

Behrouz Vahid

List of Publications by Year in descending order

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58
papers

1,809
citations

186209

28
h-index

289141

40
g-index

59
all docs

59
docs citations

59
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous sono-Fenton-like process using nanostructured pyrite prepared by Ar glow discharge plasma for treatment of a textile dye. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 213-225.	3.8	87
2	Effect of operational parameters on degradation of Malachite Green by ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 1009-1014.	3.8	78
3	Heterogeneous sono-Fenton process using pyrite nanorods prepared by non-thermal plasma for degradation of an anthraquinone dye. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 357-370.	3.8	72
4	Heterogeneous sono-Fenton-like process using martite nanocatalyst prepared by high energy planetary ball milling for treatment of a textile dye. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 389-399.	3.8	69
5	Increasing photoactivity of titanium dioxide immobilized on glass plate with optimization of heat attachment method parameters. <i>Journal of Hazardous Materials</i> , 2008, 160, 508-513.	6.5	67
6	Iron rich laterite soil with mesoporous structure for heterogeneous Fenton-like degradation of an azo dye under visible light. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 26, 129-135.	2.9	66
7	Kinetic modeling of photoassisted-electrochemical process for degradation of an azo dye using boron-doped diamond anode and cathode with carbon nanotubes. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1890-1894.	2.9	61
8	Sonocatalytic degradation of Acid Blue 92 using sonochemically prepared samarium doped zinc oxide nanostructures. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 27-38.	3.8	57
9	Photoassisted electrochemical recirculation system with boron-doped diamond anode and carbon nanotubes containing cathode for degradation of a model azo dye. <i>Electrochimica Acta</i> , 2013, 88, 614-620.	2.6	54
10	Photoassisted electrochemical degradation of an azo dye using Ti/RuO ₂ anode and carbon nanotubes containing gas-diffusion cathode. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 930-936.	2.7	53
11	Evaluation of electrical energy per order (EEO) with kinetic modeling on the removal of Malachite Green by US/UV/H ₂ O ₂ process. <i>Desalination</i> , 2009, 249, 99-103.	4.0	52
12	Surface imprinted CoZn-bimetallic MOFs as selective colorimetric probe: Application for detection of dimethoate. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128768.	4.0	51
13	Preparation of zeolite nanorods by corona discharge plasma for degradation of phenazopyridine by heterogeneous sono-Fenton-like process. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 37-46.	3.8	50
14	Synthesis of N-Doped Magnetic WO ₃ @Mesoporous Carbon Using a Diatom Template and Plasma Modification: Visible-Light-Driven Photocatalytic Activities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13072-13086.	4.0	43
15	Production of nanocatalyst from natural magnetite by glow discharge plasma for enhanced catalytic ozonation of an oxazine dye in aqueous solution. <i>Journal of Molecular Catalysis A</i> , 2015, 404-405, 218-226.	4.8	42
16	Heterogeneous sonocatalytic degradation of anazolene sodium by synthesized dysprosium doped CdSe nanostructures. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 361-372.	3.8	42
17	Ultrasonic-assisted degradation of a triarylmethane dye using combined peroxydisulfate and MOF-2 catalyst: Synergistic effect and role of oxidative species. <i>Journal of Molecular Liquids</i> , 2020, 297, 111838.	2.3	41
18	Adsorption of C.I. Acid Red 97 dye from aqueous solution onto walnut shell: kinetics, thermodynamics parameters, isotherms. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1401-1408.	1.8	39

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19	Treatment of a dye solution using photoelectro-Fenton process on the cathode containing carbon nanotubes under recirculation mode: Investigation of operational parameters and artificial neural network modeling. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 557-563.	1.3	38
20	Sonochemical synthesis of holmium doped zinc oxide nanoparticles: Characterization, sonocatalysis of reactive orange 29 and kinetic study. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 35, 167-176.	2.9	37
21	Combination of photocatalytic and photoelectro-Fenton/citrate processes for dye degradation using immobilized N-doped TiO ₂ nanoparticles and a cathode with carbon nanotubes: Central composite design optimization. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 73, 103-110.	1.8	34
22	Catalytic performance of hematite nanostructures prepared by N ₂ glow discharge plasma in heterogeneous Fenton-like process for acid red 17 degradation. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 50, 86-95.	2.9	33
23	One-step preparation of nanostructured martite catalyst and graphite electrode by glow discharge plasma for heterogeneous electro-Fenton like process. <i>Journal of Environmental Management</i> , 2017, 199, 31-45.	3.8	33
24	Kinetic modeling of a triarylmethane dye decolorization by photoelectro-Fenton process in a recirculating system: Nonlinear regression analysis. <i>Chemical Engineering Research and Design</i> , 2014, 92, 362-367.	2.7	32
25	Mg and La Co-doped ZnO Nanoparticles Prepared by Sol-gel Method: Synthesis, Characterization and Photocatalytic Activity. <i>Periodica Polytechnica: Chemical Engineering</i> , 2019, 64, 61-74.	0.5	32
26	Mesoporous MIP-capped luminescent MOF as specific and sensitive analytical probe: application for chlorpyrifos. <i>Mikrochimica Acta</i> , 2020, 187, 673.	2.5	31
27	Development of an empirical kinetic model for sonocatalytic process using neodymium doped zinc oxide nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 146-155.	3.8	30
28	Preparation of a Green Photocatalyst by Immobilization of Synthesized ZnO Nanosheets on Scallop Shell for Degradation of an Azo Dye. <i>Current Nanoscience</i> , 2014, 10, 684-694.	0.7	29
29	Kinetic Modeling of Photocatalytic Degradation of an Azo Dye Using Nano-TiO ₂ /Polyester. <i>Environmental Engineering Science</i> , 2012, 29, 957-963.	0.8	28
30	Electrochemical and photo-assisted electrochemical treatment of the pesticide imidacloprid in aqueous solution by the Fenton process: effect of operational parameters. <i>Research on Chemical Intermediates</i> , 2016, 42, 855-868.	1.3	27
31	N-doped graphitic carbon as a nanoporous MOF-derived nanoarchitecture for the efficient sonocatalytic degradation process. <i>Separation and Purification Technology</i> , 2021, 256, 117811.	3.9	27
32	Kinetic modeling of sonocatalytic degradation of reactive orange 29 in the presence of lanthanide-doped ZnO nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 98-106.	3.8	26
33	CdSe quantum dots-sensitized chemiluminescence system and quenching effect of gold nanoclusters for cyanide detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 322-329.	2.0	26
34	Synthesis, Characterization and Immobilization of ZnO Nanosheets on Scallop Shell for Photocatalytic Degradation of an Insecticide. <i>Science of Advanced Materials</i> , 2015, 7, 806-814.	0.1	25
35	Integration of Polydopamine and Fe ₃ O ₄ Nanoparticles with Graphene Oxide to Fabricate an Efficient Recoverable Catalyst for the Degradation of Sulfadiazine. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 183-193.	1.8	24
36	Specific Fluorescence Probe for Direct Recognition of Dimethoate Using Molecularly Imprinting Polymer on ZnO Quantum Dots. <i>Journal of Fluorescence</i> , 2017, 27, 1339-1347.	1.3	23

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37	Computational study on the ability of functionalized graphene nanosheet for nitrate removal from water. <i>Chemical Physics</i> , 2018, 511, 20-26.	0.9	23
38	Design equation with mathematical kinetic modeling for photooxidative degradation of C.I. Acid Orange 7 in an annular continuous-flow photoreactor. <i>Journal of Hazardous Materials</i> , 2009, 165, 168-173.	6.5	18
39	Synthesis and characterization of gold nanoparticles using <i>Hypericum perforatum</i> and <i>Nettle</i> aqueous extracts: A comparison with turkevich method. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 508-517.	1.3	16
40	Self-cleaning acrylic water-based white paint modified with different types of TiO ₂ nanoparticles. <i>Pigment and Resin Technology</i> , 2016, 45, 24-29.	0.5	15
41	Fluidized-bed Fenton-like oxidation of a textile dye using natural magnetite. <i>Research on Chemical Intermediates</i> , 2016, 42, 8083-8095.	1.3	14
42	Inhibition of rhodamine B ferricyanide chemiluminescence by Au nanoparticles toward the sensitive determination of mercury (II) ions. <i>Microchemical Journal</i> , 2016, 126, 326-331.	2.3	14
43	Development of kinetic models for photoassisted electrochemical process using Ti/RuO ₂ anode and carbon nanotube-based O ₂ -diffusion cathode. <i>Electrochimica Acta</i> , 2016, 187, 300-311.	2.6	14
44	Sonocatalytic ozonation, with nano-TiO ₂ as catalyst, for degradation of 4-chloronitrobenzene in aqueous solution. <i>Research on Chemical Intermediates</i> , 2015, 41, 7029-7042.	1.3	13
45	Central composite design optimization of pilot plant fluidized-bed heterogeneous Fenton process for degradation of an azo dye. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2703-2712.	1.2	13
46	Treatment of an Azo Dye by Citrate Catalyzed Photoelectro-Fenton Process Under Visible Light using Carbon Nanotube-polytetrafluoroethylene Cathode. <i>Current Nanoscience</i> , 2013, 9, 387-393.	0.7	13
47	Photocatalytic degradation of an azo dye using immobilised TiO ₂ nanoparticles on polyester support: central composite design approach. <i>Micro and Nano Letters</i> , 2011, 6, 958.	0.6	12
48	Comparative study of sonocatalytic process using MOF-5 and peroxydisulfate by central composite design and artificial neural network. <i>Journal of Molecular Liquids</i> , 2020, 316, 113801.	2.3	12
49	An efficient chemiluminescence system based on mimic CuMOF/Co ₃ O ₄ nanoparticles composite for the measurement of glucose and cholesterol. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130690.	4.0	12
50	A comparative study of photocatalytic degradation and mineralisation of an azo dye using supported and suspended nano-TiO ₂ under UV and sunlight irradiations. <i>Pigment and Resin Technology</i> , 2016, 45, 119-125.	0.5	11
51	Scrutinizing the vital role of various ultraviolet irradiations on the comparative photocatalytic ozonation of albendazole and metronidazole: Integration and synergistic reactions mechanism. <i>Journal of Environmental Management</i> , 2020, 272, 111044.	3.8	10
52	Response surface optimization of heterogeneous Fenton-like degradation of sulfasalazine using Fe-impregnated clinoptilolite nanorods prepared by Ar-plasma. <i>Research on Chemical Intermediates</i> , 2017, 43, 3989-4005.	1.3	9
53	Optimization of a textile dye degradation in a recirculating fluidized-bed reactor using magnetite/TiO ₂ process. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 111044.	1.3	9
54	Degrading a mixture of three textile dyes using photo-assisted electrochemical process with BDD anode and O ₂ -diffusion cathode. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8543-8554.	2.7	7

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55	Production of martite nanoparticles with high energy planetary ball milling for heterogeneous Fenton-like process. RSC Advances, 2016, 6, 81219-81230.	1.7	6
56	Effect of dye chemical structure on the efficiency of photoassisted electrochemical degradation using a cathode containing carbon nanotubes and a Ti/RuO ₂ anode. Research on Chemical Intermediates, 2015, 41, 6073-6085.	1.3	5
57	Hydrogen production from co-gasification of asphaltene and plastic. Petroleum Science and Technology, 2019, 37, 1905-1909.	0.7	3
58	Development of an Empirical Kinetics Model for Sono-Degradation of Malachite Green: Evaluation of Electrical Energy Per Order. Jundishapur Journal of Health Sciences, 2016, 8, .	0.1	1