Mahmoud Zarei

List of Publications by Year
in descending order

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68 papers	3,430 citations	147801 31 h-index	144013 57 g-index
68 all docs	68 docs citations	68 times ranked	2938 citing authors

#	Article	IF	Citations
1	Optimization of photocatalytic treatment of dye solution on supported TiO2 nanoparticles by central composite design: Intermediates identification. Journal of Hazardous Materials, 2010, 181, 886-897.	12.4	254
2	Application of response surface methodology for optimization of peroxi-coagulation of textile dye solution using carbon nanotubeâ€“PTFE cathode. Journal of Hazardous Materials, 2010, 173, 544-551.	12.4	187
3	Application of response surface methodology for optimization of azo dye removal by oxalate catalyzed photoelectro-Fenton process using carbon nanotube-PTFE cathode. Desalination, 2010, 258, 112-119.	8.2	173
4	Biological treatment of a dye solution by Macroalgae Chara sp.: Effect of operational parameters, intermediates identification and artificial neural network modeling. Bioresource Technology, 2010, 101, 2252-2258.	9.6	163
5	Electrochemical generation of H2O2 using immobilized carbon nanotubes on graphite electrode fed with air: Investigation of operational parameters. Journal of Electroanalytical Chemistry, 2011, 659, 63-68.	3.8	154
6	Peroxi-coagulation degradation of C.I. Basic Yellow 2 based on carbon-PTFE and carbon nanotube-PTFE electrodes as cathode. Electrochimica Acta, 2009, 54, 6651-6660.	5.2	153
7	Photoelectro-Fenton combined with photocatalytic process for degradation of an azo dye using supported TiO2 nanoparticles and carbon nanotube cathode: Neural network modeling. Electrochimica Acta, 2010, 55, 7259-7265.	5.2	137
8	Electrochemical treatment of dye solution containing C.I. Basic Yellow 2 by the peroxi-coagulation method and modeling of experimental results by artificial neural networks. Journal of Electroanalytical Chemistry, 2009, 629, 117-125.	3.8	133
9	Phytoremediation potential of duckweed (Lemna minor L.) in degradation of C.I. Acid Blue 92: Artificial neural network modeling. Ecotoxicology and Environmental Safety, 2012, 80, 291-298.	6.0	126
10	Comparative photocatalytic degradation of two dyes on immobilized TiO2 nanoparticles: Effect of dye molecular structure and response surface approach. Journal of Molecular Catalysis A, 2010, 333, 73-84.	4.8	111
11	Photocatalytic degradation of an anthraquinone dye on immobilized TiO2 nanoparticles in a rectangular reactor: Destruction pathway and response surface approach. Desalination, 2011, 268, 126-133.	8.2	106
12	Combined heterogeneous and homogeneous photodegradation of a dye using immobilized TiO2 nanophotocatalyst and modified graphite electrode with carbon nanotubes. Journal of Molecular Catalysis A, 2012, 363-364, 58-68.	4.8	96
13	Photocatalytic treatment of a dye solution using immobilized TiO2 nanoparticles combined with photoelectro-Fenton process: Optimization of operational parameters. Journal of Electroanalytical Chemistry, 2010, 648, 143-150.	3.8	94
14	Neural network modeling of biotreatment of triphenylmethane dye solution by a green macroalgae. Chemical Engineering Research and Design, 2011, 89, 172-178.	5.6	88
15	Removal of four dyes from aqueous medium by the peroxi-coagulation method using carbon nanotubeâ€“PTFE cathode and neural network modeling. Journal of Electroanalytical Chemistry, 2010, 639, 167-174.	3.8	84
16	Photocatalysis of a dye solution using immobilized ZnO nanoparticles combined with photoelectrochemical process. Desalination, 2011, 273, 453-460.	8.2	79
17	Facile synthesis of iron(II) doped carbonaceous aerogel as a three-dimensional cathode and its excellent performance in electro-Fenton degradation of ceftazidime from water solution. Separation and Purification Technology, 2021, 278, 119559.	7.9	63
18	Photoelectro-Fenton/nanophotocatalysis decolorization of three textile dyes mixture: Response surface modeling and multivariate calibration procedure for simultaneous determination. Journal of Electroanalytical Chemistry, 2012, 672, 53-62.	3.8	58

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19	Decolorization of C.I. Basic Yellow 28 solution using supported ZnO nanoparticles coupled with photoelectro-Fenton process. Journal of Electroanalytical Chemistry, 2011, 659, 107-112.	3.8	53
20	Bioremoval of an azo dye by Azolla filiculoides: Study of growth, photosynthetic pigments and antioxidant enzymes status. International Biodeterioration and Biodegradation, 2012, 75, 194-200.	3.9	50
21	Comparison of NiCo2O4, CoNiAl-LDH, and CoNiAl-LDH@NiCo2O4 performances as ORR catalysts in MFC cathode. Renewable Energy, 2020, 154, 1263-1271.	8.9	49
22	Biotreatment of a triphenylmethane dye solution using a Xanthophyta alga: Modeling of key factors by neural network. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 380-386.	5.3	46
23	Modeling and optimization of photocatalytic/photoassisted-electro-Fenton like degradation of phenol using a neural network coupled with genetic algorithm. Journal of Industrial and Engineering Chemistry, 2014, 20, 1852-1860.	5.8	42
24	Two-electron oxygen reduction on fullerene C60-carbon nanotubes covalent hybrid as a metal-free electrocatalyst. Scientific Reports, 2019, 9, 13780.	3.3	41
25	Eu-doped ZnO nanoparticles: Sonochemical synthesis, characterization, and sonocatalytic application. Ultrasonics Sonochemistry, 2020, 67, 102822.	8.2	41
26	Synthesis and characterization of magnetic Fe3O4@SiO2-MIL-53(Fe) metal-organic framework and its application for efficient removal of arsenate from surface and groundwater. Journal of Environmental Chemical Engineering, 2022, 10, 107144.	6.7	41
27	Electrochemical Treatment of Dye Solution by Oxalate Catalyzed Photoelectroâ€Fenton Process Using a Carbon Nanotubeâ€PTFE Cathode: Optimization by Central Composite Design. Clean - Soil, Air, Water, 2011, 39, 482-490.	1.1	38
28	As(III) adsorption and antimicrobial properties of Cuâ€“chitosan/alumina nanocomposite. Chemical Engineering Journal, 2015, 273, 610-621.	12.7	37
29	Phenazopyridine degradation by electro-Fenton process with magnetite nanoparticles-activated carbon cathode, artificial neural networks modeling. Journal of Environmental Chemical Engineering, 2021, 9, 104999.	6.7	36
30	Photoelectrocatalytic decolorization of diazo dye by zinc oxide nanophotocatalyst and carbon nanotube based cathode: Determination of the degradation products. Desalination, 2011, 278, 117-125.	8.2	35
31	Removal of Neutral Red Dye via Electro-Fenton Process: A Response Surface Methodology Modeling. Electrocatalysis, 2021, 12, 579-594.	3.0	35
32	Bioremediation of Malachite Green from Contaminated Water by Three Microalgae: Neural Network Modeling. Clean - Soil, Air, Water, 2010, 38, 96-103.	1.1	34
33	Combination of photocatalytic and photoelectro-Fenton/citrate processes for dye degradation using immobilized N-doped TiO2 nanoparticles and a cathode with carbon nanotubes: Central composite design optimization. Chemical Engineering and Processing: Process Intensification, 2013, 73, 103-110.	3.6	34
34	Application of microalgaChlamydomonassp. for biosorptive removal of a textile dye from contaminated water: Modelling by a neural network. Environmental Technology (United Kingdom), 2009, 30, 1615-1623.	2.2	33
35	Removal of Phenazopyridine from wastewater by merging biological and electrochemical methods via Azolla filiculoides and electro-Fenton process. Journal of Environmental Management, 2020, 254, 109802.	7.8	33
36	Potential of Hydrocotyle vulgaris for phytoremediation of a textile dye: Inducing antioxidant response in roots and leaves. Ecotoxicology and Environmental Safety, 2013, 93, 128-134.	6.0	31

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37	Synthesis of magnetic 3D graphene decorated with CaCO3 for anionic azo dye removal from aqueous solution: Kinetic and RSM modeling approach. Chemical Engineering Research and Design, 2018, 136, 795-805.	5.6	29
38	Chemometrics approach for determination and optimization of simultaneous photooxidative decolourization of a mixture of three textile dyes. Environmental Technology (United Kingdom), 2012, 33, 2305-2317.	2.2	28
39	Bioremoval of C.I. Basic Red 46 as an azo dye from contaminated water by Lemna minor L.: Modeling of key factor by neural network. Environmental Progress and Sustainable Energy, 2013, 32, 1082-1089.	2.3	27
40	Degradation of an azo dye using the green macroalgaEnteromorphasp.. Chemistry and Ecology, 2013, 29, 221-233.	1.6	27
41	Synthesis and study of functionalized magnetic graphene oxide for Pb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1201" altimg="si50.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> removal from wastewater. Environmental Technology and Innovation, 2021, 22, 101384.	6.1	27
42	Photo-assisted electrochemical abatement of trifluralin using a cathode containing a C60-carbon nanotubes composite. Chemosphere, 2018, 199, 510-523.	8.2	24
43	Removal of nalidixic acid from aqueous solutions using a cathode containing three-dimensional graphene. Journal of Water Process Engineering, 2019, 32, 100978.	5.6	23
44	POTENTIAL OF THE AQUATIC FERNAZOLLA FILICULOIDESIN BIODEGRADATION OF AN AZO DYE: MODELING OF EXPERIMENTAL RESULTS BY ARTIFICIAL NEURAL NETWORKS. International Journal of Phytoremediation, 2013, 15, 729-742.	3.1	22
45	Introducing an effective iron-based catalyst for heterogeneous electro-Fenton removal of Gemcitabine using three-dimensional graphene as cathode. Journal of Industrial and Engineering Chemistry, 2021, 96, 254-268.	5.8	20
46	Preparation of Fe@Fe2O3/3D graphene composite cathode for electrochemical removal of sulfasalazine. Chemosphere, 2021, 273, 128581.	8.2	19
47	Electrochemical advanced oxidation process of Phenazopyridine drug waste using different Ti-based IrO2-Ta2O5 anodes. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 103-111.	5.3	19
48	Combination of nanophotocatalysis with electro-Fenton-like process in the removal of phenol from aqueous solution: GC analysis and response surface approach. International Journal of Industrial Chemistry, 2012, 3, 27.	3.1	15
49	Electrochemical removal of fluoxetine via three mixed metal oxide anodes and carbonaceous cathodes from contaminated water. Environmental Research, 2022, 207, 112641.	7.5	15
50	One-pot synthesis of graphene hydrogel/M (M: Cu, Co, Ni) nanocomposites as cathodes for electrochemical removal of rifampicin from polluted water. Environmental Research, 2022, 214, 113789.	7.5	15
51	Nitrogen Doping of Commercial TiO₂ Nanoparticles for Enhanced Photocatalytic Degradation of Dye Under Visible Light: Central Composite Design Approach. Advanced Chemistry Letters, 2013, 1, 24-31.	0.1	14
52	Efficient electrochemical removal of 5-fluorouracil pharmaceutical from wastewater by mixed metal oxides via anodic oxidation process. Chemosphere, 2022, 296, 134007.	8.2	14
53	Treatment of an Azo Dye by Citrate Catalyzed Photoelectro-Fenton Process Under Visible Light using Carbon Nanotube-polytetrafluoroethylene Cathode. Current Nanoscience, 2013, 9, 387-393.	1.2	13
54	Synergy of production of value-added bioplastic, astaxanthin and phycobilin co-products and Direct Green 6 textile dye remediation in Spirulina platensis. Chemosphere, 2021, 280, 130920.	8.2	12

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55	Synthesis, characterization, and application of diethylenetriamine functionalized MIL-53(Fe) metal-organic framework for efficient As(V) removal from surface and groundwater. Journal of Solid State Chemistry, 2022, 311, 123132.	2.9	12
56	Optimization of the oxalate catalyzed photoelectro-Fenton process under visible light for removal of Reactive Red 195 using a carbon paper cathode. Research on Chemical Intermediates, 2013, 39, 3355-3369.	2.7	10
57	Simultaneous elimination of diethyl phthalate, butylated hydroxy toluene and butylated hydroxy anisole from aqueous medium by an adsorption process on pretreated waste material; investigation of isotherms and neural network modeling. Journal of the Iranian Chemical Society, 2020, 17, 1377-1386.	2.2	10
58	An effective natural mineral-catalyzed heterogeneous electro-Fenton method for degradation of an antineoplastic drug: Modeling by a neural network. Chemosphere, 2022, 291, 132810.	8.2	10
59	Facile synthesis and preparation of graphite/chitosan/graphene quantum dots nanocomposite cathode for electrochemical removal of tetracycline from aqueous solution. Separation and Purification Technology, 2022, 299, 121663.	7.9	10
60	Heterogeneous photocatalysis of a dye solution using supported TiO2 nanoparticles combined with homogeneous photoelectrochemical process: Molecular degradation products. Journal of Molecular Catalysis A, 2011, , .	4.8	9
61	Comparison of two methods for selegiline determination: A flow-injection chemiluminescence method using cadmium sulfide quantum dots and corona discharge ion mobility spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 273-280.	3.9	9
62	Removal of acid red 88 from wastewater by adsorption on agrobased waste material. A case study of Iranian golden Sesamum indicum hull. Environmental Health Engineering and Management, 2017, 4, 195-201.	0.7	8
63	Removal of direct blue 129 from aqueous medium using surfactant-modified zeolite: a neural network modeling. Environmental Health Engineering and Management, 2018, 5, 101-113.	0.7	6
64	Introduction of maize cob and husk for wastewater treatment; evaluation of isotherms and artificial neural network modeling. Journal of the Iranian Chemical Society, 2022, 19, 231-246.	2.2	5
65	Synthesis of different morphologies of metal and metal oxide nanoparticles and investigation of their catalytic properties by optical methods. Journal of Molecular Structure, 2021, 1244, 130943.	3.6	4
66	Phosphomolybdic acid immobilized on graphite as an environmental photoelectrocatalyst. Chemosphere, 2016, 161, 422-428.	8.2	3
67	Mitoxantrone removal by electrochemical method: A comparison of homogenous and heterogenous catalytic reactions. Environmental Health Engineering and Management, 2017, 4, 185-193.	0.7	3
68	Fennel (Foeniculum vulgare Mill) Plants Responses to Salicylic Acid Foliar Application as Chemical Priming Agent under Salt Stress. Biology Bulletin, 2021, 48, S45-S53.	0.5	0