adsorption of brilliant green and eosin B onto ZnS nanoparticles loaded activated carbon: Artificial neural network modeling and central composite design optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 257-267.	3.9	160
26	Development of dummy molecularly imprinted based on functionalized silica nanoparticles for determination of acrylamide in processed food by matrix solid phase dispersion. <i>Food Chemistry</i> , 2016, 210, 78-84.	8.2	156
27	The performance of nanorods material as adsorbent for removal of azo dyes and heavy metal ions: Application of ultrasound wave, optimization and modeling. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 792-802.	8.2	153
28	Application of central composite design for simultaneous removal of methylene blue and $\text{Pb}^{2+}$ ions by walnut wood activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 479-490.	3.9	149
29	Ultrasonic enhancement of the simultaneous removal of quaternary toxic organic dyes by $\text{CuO}$ nanoparticles loaded on activated carbon: Central composite design, kinetic and isotherm study. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 546-557.	8.2	149
30	Magnetic nanoparticle based dispersive micro-solid-phase extraction for the determination of malachite green in water samples: optimized experimental design. <i>New Journal of Chemistry</i> , 2015, 39, 9813-9823.	2.8	146
31	Experimental design based response surface methodology optimization of ultrasonic assisted adsorption of safranin O by tin sulfide nanoparticle loaded on activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 223-231.	3.9	145
32	Preparation and Characterization of $\text{Mn}_{0.4}\text{Zn}_{0.6}\text{Fe}_2\text{O}_4$ Nanoparticles Supported on Dead Cells of <i>Yarrowia lipolytica</i> as a Novel and Efficient Adsorbent/Biosorbent Composite for the Removal of Azo Food Dyes: Central Composite Design Optimization Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4549-4563.	6.7	142
33	Application of machine/statistical learning, artificial intelligence and statistical experimental design for the modeling and optimization of methylene blue and $\text{Cd}^{2+}$ removal from a binary aqueous solution by natural walnut carbon. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11299-11317.	2.8	141
34	Photocatalytic degradation of binary mixture of toxic dyes by HKUST-1 MOF and HKUST-1-SBA-15 in a rotating packed bed reactor under blue LED illumination: central composite design optimization. <i>RSC Advances</i> , 2016, 6, 17204-17214.	3.6	140
35	Ultrasound-assisted binary adsorption of dyes onto $\text{Mn@CuS/ZnS-NC-AC}$ as a novel adsorbent: Application of chemometrics for optimization and modeling. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 377-388.	5.8	137
36	Preparation of low cost activated carbon from <i>Myrtus communis</i> and pomegranate and their efficient application for removal of Congo red from aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 107-114.	3.9	136

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37	Rapid removal of Auramine-O and Methylene blue by ZnS:Cu nanoparticles loaded on activated carbon: A response surface methodology approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 53, 80-91.	5.3	136
38	Sonophotocatalytic degradation of trypan blue and vesuvine dyes in the presence of blue light active photocatalyst of Ag <sub>3</sub> PO <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> -HKUST-1-MOF: Central composite optimization and synergistic effect study. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 387-397.	8.2	136
39	Rapid ultrasound-assisted magnetic microextraction of gallic acid from urine, plasma and water samples by HKUST-1-MOF-Fe <sub>3</sub> O <sub>4</sub> -GA-MIP-NPs: UV-vis detection and optimization study. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 561-570.	8.2	132
40	Enhanced simultaneous removal of malachite green and safranin O by ZnO nanorod-loaded activated carbon: modeling, optimization and adsorption isotherms. <i>New Journal of Chemistry</i> , 2015, 39, 7998-8005.	2.8	130
41	Ternary dye adsorption onto MnO <sub>2</sub> nanoparticle-loaded activated carbon: derivative spectrophotometry and modeling. <i>RSC Advances</i> , 2015, 5, 72300-72320.	3.6	129
42	Least square-support vector (LS-SVM) method for modeling of methylene blue dye adsorption using copper oxide loaded on activated carbon: Kinetic and isotherm study. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1641-1649.	5.8	128
43	Rosmarinus officinalis leaf extract mediated green synthesis of silver nanoparticles and investigation of its antimicrobial properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 167-172.	5.8	128
44	Application of ZnO nanorods loaded on activated carbon for ultrasonic assisted dyes removal: Experimental design and derivative spectrophotometry method. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 197-209.	8.2	127
45	Hollow porous molecularly imprinted polymer for highly selective clean-up followed by influential preconcentration of ultra-trace glibenclamide from bio-fluid. <i>Journal of Chromatography A</i> , 2017, 1520, 65-74.	3.7	127
46	Isotherms and kinetic study of ultrasound-assisted adsorption of malachite green and Pb <sup>2+</sup> ions from aqueous samples by copper sulfide nanorods loaded on activated carbon: Experimental design optimization. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 373-382.	8.2	127
47	Experimental design and modeling of ultrasound assisted simultaneous adsorption of cationic dyes onto ZnS: Mn-NPs-AC from binary mixture. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 77-89.	8.2	125
48	Application of artificial neural network and response surface methodology for the removal of crystal violet by zinc oxide nanorods loaded on activate carbon: kinetics and equilibrium study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 59, 210-220.	5.3	122
49	Preparation of nanomaterials for the ultrasound-enhanced removal of Pb <sup>2+</sup> ions and malachite green dye: Chemometric optimization and modeling. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 677-691.	8.2	121
50	Flame atomic absorption spectrometric determination of zinc, nickel, iron and lead in different matrixes after solid phase extraction on sodium dodecyl sulfate (SDS)-coated alumina as their bis (2-hydroxyacetophenone)-1, 3-propanediimine chelates. <i>Journal of Hazardous Materials</i> , 2009, 166, 1441-1448.	12.4	119
51	Flame atomic absorption spectrometric determination of trace amounts of heavy metal ions after solid phase extraction using modified sodium dodecyl sulfate coated on alumina. <i>Journal of Hazardous Materials</i> , 2008, 155, 121-127.	12.4	118
52	A hybrid artificial neural network and particle swarm optimization for prediction of removal of hazardous dye brilliant green from aqueous solution using zinc sulfide nanoparticle loaded on activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 1004-1015.	3.9	118
53	Performance of CuS nanoparticle loaded on activated carbon in the adsorption of methylene blue and bromophenol blue dyes in binary aqueous solutions: Using ultrasound power and optimization by central composite design. <i>Journal of Molecular Liquids</i> , 2016, 219, 667-676.	4.9	118
54	Flame atomic absorption spectrometric determination of copper, zinc and manganese after solid-phase extraction using 2,6-dichlorophenyl-3,3-bis(indolyl)methane loaded on Amberlite XAD-16. <i>Food and Chemical Toxicology</i> , 2010, 48, 891-897.	3.6	117

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55	Hydrogel membranes: A review. <i>Materials Science and Engineering C</i> , 2020, 114, 111023.	7.3	117
56	Central composite design and genetic algorithm applied for the optimization of ultrasonic-assisted removal of malachite green by ZnO Nanorod-loaded activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 167, 157-164.	3.9	114
57	Response surface methodology approach for optimization of adsorption of Janus Green B from aqueous solution onto ZnO/Zn(OH) <sub>2</sub> -NP-AC: Kinetic and isotherm study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 233-240.	3.9	114
58	Water compatible molecularly imprinted nanoparticles as a restricted access material for extraction of hippuric acid, a biological indicator of toluene exposure, from human urine. <i>Mikrochimica Acta</i> , 2017, 184, 879-887.	5.0	113
59	Fe <sub>3</sub> O <sub>4</sub> -FeMoS <sub>4</sub> : Promise magnetite LDH-based adsorbent for simultaneous removal of Pb (II), Cd (II), and Cu (II) heavy metal ions. <i>Journal of Hazardous Materials</i> , 2021, 410, 124560.	12.4	113
60	Sonochemical assisted hydrothermal synthesis of ZnO: Cr nanoparticles loaded activated carbon for simultaneous ultrasound-assisted adsorption of ternary toxic organic dye: Derivative spectrophotometric, optimization, kinetic and isotherm study. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 119-131.	8.2	110
61	Fabrication of water-compatible superparamagnetic molecularly imprinted biopolymer for clean separation of baclofen from bio-fluid samples: A mild and green approach. <i>Talanta</i> , 2018, 179, 760-768.	5.5	110
62	Ultrasound-assisted removal of Al <sup>3+</sup> ions and Alizarin red S by activated carbon engrafted with Ag nanoparticles: central composite design and genetic algorithm optimization. <i>RSC Advances</i> , 2015, 5, 59522-59532.	3.6	109
63	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.	7.9	108
64	Application of hydrophobic deep eutectic solvent as the carrier for ferrofluid: A novel strategy for pre-concentration and determination of mefenamic acid in human urine samples by high performance liquid chromatography under experimental design optimization. <i>Talanta</i> , 2019, 202, 526-530.	5.5	108
65	Design and construction of nanoscale material for ultrasonic assisted adsorption of dyes: Application of derivative spectrophotometry and experimental design methodology. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 112-123.	8.2	107
66	Ultrasound assisted combined molecularly imprinted polymer for selective extraction of nicotinamide in human urine and milk samples: Spectrophotometric determination and optimization study. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 640-650.	8.2	106
67	Artificial neural network-genetic algorithm based optimization for the adsorption of methylene blue and brilliant green from aqueous solution by graphite oxide nanoparticle. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 125, 264-277.	3.9	105
68	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.	4.9	103
69	BiPO <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> -HKUST-1-MOF as a novel blue light-driven photocatalyst for simultaneous degradation of toluidine blue and auramine-O dyes in a new rotating packed bed reactor: optimization and comparison to a conventional reactor. <i>RSC Advances</i> , 2016, 6, 63667-63680.	3.6	103
70	Simultaneous removal of dyes onto nanowires adsorbent use of ultrasound assisted adsorption to clean waste water: Chemometrics for modeling and optimization, multicomponent adsorption and kinetic study. <i>Chemical Engineering Research and Design</i> , 2017, 124, 222-237.	5.6	103
71	Ultrasonic-assisted magnetic solid phase extraction of morphine in urine samples by new imprinted polymer-supported on MWCNT-Fe <sub>3</sub> O <sub>4</sub> -NPs: Central composite design optimization. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 240-248.	8.2	100
72	Ultrasound wave assisted adsorption of congo red using gold-magnetic nanocomposite loaded on activated carbon: Optimization of process parameters. <i>Ultrasonics Sonochemistry</i> , 2018, 46, 99-105.	8.2	100

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73	Application of least squares support vector regression and linear multiple regression for modeling removal of methyl orange onto tin oxide nanoparticles loaded on activated carbon and activated carbon prepared from Pistacia atlantica wood. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 425-434.	9.4	99
74	Isotherm and kinetics study of malachite green adsorption onto copper nanowires loaded on activated carbon: Artificial neural network modeling and genetic algorithm optimization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 135-149.	3.9	96
75	Optimization of ultrasound-assisted dispersive solid-phase microextraction based on nanoparticles followed by spectrophotometry for the simultaneous determination of dyes using experimental design. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 407-417.	8.2	95
76	Optimization of the process parameters for the adsorption of ternary dyes by Ni doped FeO(OH)-NWs@AC using response surface methodology and an artificial neural network. <i>RSC Advances</i> , 2016, 6, 19768-19779.	3.6	95
77	Preparation and characterization of MWCNTs functionalized by N-(3-nitrobenzylidene)-N,N-dimethylpropyl-ethane-1,2-diamine for the removal of aluminum(III) ions via complexation with eriochrome cyanine R: spectrophotometric detection and optimization. <i>RSC Advances</i> , 2015, 5, 61060-61069.	3.6	94
78	Ag <sub>3</sub> PO <sub>4</sub> /AgBr/Ag-HKUST-1-MOF composites as novel blue LED light active photocatalyst for enhanced degradation of ternary mixture of dyes in a rotating packed bed reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 114, 24-38.	3.6	94
79	Synthesis of nickel sulfide nanoparticles loaded on activated carbon as a novel adsorbent for the competitive removal of Methylene blue and Safranin-O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 123, 402-409.	3.9	93
80	A simple ultrasensitive electrochemical sensor for simultaneous determination of gallic acid and uric acid in human urine and fruit juices based on zirconia-choline chloride-gold nanoparticles-modified carbon paste electrode. <i>Biosensors and Bioelectronics</i> , 2018, 114, 30-36.	10.1	93
81	Synthesis and application of in-situ molecularly imprinted silica monolithic in pipette-tip solid-phase microextraction for the separation and determination of gallic acid in orange juice samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1048, 102-110.	2.3	92
82	Local, cheap and nontoxic activated carbon as efficient adsorbent for the simultaneous removal of cadmium ions and malachite green: Optimization by surface response methodology. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 760-767.	5.8	91
83	Modeling and optimization of simultaneous removal of ternary dyes onto copper sulfide nanoparticles loaded on activated carbon using second-derivative spectrophotometry. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 212-224.	5.3	91
84	New ion-imprinted polymer-functionalized mesoporous SBA-15 for selective separation and preconcentration of Cr(III) ions: modeling and optimization. <i>RSC Advances</i> , 2015, 5, 105789-105799.	3.6	90
85	Modeling and optimization of Hg <sup>2+</sup> ion biosorption by live yeast <i>Yarrowia lipolytica</i> 70562 from aqueous solutions under artificial neural network-genetic algorithm and response surface methodology: kinetic and equilibrium study. <i>RSC Advances</i> , 2016, 6, 54149-54161.	3.6	90
86	Study of competitive adsorption of malachite green and sunset yellow dyes on cadmium hydroxide nanowires loaded on activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1085-1096.	5.8	89
87	Optimizing adsorptive removal of malachite green and methyl orange dyes from simulated wastewater by Mn-doped CuO Nanoparticles loaded on activated carbon using CCD-RSM: Mechanism, regeneration, isotherm, kinetic, and thermodynamic studies. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4768.	3.5	88
88	Multi-response optimization of ultrasound assisted competitive adsorption of dyes onto Cu(OH) <sub>2</sub> -nanoparticle loaded activated carbon: Central composite design. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 343-353.	8.2	87
89	Cadmium hydroxide nanowire loaded on activated carbon as efficient adsorbent for removal of Bromocresol Green. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 62-68.	3.9	85
90	Rapid and high-capacity ultrasonic assisted adsorption of ternary toxic anionic dyes onto MOF-5-activated carbon: Artificial neural networks, partial least squares, desirability function and isotherm and kinetic study. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 71-82.	8.2	85

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91	Cadmium telluride nanoparticles loaded on activated carbon as adsorbent for removal of sunset yellow. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 22-27.	3.9	84
92	Tin oxide nanoparticle loaded on activated carbon as new adsorbent for efficient removal of malachite green-oxalate: Non-linear kinetics and isotherm study. <i>Journal of Molecular Liquids</i> , 2014, 195, 212-218.	4.9	84
93	Synthesis of ZnO-nanorod-based materials for antibacterial, antifungal activities, DNA cleavage and efficient ultrasound-assisted dyes adsorption. <i>Ecotoxicology and Environmental Safety</i> , 2017, 142, 330-337.	6.0	84
94	Comparison of cadmium hydroxide nanowires and silver nanoparticles loaded on activated carbon as new adsorbents for efficient removal of Sunset yellow: Kinetics and equilibrium study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 94, 346-351.	3.9	83
95	Simultaneous removal of methylene blue and Pb <sup>2+</sup> ions using ruthenium nanoparticle-loaded activated carbon: response surface methodology. <i>RSC Advances</i> , 2015, 5, 83427-83435.	3.6	83
96	Principal component analysis- adaptive neuro-fuzzy inference system modeling and genetic algorithm optimization of adsorption of methylene blue by activated carbon derived from Pistacia khinjuk. <i>Ecotoxicology and Environmental Safety</i> , 2013, 96, 110-117.	6.0	82
97	Artificial neural network (ANN) method for modeling of sunset yellow dye adsorption using zinc oxide nanorods loaded on activated carbon: Kinetic and isotherm study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 134, 1-9.	3.9	82
98	Rapid adsorption of ternary dye pollutants onto copper (I) oxide nanoparticle loaded on activated carbon: Experimental optimization via response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1769-1779.	6.7	82
99	Trace determination of safranin O dye using ultrasound assisted dispersive solid-phase micro extraction: Artificial neural network-genetic algorithm and response surface methodology. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 129-140.	8.2	81
100	Biosorption of Zn <sup>2+</sup> , Ni <sup>2+</sup> and Co <sup>2+</sup> from water samples onto <i>Yarrowia lipolytica</i> ISF7 using a response surface methodology, and analyzed by inductively coupled plasma optical emission spectrometry (ICP-OES). <i>RSC Advances</i> , 2016, 6, 23599-23610.	3.6	80
101	Simple and selective detection of quercetin in extracts of plants and food samples by dispersive-micro-solid phase extraction based on core-shell magnetic molecularly imprinted polymers. <i>New Journal of Chemistry</i> , 2018, 42, 16144-16153.	2.8	80
102	Application of experimental design and derivative spectrophotometry methods in optimization and analysis of biosorption of binary mixtures of basic dyes from aqueous solutions. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 219-227.	6.0	79
103	Novel synthesis of nanocomposite for the extraction of Sildenafil Citrate (Viagra) from water and urine samples: Process screening and optimization. <i>Ultrasonics Sonochemistry</i> , 2017, 38, 463-472.	8.2	79
104	Ultrasonic assisted removal of methylene blue on ultrasonically synthesized zinc hydroxide nanoparticles on activated carbon prepared from wood of cherry tree: Experimental design methodology and artificial neural network. <i>Journal of Molecular Liquids</i> , 2017, 229, 114-124.	4.9	79
105	Comparison between dispersive liquid-liquid microextraction and ultrasound-assisted nanoparticles-dispersive solid-phase microextraction combined with microvolume spectrophotometry method for the determination of Auramine-O in water samples. <i>RSC Advances</i> , 2015, 5, 39084-39096.	3.6	78
106	Synthesis and application of molecularly imprinted nanoparticles combined ultrasonic assisted for highly selective solid phase extraction trace amount of celecoxib from human plasma samples using design expert (DXB) software. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 67-76.	8.2	78
107	Synthesis and application of Ce-doped TiO <sub>2</sub> nanoparticles loaded on activated carbon for ultrasound-assisted adsorption of Basic Red 46 dye. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104702.	8.2	78
108	Column packing elimination in matrix solid phase dispersion by using water compatible magnetic molecularly imprinted polymer for recognition of melamine from milk samples. <i>Journal of Chromatography A</i> , 2019, 1594, 13-22.	3.7	78

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109	Simultaneous ultrasound-assisted removal of sunset yellow and erythrosine by ZnS:Ni nanoparticles loaded on activated carbon: Optimization by central composite design. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1441-1450.	8.2	77
110	Simultaneous ultrasonic-assisted removal of malachite green and safranin O by copper nanowires loaded on activated carbon: central composite design optimization. <i>RSC Advances</i> , 2015, 5, 57021-57029.	3.6	77
111	Efficient removal of radioactive uranium from solvent phase using AgOH@MWCNTs nanoparticles: Kinetic and thermodynamic study. <i>Chemical Engineering Journal</i> , 2015, 273, 296-306.	12.7	77
112	Magnetic Cu: CuO-GO nanocomposite for efficient dispersive micro-solid phase extraction of polycyclic aromatic hydrocarbons from vegetable, fruit, and environmental water samples by liquid chromatographic determination. <i>Talanta</i> , 2020, 218, 121131.	5.5	77
113	Oxidized multiwalled carbon nanotubes as efficient adsorbent for bromothymol blue. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 873-883.	1.2	76
114	Cu@SnS/SnO <sub>2</sub> nanoparticles as novel sorbent for dispersive micro solid phase extraction of atorvastatin in human plasma and urine samples by high-performance liquid chromatography with UV detection: Application of central composite design (CCD). <i>Ultrasonics Sonochemistry</i> , 2017, 36, 42-49.	8.2	76
115	Synthesis of Fe <sub>3</sub> O <sub>4</sub> @CuS@Ni <sub>2</sub> P-CNTs magnetic nanocomposite for sonochemical-assisted sorption and pre-concentration of trace Allura Red from aqueous samples prior to HPLC-UV detection: CCD-RSM design. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 240-250.	8.2	76
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