

Roshanak Rezaei Kalantary

List of Publications by Year in descending order

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102
papers

3,829
citations

94433

37
h-index

138484

58
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103
all docs

103
docs citations

103
times ranked

4243
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous removal of phenol and chromium reduction from the aqueous solution with photocatalytic process in the presence of ZnO-activated carbon fibre composite. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 1053-1067.	3.3	4
2	TiO ₂ -decorated magnetic biochar mediated heterogeneous photocatalytic degradation of tetracycline and evaluation of antibacterial activity. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8949-8959.	4.6	6
3	Monitoring of pesticides in surface water, pesticides removal efficiency in drinking water treatment plant and potential health risk to consumers using Monte Carlo simulation in Behbahan City, Iran. <i>Chemosphere</i> , 2022, 286, 131667.	8.2	28
4	Synthesis of new composite based on TiO ₂ immobilized in glass fibers for photo-catalytic degradation of chlorobenzene in aqueous solutions. <i>Environmental Research</i> , 2022, 204, 112018.	7.5	17
5	Cancer risk assessment of polycyclic aromatic hydrocarbons in the soil and sediments of Iran: a systematic review study. <i>Reviews on Environmental Health</i> , 2022, 37, 597-612.	2.4	5
6	Enhanced photocatalytic activity of Fe ₂ O ₃ @ZnO decorated CQD for inactivation of Escherichia coli under visible light irradiation. <i>Journal of Environmental Health Science & Engineering</i> , 2022, 20, 101-112.	3.0	4
7	Pt-based TiO ₂ photocatalytic systems: A systematic review. <i>Journal of Molecular Liquids</i> , 2022, 352, 118685.	4.9	26
8	Monitoring and eco-toxicity effect of paraben-based pollutants in sediments/seawater, north of the Persian Gulf. <i>Environmental Geochemistry and Health</i> , 2022, 44, 4499-4521.	3.4	7
9	Synthesis of new hybrid composite based on TiO ₂ for photo-catalytic degradation of sulfamethoxazole and pharmaceutical wastewater, optimization, performance, and reaction mechanism studies. <i>Environmental Science and Pollution Research</i> , 2022, 29, 56403-56418.	5.3	8
10	Characterization of polycyclic aromatic hydrocarbons associated with PM ₁₀ emitted from the largest composting facility in the Middle East. <i>Toxin Reviews</i> , 2021, 40, 1481-1495.	3.4	8
11	Preparation of a thin-film nanocomposite forward osmosis membrane for the removal of organic micro-pollutants from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3011-3024.	2.2	11
12	Activation of peroxymonosulfate into amoxicillin degradation using cobalt ferrite nanoparticles anchored on graphene (CoFe ₂ O ₄ @Gr). <i>Toxin Reviews</i> , 2021, 40, 215-224.	3.4	13
13	Learning and memory disorders related to hippocampal inflammation following exposure to air pollution. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 261-272.	3.0	19
14	Effect of COVID-19 pandemic on medical waste management: a case study. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 831-836.	3.0	66
15	Photo-catalytic degradation of bisphenol-a from aqueous solutions using GF/Fe-TiO ₂ -CQD hybrid composite. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 837-849.	3.0	12
16	Carwash wastewater treatment using the chemical processes. <i>Water Science and Technology</i> , 2021, 84, 16-26.	2.5	10
17	Co-implanting of TiO ₂ and liquid-phase-delaminated g-C ₃ N ₄ on multi-functional graphene nanobridges for enhancing photocatalytic degradation of acetaminophen. <i>Chemical Engineering Journal</i> , 2021, 414, 128618.	12.7	81
18	Application of ultrasound irradiation in landfill leachate treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 47741-47751.	5.3	16

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19	Characteristics of gaseous and particulate air pollutants at four different urban hotspots in Tehran, Iran. <i>Sustainable Cities and Society</i> , 2021, 70, 102907.	10.4	4
20	Environmental impact assessment of a steel industry development plan using combined method involving Leopold matrix and RIAM. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 1997-2011.	3.0	2
21	Synthesis and application of g-C ₃ N ₄ /Fe ₃ O ₄ /Ag nanocomposite for the efficient photocatalytic inactivation of <i>Escherichia coli</i> and <i>Bacillus subtilis</i> bacteria in aqueous solutions. <i>AMB Express</i> , 2021, 11, 161.	3.0	10
22	ZnO nanoparticles photocatalytic activity toward atmospheric toluene under simulated sunlight. <i>Research on Chemical Intermediates</i> , 2020, 46, 119-131.	2.7	9
23	A novel synthetic thin-film nanocomposite forward osmosis membrane modified by graphene oxide and polyethylene glycol for heavy metals removal from aqueous solutions. <i>Reactive and Functional Polymers</i> , 2020, 146, 104397.	4.1	69
24	Sono-photocatalytic degradation of tetracycline and pharmaceutical wastewater using WO ₃ /CNT heterojunction nanocomposite under US and visible light irradiations: A novel hybrid system. <i>Journal of Hazardous Materials</i> , 2020, 390, 122050.	12.4	206
25	Efficient visible light-induced photocatalytic removal of paraquat using N-doped TiO ₂ @SiO ₂ @Fe ₃ O ₄ nanocomposite. <i>Journal of Molecular Liquids</i> , 2020, 299, 112167.	4.9	48
26	Synthesis and evaluation of the performance of g-C ₃ N ₄ /Fe ₃ O ₄ /Ag photocatalyst for the efficient removal of diazinon: Kinetic studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112279.	3.9	57
27	Study of littered wastes in different urban land-uses: An 6 environmental status assessment. <i>Journal of Environmental Health Science & Engineering</i> , 2020, 18, 915-924.	3.0	23
28	Enhanced photocatalytic degradation of metronidazole by TiO ₂ decorated on magnetic reduced graphene oxide: Characterization, optimization and reaction mechanism studies. <i>Journal of Molecular Liquids</i> , 2020, 314, 113608.	4.9	45
29	Association between exposure to polycyclic aromatic hydrocarbons and attention deficit hyperactivity disorder in children: a systematic review and meta-analysis. <i>Environmental Science and Pollution Research</i> , 2020, 27, 11531-11540.	5.3	17
30	Degradation of dimethyl phthalate using persulfate activated by UV and ferrous ions: optimizing operational parameters mechanism and pathway. <i>Journal of Environmental Health Science & Engineering</i> , 2019, 17, 685-700.	3.0	78
31	Photocatalytic Degradation of Metronidazole Using Bi ₂ O ₃ /TiO ₂ Composites Under Visible Light Irradiation: Degradation Product, and Mechanisms. <i>ChemistrySelect</i> , 2019, 4, 10288-10295.	1.5	12
32	Ozone-assisted photocatalytic degradation of gaseous toluene from waste air stream using silica-functionalized graphene oxide/ZnO coated on fiberglass: performance, intermediates, and mechanistic pathways. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 1181-1188.	3.3	13
33	A new nano-photocatalyst based on Pt and Bi co-doped TiO ₂ for efficient visible-light photo degradation of amoxicillin. <i>New Journal of Chemistry</i> , 2019, 43, 1562-1568.	2.8	45
34	The comparison of ZnO/polyaniline nanocomposite under UV and visible radiations for decomposition of metronidazole: Degradation rate, mechanism and mineralization. <i>Chemical Engineering Research and Design</i> , 2019, 128, 65-76.	5.6	62
35	Desorption kinetics and isotherms of phenanthrene from contaminated soil. <i>Journal of Environmental Health Science & Engineering</i> , 2019, 17, 171-181.	3.0	11
36	Enhanced sono-photocatalysis of tetracycline antibiotic using TiO ₂ decorated on magnetic activated carbon (MAC@T) coupled with US and UV: A new hybrid system. <i>Ultrasonics Sonochemistry</i> , 2019, 55, 75-85.	8.2	167

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37	Visible-light-driven photocatalytic degradation of Metalaxyl by reduced graphene oxide/Fe ₃ O ₄ /ZnO ternary nanohybrid: Influential factors, mechanism and toxicity bioassay. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 375, 280-292.	3.9	72
38	Enhanced electro kinetic- pseudo-Fenton degradation of pyrene-contaminated soil using Fe ₃ O ₄ magnetic nanoparticles: A data set. <i>Data in Brief</i> , 2019, 24, 103483.	1.0	8
39	Synthesis and evaluation of the antibacterial effect of silica-coated modified magnetic poly-(amidoamine) G5 nanoparticles on <i>E. coli</i> and <i>S. aureus</i> . <i>Journal of Molecular Liquids</i> , 2019, 276, 93-104.	4.9	16
40	On the nature and health impacts of BTEX in a populated middle eastern city: Tehran, Iran. <i>Atmospheric Pollution Research</i> , 2019, 10, 921-930.	3.8	42
41	Enhanced photocatalytic inactivation of <i>E. coli</i> by natural pyrite in presence of citrate and EDTA as effective chelating agents: Experimental evaluation and kinetic and ANN models. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102906.	6.7	24
42	Photocatalytic oxidation of benzene by ZnO coated on glass plates under simulated sunlight. <i>Chemical Papers</i> , 2019, 73, 635-644.	2.2	19
43	Exposure to nanoscale diesel exhaust particles: Oxidative stress, neuroinflammation, anxiety and depression on adult male mice. <i>Ecotoxicology and Environmental Safety</i> , 2019, 168, 338-347.	6.0	70
44	Ozone-assisted photocatalytic degradation of benzene using nano-zinc oxide impregnated granular activated carbon (ZnO-GAC) in a continuous fluidized bed reactor. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13082.	2.3	4
45	Photocatalytic degradation of malathion using Zn ²⁺ -doped TiO ₂ nanoparticles: statistical analysis and optimization of operating parameters. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	55
46	The effect of traffic on levels, distribution and chemical partitioning of harmful metals in the street dust and surface soil from urban areas of Tehran, Iran. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	34
47	Fine particulate matter (PM _{2.5}) in a compost facility: heavy metal contaminations and health risk assessment, Tehran, Iran. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15715-15725.	5.3	20
48	Synthesis of silica-functionalized graphene oxide/ZnO coated on fiberglass and its application in photocatalytic removal of gaseous benzene. <i>Chemical Engineering Research and Design</i> , 2018, 116, 377-387.	5.6	45
49	Optimization of Influencing Parameters on Phenanthrene Removal Efficiency in Soil Washing Process by Using Response Surface Methodology. <i>Soil and Sediment Contamination</i> , 2018, 27, 46-59.	1.9	9
50	Data on modeling of UV/Na ₂ S ₂ O ₈ /FeS ₂ process in amoxicillin removal using Box-Behnken methodology. <i>Data in Brief</i> , 2018, 19, 1810-1815.	1.0	11
51	Heterogeneous sonocatalytic degradation of amoxicillin using ZnO@Fe ₃ O ₄ magnetic nanocomposite: Influential factors, reusability and mechanisms. <i>Journal of Molecular Liquids</i> , 2018, 264, 98-109.	4.9	109
52	Photocatalytic degradation data of benzene and toluene by ZnO coated on glass plates under simulated sunlight. <i>Data in Brief</i> , 2018, 20, 490-495.	1.0	8
53	The association of hospital emergency admissions due to respiratory-cardiovascular diseases and acute myocardial infarction with air pollution in Tehran during 2005-2014. <i>Medical Journal of the Islamic Republic of Iran</i> , 2018, 32, 440-445.	0.9	6
54	A systematic review on the efficiency of cerium-impregnated activated carbons for the removal of gas-phase, elemental mercury from flue gas. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12092-12103.	5.3	18

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55	Contaminants of emerging concern: a review of new approach in AOP technologies. Environmental Monitoring and Assessment, 2017, 189, 414.	2.7	194
56	Visible light photocatalytic inactivation of Escherichia coli by natural pyrite assisted by oxalate at neutral pH. Journal of Molecular Liquids, 2017, 248, 880-889.	4.9	27
57	Fenton-like catalytic oxidation of tetracycline by AC@Fe ₃ O ₄ as a heterogeneous persulfate activator: Adsorption and degradation studies. Journal of Industrial and Engineering Chemistry, 2017, 45, 323-333.	5.8	217
58	Removing phenanthrene by polyethersulfone/graphene oxide-titanium dioxide membrane. Materials Express, 2017, 7, 457-468.	0.5	1
59	Efficiency of Polymeric Membrane Graphene Oxide-TiO ₂ for Removal of Azo Dye. Journal of Chemistry, 2017, 2017, 1-13.	1.9	33
60	Simultaneous adsorption of lead and aniline onto magnetically recoverable carbon: optimization, modeling and mechanism. Journal of Chemical Technology and Biotechnology, 2016, 91, 3000-3010.	3.2	41
61	Reuse of polycyclic aromatic hydrocarbons (PAHs) contaminated soil washing effluent by bioaugmentation/biostimulation process. Separation and Purification Technology, 2016, 168, 248-256.	7.9	60
62	Silica-coated magnetite nanoparticles core-shell spheres (Fe ₃ O ₄ @SiO ₂) for natural organic matter removal. Journal of Environmental Health Science & Engineering, 2016, 14, 21.	3.0	64
63	Biosurfactant production and its effects on solubilization activity of phenanthrene: a longitudinal study. Water Science and Technology, 2016, 74, 580-585.	2.5	0
64	Phenanthrene removal from liquid medium with emphasis on production of biosurfactant. Water Science and Technology, 2016, 74, 2879-2888.	2.5	4
65	Bisphenol A removal from aqueous solutions using novel UV/persulfate/H ₂ O ₂ /Cu system: optimization and modelling with central composite design and response surface methodology. Journal of Environmental Health Science & Engineering, 2016, 14, 19.	3.0	29
66	The survey of Malathion removal using magnetic graphene oxide nanocomposite as a novel adsorbent: thermodynamics, isotherms, and kinetic study. Desalination and Water Treatment, 2016, 57, 28460-28473.	1.0	51
67	Application of mesoporous magnetic carbon composite for reactive dyes removal: Process optimization using response surface methodology. Korean Journal of Chemical Engineering, 2016, 33, 2878-2890.	2.7	54
68	Hexavalent chromium adsorption from aqueous solutions using nanoporous graphene/Fe ₃ O ₄ (NPG/Fe ₃ O ₄ : modeling and optimization). Desalination and Water Treatment, 2016, 57, 28284-28293.	1.0	5
69	Optimization and evaluation of reactive dye adsorption on magnetic composite of activated carbon and iron oxide. Desalination and Water Treatment, 2016, 57, 6411-6422.	1.0	54
70	Ozonation optimization and modeling for treating diesel-contaminated water. Marine Pollution Bulletin, 2016, 104, 240-245.	5.0	13
71	Nitrate adsorption by synthetic activated carbon magnetic nanoparticles: kinetics, isotherms and thermodynamic studies. Desalination and Water Treatment, 2016, 57, 16445-16455.	1.0	57
72	PHOTOCATALYTIC DEGRADATION OF ANILINE IN AQUEOUS SOLUTION USING ZnO NANOPARTICLES. Environmental Engineering and Management Journal, 2016, 15, 53-60.	0.6	3

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73	Enhanced removal of nitrate from water using nZVI@MWCNTs composite: synthesis, kinetics and mechanism of reduction. <i>Water Science and Technology</i> , 2015, 72, 1988-1999.	2.5	51
74	Rapid and efficient magnetically removal of heavy metals by magnetite-activated carbon composite: a statistical design approach. <i>Journal of Porous Materials</i> , 2015, 22, 1083-1096.	2.6	54
75	Fenton regeneration of humic acid-spent carbon nanotubes. <i>Desalination and Water Treatment</i> , 2015, 54, 2490-2495.	1.0	21
76	Experimental design approach to the optimization of PAHs bioremediation from artificially contaminated soil: application of variables screening development. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 22.	3.0	28
77	Powder activated carbon/Fe ₃ O ₄ hybrid composite as a highly efficient heterogeneous catalyst for Fenton oxidation of tetracycline: degradation mechanism and kinetic. <i>RSC Advances</i> , 2015, 5, 84718-84728.	3.6	61
78	Iron-silver oxide nanoadsorbent synthesized by co-precipitation process for fluoride removal from aqueous solution and its adsorption mechanism. <i>RSC Advances</i> , 2015, 5, 87377-87391.	3.6	61
79	Development of a novel magnetite-chitosan composite for the removal of fluoride from drinking water: adsorption modeling and optimization. <i>RSC Advances</i> , 2015, 5, 73279-73289.	3.6	103
80	Photocatalytic degradation and mineralization of diazinon in aqueous solution using nano-TiO ₂ (Degussa, P25): kinetic and statistical analysis. <i>Desalination and Water Treatment</i> , 2015, 55, 555-563.	1.0	46
81	Influence of bioaugmentation on biodegradation of phenanthrene-contaminated soil by earthworm in lab scale. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 150.	3.0	8
82	Effectiveness of biostimulation through nutrient content on the bioremediation of phenanthrene contaminated soil. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 143.	3.0	61
83	Performance evaluation of enhanced SBR in simultaneous removal of nitrogen and phosphorous. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 134.	3.0	17
84	Effect of bioaugmentation to enhance phytoremediation for removal of phenanthrene and pyrene from soil with Sorghum and Onobrychis sativa. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 24.	3.0	26
85	Magnetic Fe ₃ O ₄ @C nanoparticles as adsorbents for removal of amoxicillin from aqueous solution. <i>Water Science and Technology</i> , 2014, 69, 147-155.	2.5	84
86	Enhanced chromium (VI) removal using activated carbon modified by zero valent iron and silver bimetallic nanoparticles. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 115.	3.0	116
87	Separate and simultaneous removal of phenol, chromium, and cyanide from aqueous solution by coagulation/precipitation: Mechanisms and theory. <i>Chemical Engineering Journal</i> , 2014, 253, 251-257.	12.7	136
88	Continuous adsorption of natural organic matters in a column packed with carbon nanotubes. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 14.	3.0	19
89	Evaluation of Fenton oxidation process coupled with biological treatment for the removal of reactive black 5 from aqueous solution. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 13.	3.0	13
90	Biodegradation of 2,4-dinitrophenol with laccase immobilized on nano-porous silica beads. <i>Iranian Journal of Environmental Health Science & Engineering</i> , 2013, 10, 25.	1.8	57

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91	The study of Fenton oxidation process efficiency in the simultaneous removal of phenol, cyanide, and chromium (VI) from synthetic wastewater. <i>Desalination and Water Treatment</i> , 2013, 51, 5761-5767.	1.0	16
92	Treatment of hexavalent chromium by using a combined Fenton and chemical precipitation process. <i>Journal of Water Reuse and Desalination</i> , 2013, 3, 373-380.	2.3	6
93	Modification of PAHs Biodegradation with Humic Compounds. <i>Soil and Sediment Contamination</i> , 2013, 22, 185-198.	1.9	25
94	Sequencing treatment of landfill leachate using ammonia stripping, Fenton oxidation and biological treatment. <i>Waste Management and Research</i> , 2012, 30, 883-887.	3.9	19
95	Performance evaluation of reverse osmosis technology for selected antibiotics removal from synthetic pharmaceutical wastewater. <i>Iranian Journal of Environmental Health Science & Engineering</i> , 2012, 9, 19.	1.8	39
96	Evaluation of biological landfill leachate treatment incorporating struvite precipitation and powdered activated carbon addition. <i>Waste Management and Research</i> , 2010, 28, 759-766.	3.9	17
97	Remediation of phenanthrene & cadmium co-contaminated soil by using a combined process including soil washing and electrocoagulation. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-19.	3.3	5
98	Application of dispersive liquid-liquid microextraction as a simple assisted clean-up and preconcentration technique for GC/MS determination of selected PAHs extracted from sewage sludge by Soxhlet and ultrasound assisted extraction method. , 0, 66, 176-183.		3
99	A comparative study of nitrate removal from aqueous solutions using zeolite, nZVI-zeolite, nZVI and iron powder adsorbents. , 0, 74, 278-288.		9
100	Synthesis and characterization of magnetic nano-porous graphene functionalized with carboxyl for hexavalent chromium adsorption in aqueous solution. , 0, 82, 241-251.		2
101	Study of the performances of low-cost adsorbents extracted from <i>Rosa damascena</i> in aqueous solutions decolorization. , 0, 80, 357-369.		27
102	Photo-catalytic degradation of sulfamethoxazole from aqueous solutions using Cu-TiO ₂ / CQDs hybrid composite, optimisation, performance and reaction mechanism studies. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-18.	3.3	2