

Reza Darvishi Cheshmeh Soltani

List of Publications by Year in descending order

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95
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4751
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#	ARTICLE	IF	CITATIONS
1	Photocatalytic degradation of gemifloxacin antibiotic using Zn-Co-LDH@biochar nanocomposite. <i>Journal of Hazardous Materials</i> , 2020, 382, 121070.	6.5	273
2	Sonochemical synthesis of Pr-doped ZnO nanoparticles for sonocatalytic degradation of Acid Red 17. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 371-381.	3.8	236
3	Synthesis and Characterization of Dysprosium-Doped ZnO Nanoparticles for Photocatalysis of a Textile Dye under Visible Light Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1924-1932.	1.8	182
4	In-situ electro-generation and activation of hydrogen peroxide using a CuFeNLDH-CNTs modified graphite cathode for degradation of cefazolin. <i>Journal of Environmental Management</i> , 2020, 267, 110629.	3.8	166
5	Sonocatalytic degradation of a textile dye over Gd-doped ZnO nanoparticles synthesized through sonochemical process. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 219-230.	3.8	162
6	Preparation of bio-silica/chitosan nanocomposite for adsorption of a textile dye in aqueous solutions. <i>International Biodeterioration and Biodegradation</i> , 2013, 85, 383-391.	1.9	148
7	Photocatalytic Reduction of Hexavalent Chromium over ZnO Nanorods Immobilized on Kaolin. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1079-1087.	1.8	141
8	Sonocatalytic degradation of tetracycline antibiotic using zinc oxide nanostructures loaded on nano-cellulose from waste straw as nanosonocatalyst. <i>Ultrasonics Sonochemistry</i> , 2019, 55, 117-124.	3.8	141
9	Enhanced coagulation-photocatalytic treatment of Acid red 73 dye and real textile wastewater using UVA/synthesized MgO nanoparticles. <i>Journal of Environmental Management</i> , 2016, 177, 111-118.	3.8	137
10	A review on decontamination of arsenic-contained water by electrocoagulation: Reactor configurations and operating cost along with removal mechanisms. <i>Environmental Technology and Innovation</i> , 2020, 17, 100519.	3.0	120
11	Synergistic effects of hybrid advanced oxidation processes (AOPs) based on hydrodynamic cavitation phenomenon – A review. <i>Chemical Engineering Journal</i> , 2022, 432, 134191.	6.6	117
12	Hydrodynamic cavitation based advanced oxidation processes: Studies on specific effects of inorganic acids on the degradation effectiveness of organic pollutants. <i>Journal of Molecular Liquids</i> , 2020, 307, 113002.	2.3	116
13	Ultrasonically induced ZnO@biosilica nanocomposite for degradation of a textile dye in aqueous phase. <i>Ultrasonics Sonochemistry</i> , 2016, 28, 69-78.	3.8	115
14	Silica nanopowders/alginate composite for adsorption of lead (II) ions in aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 973-980.	2.7	114
15	Photocatalytic process by immobilized carbon black/ZnO nanocomposite for dye removal from aqueous medium: Optimization by response surface methodology. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1861-1868.	2.9	110
16	Preparation of montmorillonite@alginate nanobiocomposite for adsorption of a textile dye in aqueous phase: Isotherm, kinetic and experimental design approaches. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1197-1207.	2.9	91
17	A review on carbon-based materials for heterogeneous sonocatalysis: Fundamentals, properties and applications. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104681.	3.8	86
18	Adsorption of a textile dye in aqueous phase using mesoporous activated carbon prepared from Iranian milk vetch. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1783-1791.	2.7	82

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19	Sonophotocatalytic activities of FeCuMg and CrCuMg LDHs: Influencing factors, antibacterial effects, and intermediate determination. <i>Journal of Hazardous Materials</i> , 2020, 399, 123062.	6.5	80
20	Sonocatalyzed decolorization of synthetic textile wastewater using sonochemically synthesized MgO nanostructures. <i>Ultrasonics Sonochemistry</i> , 2016, 30, 123-131.	3.8	78
21	Enhanced sonocatalysis of textile wastewater using bentonite-supported ZnO nanoparticles: Response surface methodological approach. <i>Journal of Environmental Management</i> , 2016, 179, 47-57.	3.8	76
22	Ultrafast degradation of brilliant cresyl blue under hydrodynamic cavitation based advanced oxidation processes (AOPs). <i>Water Resources and Industry</i> , 2020, 24, 100134.	1.9	76
23	A novel salt-tolerant bacterial consortium for biodegradation of saline and recalcitrant petrochemical wastewater. <i>Journal of Environmental Management</i> , 2017, 191, 198-208.	3.8	73
24	Ultrasound-assisted Fenton process using siderite nanoparticles prepared via planetary ball milling for removal of reactive yellow 81 in aqueous phase. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 210-218.	3.8	73
25	Europium-doped ZnO as a visible light responsive nanocatalyst: Sonochemical synthesis, characterization and response surface modeling of photocatalytic process. <i>Applied Catalysis A: General</i> , 2014, 488, 160-170.	2.2	71
26	Effective degradation of sulfide ions and organic sulfides in cavitation-based advanced oxidation processes (AOPs). <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104610.	3.8	67
27	Preparation of cetyltrimethylammonium bromide modified montmorillonite nanomaterial for adsorption of a textile dye. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2565-2577.	2.7	66
28	Periodate-assisted pulsed sonocatalysis of real textile wastewater in the presence of MgO nanoparticles: Response surface methodological optimization. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 181-190.	3.8	62
29	Ultrasound-assisted adsorption of textile dyes using modified nanoclay: Central composite design optimization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 178-188.	1.2	59
30	Ultrasonically facilitated adsorption of an azo dye onto nanostructures obtained from cellulosic wastes of broom and cooler straw. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 228-241.	5.0	59
31	Combination of air-dispersion cathode with sacrificial iron anode generating Fe ₂ +Fe ₃ +2O ₄ nanostructures to degrade paracetamol under ultrasonic irradiation. <i>Journal of Molecular Liquids</i> , 2019, 284, 536-546.	2.3	58
32	Sono-assisted adsorption of a textile dye on milk vetch-derived charcoal supported by silica nanopowder. <i>Journal of Environmental Management</i> , 2017, 187, 111-121.	3.8	56
33	Photoelectrochemical treatment of ammonium using seawater as a natural supporting electrolyte. <i>Chemistry and Ecology</i> , 2013, 29, 72-85.	0.6	55
34	Optimization of the adsorption of a textile dye onto nanoclay using a central composite design. <i>Turkish Journal of Chemistry</i> , 2015, 39, 734-749.	0.5	54
35	Implementation of continuously electro-generated Fe ₃ O ₄ nanoparticles for activation of persulfate to decompose amoxicillin antibiotic in aquatic media: UV254 and ultrasound intensification. <i>Journal of Environmental Management</i> , 2018, 224, 315-326.	3.8	54
36	Photocatalytic degradation of formaldehyde in aqueous solution using ZnO nanoparticles immobilized on glass plates. <i>Desalination and Water Treatment</i> , 2015, 53, 1613-1620.	1.0	53

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37	Implementation of magnetic Fe ₃ O ₄ @ZIF-8 nanocomposite to activate sodium percarbonate for highly effective degradation of organic compound in aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 68, 406-415.	2.9	53
38	Response surface methodological evaluation of the adsorption of textile dye onto biosilica/alginate nanobiocomposite: thermodynamic, kinetic, and isotherm studies. <i>Desalination and Water Treatment</i> , 2015, 56, 1389-1402.	1.0	51
39	Decomposition of ibuprofen in water via an electrochemical process with nano-sized carbon black-coated carbon cloth as oxygen-permeable cathode integrated with ultrasound. <i>Chemosphere</i> , 2018, 194, 471-480.	4.2	50
40	Implementation of martite nanoparticles prepared through planetary ball milling as a heterogeneous activator of oxone for degradation of tetracycline antibiotic: Ultrasound and peroxy-enhancement. <i>Chemosphere</i> , 2018, 210, 699-708.	4.2	49
41	Combination of Carbon Black@ZnO/UV Process with an Electrochemical Process Equipped with a Carbon Black@PTFE-Coated Gas-Diffusion Cathode for Removal of a Textile Dye. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14133-14142.	1.8	48
42	Electrochemical generation of hydrogen peroxide using carbon black-, carbon nanotube-, and carbon black/carbon nanotube-coated gas-diffusion cathodes: effect of operational parameters and decolorization study. <i>Research on Chemical Intermediates</i> , 2013, 39, 4277-4286.	1.3	47
43	Stone cutting industry waste-supported zinc oxide nanostructures for ultrasonic assisted decomposition of an anti-inflammatory non-steroidal pharmaceutical compound. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104669.	3.8	47
44	Ultrasound-engineered synthesis of WS ₂ @CeO ₂ heterostructure for sonocatalytic degradation of tylosin. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105114.	3.8	47
45	Photocatalytic degradation of a textile dye in aqueous phase over ZnO nanoparticles embedded in biosilica nanobiostructure. <i>Desalination and Water Treatment</i> , 2016, 57, 13494-13504.	1.0	46
46	Template-free microspheres decorated with Cu-Fe-NLDH for catalytic removal of gentamicin in heterogeneous electro-Fenton process. <i>Journal of Environmental Management</i> , 2019, 248, 109236.	3.8	46
47	N, S co-doped graphene quantum dot@decorated Fe ₃ O ₄ nanostructures: Preparation, characterization and catalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 127, 140-150.	1.9	46
48	Optimization of lead (II) biosorption in an aqueous solution using chemically modified aerobic digested sludge. <i>Water Science and Technology</i> , 2011, 63, 129-135.	1.2	42
49	Photocatalytic decolorization of methylene blue using immobilized ZnO nanoparticles prepared by solution combustion method. <i>Desalination and Water Treatment</i> , 2012, 44, 174-179.	1.0	42
50	Optimisation of the operational parameters during a biological nitrification process using response surface methodology. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 13-22.	0.9	42
51	Utilisation of immobilised activated sludge for the biosorption of chromium (VI). <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1539-1546.	0.9	37
52	The application of ZnO/SiO ₂ nanocomposite for the photocatalytic degradation of a textile dye in aqueous solutions in comparison with pure ZnO nanoparticles. <i>Desalination and Water Treatment</i> , 2015, 56, 2551-2558.	1.0	34
53	Hybrid sonocatalysis/electrolysis process for intensified decomposition of amoxicillin in aqueous solution in the presence of magnesium oxide nanocatalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 373-382.	2.9	31
54	Peroxydisulfate activation by in-situ synthesized Fe ₃ O ₄ nanoparticles for degradation of atrazine: Performance and mechanism. <i>Separation and Purification Technology</i> , 2020, 247, 116925.	3.9	30

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55	Application of a compound containing silica for removing ammonium in aqueous media. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 105-111.	1.3	28
56	Enhanced Sono-Fenton-Like Oxidation of PAH-Contaminated Soil Using Nano-Sized Magnetite as Catalyst: Optimization with Response Surface Methodology. <i>Soil and Sediment Contamination</i> , 2017, 26, 538-557.	1.1	28
57	Adsorption of Cr(VI) by Natural Clinoptilolite Zeolite from Aqueous Solutions: Isotherms and Kinetics. <i>Polish Journal of Chemical Technology</i> , 2017, 19, 106-114.	0.3	27
58	An innovative combination of electrochemical and photocatalytic processes for decontamination of bisphenol A endocrine disruptor from aquatic phase: Insight into mechanism, enhancers and bio-toxicity assay. <i>Separation and Purification Technology</i> , 2019, 220, 42-51.	3.9	27
59	Activation of peroxymonosulfate using carbon black nano-spheres/calcium alginate hydrogel matrix for degradation of acetaminophen: Fe ₃ O ₄ co-immobilization and microbial community response. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 91, 240-251.	2.9	27
60	Decontamination of arsenic(V)-contained liquid phase utilizing Fe ₃ O ₄ /bone char nanocomposite encapsulated in chitosan biopolymer. <i>Environmental Science and Pollution Research</i> , 2017, 24, 15157-15166.	2.7	26
61	Enhancement of the Bioremediation of Pyrene-Contaminated Soils Using a Hematite Nanoparticle-based Modified Fenton Oxidation in a Sequenced Approach. <i>Soil and Sediment Contamination</i> , 2017, 26, 141-156.	1.1	25
62	Photocatalytic degradation of humic substances in the presence of ZnO nanoparticles immobilized on glass plates under ultraviolet irradiation. <i>Separation Science and Technology</i> , 2016, 51, 2484-2489.	1.3	23
63	Zoning of heavy metal concentrations including Cd, Pb and As in agricultural soils of Aghili plain, Khuzestan province, Iran. <i>Data in Brief</i> , 2017, 14, 20-27.	0.5	23
64	Sequencing treatment of landfill leachate using ammonia stripping, Fenton oxidation and biological treatment. <i>Waste Management and Research</i> , 2012, 30, 883-887.	2.2	19
65	Performance of wastewater sludge modified with zinc oxide nanoparticles in the removal of methylene blue from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 1684-1692.	1.0	19
66	Kinetic, isotherm, and thermodynamic studies for removal of direct red 12b using nanostructured biosilica incorporated into calcium alginate matrix. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 1435-1443.	1.3	18
67	Evaluation of biological landfill leachate treatment incorporating struvite precipitation and powdered activated carbon addition. <i>Waste Management and Research</i> , 2010, 28, 759-766.	2.2	17
68	Optimized adsorption of 4-chlorophenol onto activated carbon derived from milk vetch utilizing response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 14213-14226.	1.0	16
69	Desulfurization of raw naphtha cuts using hybrid systems based on acoustic cavitation and advanced oxidation processes (AOPs). <i>Chemical Engineering Journal</i> , 2022, 439, 135354.	6.6	16
70	The application of a natural chitosan/bone char composite in adsorbing textile dyes from water. <i>Chemical Engineering Communications</i> , 2017, 204, 1082-1093.	1.5	15
71	A Novel Combination of Surfactant Addition and Persulfate-assisted Electrokinetic Oxidation for Remediation of Pyrene-Contaminated Soil. <i>Chemical and Biochemical Engineering Quarterly</i> , 2018, 32, 55-69.	0.5	15
72	Electrocoagulation of textile wastewater in the presence of electro-synthesized magnetite nanoparticles: simultaneous peroxi- and ultrasonic-electrocoagulation. <i>Separation Science and Technology</i> , 2020, 55, 945-954.	1.3	14

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73	Application of Nanocrystalline Iranian Diatomite in Immobilized Form for Removal of a Textile Dye. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 723-732.	1.3	13
74	Hybrid of ZnFe layered double hydroxide/nano-scale carbon for activation of peroxymonosulfate to decompose ibuprofen: Thermodynamic and reaction pathways investigation. <i>Environmental Technology and Innovation</i> , 2021, 24, 101951.	3.0	13
75	Hybrid metal and non-metal activation of Oxone by magnetite nanostructures co-immobilized with nano-carbon black to degrade tetracycline: Fenton and electrochemical enhancement with bio-assay. <i>Separation and Purification Technology</i> , 2021, 274, 119055.	3.9	12
76	Organic matter removal under high loads in a fixed-bed sequencing batch reactor with peach pit as carrier. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 681-687.	1.3	11
77	Evaluation of the Marine Algae <i>Gracilaria salicornia</i> and <i>Sargassum</i> sp. For the Biosorption of Cr (VI) from Aqueous Solutions. <i>Journal of Applied Sciences</i> , 2008, 8, 2163-2167.	0.1	10
78	Photocatalysis of formaldehyde in the aqueous phase over ZnO/diatomite nanocomposite. <i>Turkish Journal of Chemistry</i> , 2016, 40, 402-411.	0.5	9
79	Surfactant-enhanced Bioremediation of n-Hexadecane-contaminated Soil Using Halo-tolerant Bacteria <i>Paenibacillus glucanolyticus</i> sp. Strain T7-AHV Isolated from Marine Environment. <i>Chemical and Biochemical Engineering Quarterly</i> , 2019, 33, 111-123.	0.5	9
80	Biodegradation of high saline petrochemical wastewater by novel isolated halotolerant bacterial strains using integrated powder activated carbon/activated sludge bioreactor. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13088.	1.3	9
81	Treatment of a saline petrochemical wastewater containing recalcitrant organics using electro-Fenton process: persulfate and ultrasonic intensification. , 0, 169, 241-250.		9
82	Biogenic integrated ZnO/Ag nanocomposite: Surface analysis and in vivo practices for the management of type 1 diabetes complications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110878.	2.5	8
83	Investigation of Cadmium (II) Ions Biosorption onto Pretreated Dried Activated Sludge. <i>American Journal of Environmental Sciences</i> , 2009, 5, 41-46.	0.3	8
84	Degradation of tetracycline antibiotic utilizing light driven-activated oxone in the presence of g-C ₃ N ₄ /ZnFe LDH binary heterojunction nanocomposite. <i>Chemosphere</i> , 2022, 303, 135201.	4.2	8
85	Visible light photocatalysis of a textile dye over ZnO nanostructures covered on natural diatomite. <i>Turkish Journal of Chemistry</i> , 2016, 40, 454-466.	0.5	6
86	Preparation of Chitosan/Bone Char/Fe ₃ O ₄ Nanocomposite for Adsorption of Hexavalent Chromium in Aquatic Environments. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 5799-5808.	1.7	5
87	Effectiveness of UV/SO ₃ 2 ⁻ advanced reduction process for degradation and mineralization of trichlorfon pesticide in water: identification of intermediates and toxicity assessment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 20409-20420.	2.7	5
88	Sonocatalytic degradation of fluoroquinolone compounds of levofloxacin using titanium and zirconium oxides nanostructures supported on paper sludge/wheat husk-derived biochar. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 114, 84-95.	2.9	4
89	Performance evaluation of advanced Fe ⁰ /Fe ⁺² /Fe ⁺³ /H ₂ O ₂ process in the reduction of nitrate and organic matter from aqueous solution. <i>Desalination and Water Treatment</i> , 2014, 52, 6240-6248.	1.0	3
90	Synthesis of immobilised Ni-doped TiO ₂ nanoparticles through hydrothermal route and their efficiency evaluation in photodegradation of formaldehyde. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 1987-1999.	1.8	2

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91	Treatment of aquatic medium containing common and emerging contaminants using an aero-electrochemical process based on graphite cathode and three metal oxides alloy as anode: Central composite design and photo/sono-enhancement. <i>Chemosphere</i> , 2022, 297, 134129.	4.2	2
92	Corrigendum to Photocatalytic decolorization of methylene blue using immobilized ZnO nanoparticles prepared by solution combustion method [<i>Desalination and Water Treatment</i> , Volume 44 (2012) 174â€“179]. <i>Desalination and Water Treatment</i> , 2012, 47, 353-353.	1.0	1
93	Ultrasonically Facilitated Electrochemical Degradation of Acetaminophen Using Nanocomposite Porous Cathode and Pt Anode. <i>Chemical and Biochemical Engineering Quarterly</i> , 2019, 33, 35-42.	0.5	1
94	Cavitation-Based Processes for Water and Wastewater Treatment. <i>Handbook of Environmental Chemistry</i> , 2022, , 331-377.	0.2	1
95	A Novel Integration of CWPO Process with Fe ₃ O ₄ @C and Sonication for Oxidative Degradation of 4-Chlorophenol. <i>Chemical and Biochemical Engineering Quarterly</i> , 2021, , .	0.5	0