

# Abbas Rezaee

## List of Publications by Year in descending order

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76  
papers

1,784  
citations

236925

25  
h-index

315739

38  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1966  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.8	110
2	Perspectives on microbial community in anaerobic digestion with emphasis on environmental parameters: A systematic review. <i>Chemosphere</i> , 2021, 270, 128618.	8.2	90
3	Electrocatalytic nitrate reduction using FeO/Fe <sub>3</sub> O <sub>4</sub> nanoparticles immobilized on nickel foam: Selectivity and energy consumption studies. <i>Journal of Cleaner Production</i> , 2020, 242, 118569.	9.3	86
4	Surface modification of bone char for removal of formaldehyde from air. <i>Applied Surface Science</i> , 2013, 286, 235-239.	6.1	58
5	Photoelectrochemical treatment of ammonium using seawater as a natural supporting electrolyte. <i>Chemistry and Ecology</i> , 2013, 29, 72-85.	1.6	55
6	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
7	Pyrene removal from contaminated soils by modified Fenton oxidation using iron nano particles. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2013, 11, 17.	3.0	49
8	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 &amp; Engineering Chemistry Research</i> , 2013, 52, 14133-14142.	3.7	48
9	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.	2.7	47
10	High photocatalytic decomposition of the air pollutant formaldehyde using nano-ZnO on bone char. <i>Environmental Chemistry Letters</i> , 2014, 12, 353-357.	16.2	46
11	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.	2.5	42
12	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
13	Application of Biosurfactants Produced by <i>Pseudomonas aeruginosa</i> SP4 for Bioremediation of Soils Contaminated by Pyrene. <i>Soil and Sediment Contamination</i> , 2013, 22, 890-911.	1.9	42
14	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.	1.7	42
15	Electro-catalytic ozonation for improving the biodegradability of mature landfill leachate. <i>Journal of Environmental Management</i> , 2020, 254, 109811.	7.8	42
16	MICROBIAL CELLULOSE AS SUPPORT MATERIAL FOR THE IMMOBILIZATION OF DENITRIFYING BACTERIA. <i>Environmental Engineering and Management Journal</i> , 2008, 7, 589-594.	0.6	42
17	Adsorption of Endotoxin from Aqueous Solution Using Bone Char. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 82, 732-737.	2.7	38
18	Effect of alternating electrical current on denitrifying bacteria in a microbial electrochemical system: biofilm viability and ATP assessment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33591-33598.	5.3	38

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19	Utilisation of immobilised activated sludge for the biosorption of chromium (VI). Canadian Journal of Chemical Engineering, 2012, 90, 1539-1546.	1.7	37
20	Improving the performance of Cr (VI) removal by electrochemical process using microbial cellulose/magnetic nanoparticles electrode. Journal of Cleaner Production, 2020, 277, 123195.	9.3	34
21	Biostimulation of heterotrophic-autotrophic denitrification in a microbial electrochemical system using alternating electrical current. Journal of Cleaner Production, 2018, 200, 1100-1110.	9.3	33
22	TiO <sub>2</sub> nanofibre assisted photocatalytic degradation of Reactive Blue 19 dye from aqueous solution. Environmental Technology (United Kingdom), 2009, 30, 233-239.	2.2	29
23	Simultaneous nitrification and denitrification using a polypyrrole/microbial cellulose electrode in a membraneless bio-electrochemical system. RSC Advances, 2015, 5, 72699-72708.	3.6	28
24	Application of a compound containing silica for removing ammonium in aqueous media. Environmental Progress and Sustainable Energy, 2015, 34, 105-111.	2.3	28
25	A clean production process for edible oil removal from wastewater using an electroflotation with horizontal arrangement of mesh electrodes. Journal of Cleaner Production, 2018, 198, 71-79.	9.3	27
26	Biological denitrification by Pseudomonas stutzeri immobilized on microbial cellulose. World Journal of Microbiology and Biotechnology, 2008, 24, 2397-2402.	3.6	25
27	Nitrate removal from pharmaceutical wastewater using microbial electrochemical system supplied through low frequency-low voltage alternating electric current. Bioelectrochemistry, 2018, 120, 49-56.	4.6	24
28	Electrocatalytic ozonation process supplemented by EDTA-Fe complex for improving the mature landfill leachate treatment. Chemosphere, 2021, 263, 127858.	8.2	21
29	Bio-electrochemical reduction of nitrate utilizing MWCNT supported on carbon base electrodes: A comparison study. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2212-2216.	5.3	19
30	Electrochemical degradation of RB19 dye using low-frequency alternating current: effect of a square wave. RSC Advances, 2015, 5, 96918-96926.	3.6	19
31	Electrocatalytic oxidation of phenol from wastewater using Ti/SnO <sub>2</sub> @Sb <sub>2</sub> O <sub>4</sub> electrode: chemical reaction pathway study. Environmental Science and Pollution Research, 2016, 23, 19735-19743.	5.3	19
32	Microbial cellulose as a support for photocatalytic oxidation of toluene using TiO <sub>2</sub> nanoparticles. Journal of Applied Polymer Science, 2016, 133, .	2.6	19
33	Chromium (VI) removal using microbial cellulose/ nano-Fe <sub>3</sub> O <sub>4</sub> @polypyrrole: Isotherm, kinetic and thermodynamic studies. Materials Chemistry and Physics, 2022, 278, 125696.	4.0	18
34	Equilibrium and kinetic studies of chromium adsorption from wastewater by functionalized multi-wall carbon nanotubes. Reaction Kinetics, Mechanisms and Catalysis, 2014, 112, 371-382.	1.7	17
35	Conductive microbial cellulose as a novel biocathode for Cr (VI) bioreduction. Carbohydrate Polymers, 2017, 162, 56-61.	10.2	17
36	Enhanced biological nitrate removal by alternating electric current bioelectrical reactor: Selectivity and mechanism. Journal of Molecular Liquids, 2017, 246, 93-102.	4.9	17

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37	Metabolic activity and pathway study of aspirin biodegradation using a microbial electrochemical system supplied by an alternating current. <i>Chemosphere</i> , 2019, 232, 35-44.	8.2	17
38	Enhanced electrocatalytic denitrification using non-noble Ni-Fe electrode supplied by Fe <sub>3</sub> O <sub>4</sub> nanoparticle and humic acid. <i>Applied Surface Science</i> , 2021, 563, 150142.	6.1	17
39	Microbial electrochemical system for the phenol degradation using alternating current: Metabolic pathway study. <i>Bioelectrochemistry</i> , 2019, 130, 107230.	4.6	16
40	Effects of Low Frequency-Low Voltage Alternating Electric Current on Apoptosis Progression in Bioelectrical Reactor Biofilm. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 2.	4.1	16
41	Water disinfection by zinc oxide nanoparticle prepared with solution combustion method. <i>Desalination and Water Treatment</i> , 2015, 56, 2376-2381.	1.0	15
42	Bioelectrochemical denitrification using carbon felt/multiwall carbon nanotube. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1057-1062.	2.2	15
43	Kinetic modeling and determination role of sono/photo nanocatalyst-generated radical species on degradation of hydroquinone in aqueous solution. <i>Environmental Science and Pollution Research</i> , 2016, 23, 12185-12198.	5.3	15
44	Effect of micro-aerobic process on improvement of anaerobic digestion sewage sludge treatment: flow cytometry and ATP assessment. <i>RSC Advances</i> , 2020, 10, 35718-35728.	3.6	15
45	Simultaneous removal of nitrate and its intermediates by use of bipolar electrochemistry. <i>Research on Chemical Intermediates</i> , 2015, 41, 1365-1372.	2.7	14
46	Enhancement of lipase activity for the oily wastewater treatment by an electrostimulation process. <i>RSC Advances</i> , 2016, 6, 115290-115297.	3.6	14
47	Optimizing ammonia volatilization by air stripping from aquatic solutions using response surface methodology (RSM). <i>Desalination and Water Treatment</i> , 2016, 57, 11765-11772.	1.0	14
48	Ciprofloxacin removal from aqueous solutions using modified electrochemical Fenton processes with iron green catalysts. <i>Journal of Molecular Liquids</i> , 2021, 324, 114694.	4.9	13
49	NITRATE REMOVAL FROM AQUEOUS SOLUTION USING MGCL <sub>2</sub> IMPREGNATED ACTIVATED CARBON. <i>Environmental Engineering and Management Journal</i> , 2010, 9, 449-452.	0.6	13
50	Heterotrophic Biological Denitrification Using Microbial Cellulose as Carbon Source. <i>Journal of Polymers and the Environment</i> , 2011, 19, 283-287.	5.0	12
51	Equilibrium and kinetic studies of the adsorption of sodium dodecyl sulfate from aqueous solution using bone char. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013, 109, 433-446.	1.7	12
52	Bone char surface modification by nano-gold coating for elemental mercury vapor removal. <i>Applied Surface Science</i> , 2015, 342, 106-111.	6.1	12
53	Optimization of Cr(VI) removal by sulfate-reducing bacteria using response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 11096-11102.	1.0	12
54	Biological Nitrogen Removal in Moving Bed Biofilm Reactor Using Ibuprofen as Carbon Source. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	12

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55	Low frequency-low voltage alternating electric current-induced anoxic granulation in biofilm-electrode reactor: A study of granule properties. <i>Process Biochemistry</i> , 2017, 56, 154-162.	3.7	12
56	Organic matter removal under high loads in a fixed-film sequencing batch reactor with peach pit as carrier. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 681-687.	2.3	11
57	Minimization of hazardous sludge production using a bioelectrochemical system supplied by an alternating current electric field. <i>Bioelectrochemistry</i> , 2020, 132, 107446.	4.6	11
58	The influence of combined low-strength ultrasonics and micro-aerobic pretreatment process on methane generation and sludge digestion: Lipase enzyme, microbial activation, and energy yield. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105531.	8.2	11
59	Removal of aspirin from aqueous solution using electroactive bacteria induced by alternating current. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25327-25338.	5.3	8
60	Optimization of reaction parameters for the sonophotocatalytic degradation of hydroquinone. <i>Research on Chemical Intermediates</i> , 2017, 43, 1935-1956.	2.7	7
61	Optimization of Nitrate Reduction by Electrocoagulation Using Response Surface Methodology. <i>Health Scope</i> , 2014, 3, .	0.6	7
62	Adsorption Properties and Breakthrough Model of Formaldehyde on Bone Char. <i>International Journal of Environmental Science and Development</i> , 0, , 423-427.	0.6	7
63	Effective removal of hexavalent chromium using microbial cellulose/polyaniline cathode and nanosized FeS <sub>2</sub> in the form of an integrated electrochemical system. <i>Journal of Water Process Engineering</i> , 2021, 44, 102333.	5.6	7
64	Optimization of effective parameters in the biosorption of Cr(VI) using acid treated date palm fiber from aqueous solution. <i>Desalination and Water Treatment</i> , 2016, 57, 4994-5003.	1.0	5
65	Optimization of Remazol Brilliant Blue adsorption process from aqueous solutions using multi-walled carbon nanotube. <i>Desalination and Water Treatment</i> , 2016, 57, 13357-13365.	1.0	5
66	Effect of isoelectric point on cheese whey wastewater treatment using a microbial electrochemical system. <i>Bioelectrochemistry</i> , 2019, 130, 107200.	4.6	5
67	Off-Gas Treatment of Ammonia Using a Diffused Air Stripper: A Kinetic Study. <i>Health Scope</i> , 2016, 5, .	0.6	5
68	Phenol biodegradation in an aerobic fixed-film process using conductive bioelectrodes: Biokinetic and kinetic studies. , 0, 105, 126-131.		5
69	Dairy wastewater treatment using immobilized bacteria on calcium alginate in a microbial electrochemical system. <i>Journal of Water Process Engineering</i> , 2022, 46, 102609.	5.6	5
70	Effects of ethanol on the electrochemical removal of <i>Bacillus subtilis</i> spores from water. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2015, 13, 78.	3.0	4
71	Bioelectrochemical system for anaerobic oily wastewater treatment: Biokinetic & energy consumption studies. <i>Journal of Water Process Engineering</i> , 2021, 44, 102420.	5.6	4
72	Electrocatalytic disinfection of <i>E. coli</i> using Ni-Fe/Fe <sub>3</sub> O <sub>4</sub> nanocomposite cathode: Effect of Fe <sub>3</sub> O <sub>4</sub> nanoparticle, humic acid, and nitrate. <i>Separation and Purification Technology</i> , 2022, 294, 121140.	7.9	4

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73	MFC-driven H <sub>2</sub> S electro-oxidation based on Fe nanoparticles anchored on carbon aerogel-ZIF-8: a combined experimental and DFT study. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1421-1435.	5.5	3
74	Bio-electrical stimulation process on degradation of Phenanthrene from aqueous solution using a novel anode modified with carbon cloth: Operational performance, microbial activity and energy. <i>Ecotoxicology and Environmental Safety</i> , 2022, 239, 113654.	6.0	2
75	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) 174-179]. <i>Desalination and Water Treatment</i> , 2012, 47, 353-353.	1.0	1
76	Application of disc screen for wastepaper recycling: evaluation of influential parameters. <i>International Journal of Environmental Science and Technology</i> , 0, , 1.	3.5	0