Bo Jin

List of Publications by Year
in descending order

121 papers	11,136 citations	50170 46 h-index	30010 103 g-index
123 all docs	123 docs citations	123 times ranked	14821 citing authors

#	Article	IF	Citations
1	Recent developments in photocatalytic water treatment technology: A review. Water Research, 2010, 44, 2997-3027.	5.3	4,343
2	Kinetic study and equilibrium isotherm analysis of Congo Red adsorption by clay materials. Chemical Engineering Journal, 2009, 148, 354-364.	6.6	784
3	Adsorption characteristics, isotherm, kinetics, and diffusion of modified natural bentonite for removing diazo dye. Chemical Engineering Journal, 2012, 187, 79-88.	6.6	398
4	Charge State Manipulation of Cobalt Selenide Catalyst for Overall Seawater Electrolysis. Advanced Energy Materials, 2018, 8, 1801926.	10.2	264
5	Adsorption of congo red by three Australian kaolins. Applied Clay Science, 2009, 43, 465-472.	2.6	243
6	Production of lactic acid from renewable materials by Rhizopus fungi. Biochemical Engineering Journal, 2007, 35, 251-263.	1.8	208
7	Nanobiocatalyst advancements and bioprocessing applications. Journal of the Royal Society Interface, 2015, 12, 20140891.	1.5	197
8	Nonâ€metal Singleâ€Iodineâ€Atom Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 12252-12257.	7.2	175
9	Interfacial nickel nitride/sulfide as a bifunctional electrode for highly efficient overall water/seawater electrolysis. Journal of Materials Chemistry A, 2019, 7, 8117-8121.	5.2	150
10	Use of Filamentous Fungi for Wastewater Treatment and Production of High Value Fungal Byproducts: A Review. Critical Reviews in Environmental Science and Technology, 2010, 40, 400-449.	6.6	140
11	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. Chemical Engineering Journal, 2018, 332, 647-657.	6.6	137
12	Activating natural bentonite as a cost-effective adsorbent for removal of Congo-red in wastewater. Journal of Industrial and Engineering Chemistry, 2015, 21, 653-661.	2.9	133
13	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. Journal of Cleaner Production, 2016, 118, 197-209.	4.6	127
14	Optimisation of an annular photoreactor process for degradation of Congo Red using a newly synthesized titania impregnated kaolinite nano-photocatalyst. Separation and Purification Technology, 2009, 67, 355-363.	3.9	116
15	Synthesis and characterisation of novel titania impregnated kaolinite nano-photocatalyst. Microporous and Mesoporous Materials, 2009, 117, 233-242.	2.2	109
16	Metabolic flux network and analysis of fermentative hydrogen production. Biotechnology Advances, 2011, 29, 375-387.	6.0	108
17	Evaluation of Titanium dioxide photocatalytic technology for the treatment of reactive Black 5 dye in synthetic and real greywater effluents. Journal of Cleaner Production, 2015, 89, 196-202.	4.6	93
18	Highly Selective Twoâ€Electron Electrocatalytic CO₂ Reduction on Singleâ€Atom Cu Catalysts. Small Structures, 2021, 2, 2000058.	6.9	93

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19	Synthesis, characterisation and application of TiO2â€“zeolite nanocomposites for the advanced treatment of industrial dye wastewater. Journal of the Taiwan Institute of Chemical Engineers, 2015, 50, 288-296.	2.7	92
20	An adsorptionâ€“photocatalysis hybrid process using multi-functional-nanoporous materials for wastewater reclamation. Water Research, 2010, 44, 5385-5397.	5.3	85
21	Photocatalytic treatment of high concentration carbamazepine in synthetic hospital wastewater. Journal of Hazardous Materials, 2012, 199-200, 135-142.	6.5	85
22	An integrated MBRâ€“TiO2 photocatalysis process for the removal of Carbamazepine from simulated pharmaceutical industrial effluent. Bioresource Technology, 2011, 102, 7012-7015.	4.8	84
23	Production of fungal protein and glucoamylase by Rhizopus oligosporus from starch processing wastewater. Process Biochemistry, 1999, 34, 59-65.	1.8	77
24	Metabolic flux analysis of hydrogen production network by Clostridium butyricum W5: Effect of pH and glucose concentrations. International Journal of Hydrogen Energy, 2010, 35, 6681-6690.	3.8	77
25	Insight into removal kinetic and mechanisms of anionic dye by calcined clay materials and lime. Journal of Hazardous Materials, 2010, 177, 420-427.	6.5	76
26	Hollow mesoporous silica nanoparticles: A peculiar structure for thin film nanocomposite membranes. Journal of Membrane Science, 2016, 519, 1-10.	4.1	72
27	Biofuels from food processing wastes. Current Opinion in Biotechnology, 2016, 38, 97-105.	3.3	72
28	Distributions and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Soils around a Chemical Plant in Shanxi, China. International Journal of Environmental Research and Public Health, 2017, 14, 1198.	1.2	71
29	Prospects of nanoparticleâ€“DNA binding and its implications in medical biotechnology. Biotechnology Advances, 2012, 30, 1721-1732.	6.0	67
30	Process optimization of biological hydrogen production from molasses by a newly isolated Clostridium butyricum W5. Journal of Bioscience and Bioengineering, 2009, 107, 138-144.	1.1	66
31	Enhancing removal efficiency of anionic dye by combination and calcination of clay materials and calcium hydroxide. Journal of Hazardous Materials, 2009, 171, 941-947.	6.5	66
32	Biotechnological production of lactic acid integrated with potato wastewater treatment byRhizopus arrhizus. Journal of Chemical Technology and Biotechnology, 2003, 78, 899-906.	1.6	65
33	Application of H-titanate nanofibers for degradation of Congo Red in an annular slurry photoreactor. Chemical Engineering Journal, 2009, 150, 49-54.	6.6	64
34	Functionalized thermo-responsive microgels for high performance forward osmosis desalination. Water Research, 2015, 70, 385-393.	5.3	62
35	Microengineered 3D cellâ€laden thermoresponsive hydrogels for mimicking cell morphology and orientation in cartilage tissue engineering. Biotechnology and Bioengineering, 2017, 114, 217-231.	1.7	61
36	Impact of carbon and nitrogen sources on hydrogen production by a newly isolated Clostridium butyricum W5. International Journal of Hydrogen Energy, 2008, 33, 4998-5005.	3.8	58

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37	DNA binding and aggregation by carbon nanoparticles. Biochemical and Biophysical Research Communications, 2010, 393, 571-576.	1.0	58
38	Bacterial inactivation kinetics of a photo-disinfection system using novel titania-impregnated kaolinite photocatalyst. Chemical Engineering Journal, 2011, 171, 16-23.	6.6	58
39	Understanding functionalized silica nanoparticles incorporation in thin film composite membranes: Interactions and desalination performance. Journal of Membrane Science, 2017, 521, 53-64.	4.1	58
40	Genetic manipulation of butyrate formation pathways in Clostridium butyricum. Journal of Biotechnology, 2011, 155, 269-274.	1.9	56
41	Co-monomer polymer anion exchange resin for removing Cr(VI) contaminants: Adsorption kinetics, mechanism and performance. Science of the Total Environment, 2020, 709, 136002.	3.9	56
42	Polyethylenimine modified silica nanoparticles enhance interfacial interactions and desalination performance of thin film nanocomposite membranes. Journal of Membrane Science, 2017, 541, 19-28.	4.1	55
43	A comprehensive pilot plant system for fungal biomass protein production and wastewater reclamation. Journal of Environmental Management, 2002, 6, 179-189.	1.7	53
44	Poly(Nâ€isopropylacrylamide) hydrogel/chitosan scaffold hybrid for threeâ€dimensional stem cell culture and cartilage tissue engineering. Journal of Biomedical Materials Research - Part A, 2016, 104, 2764-2774.	2.1	52
45	A genetic and metabolic approach to redirection of biochemical pathways of Clostridium butyricum for enhancing hydrogen production. Biotechnology and Bioengineering, 2013, 110, 338-342.	1.7	50
46	Evaluating the photodegradation of Carbamazepine in a sequential batch photoreactor system: Impacts of effluent organic matter and inorganic ions. Chemical Engineering Journal, 2011, 174, 595-602.	6.6	48
47	Cerium oxide doped nanocomposite membranes for reverse osmosis desalination. Chemosphere, 2019, 218, 974-983.	4.2	46
48	Rhizopus arrhizusâ€“ a producer for simultaneous saccharification and fermentation of starch waste materials to l(+)-lactic acid. Biotechnology Letters, 2003, 25, 1983-1987.	1.1	45
49	A new approach to optimise an annular slurry photoreactor system for the degradation of Congo Red: Statistical analysis and modelling. Chemical Engineering Journal, 2009, 152, 158-166.	6.6	44
50	Study of microbial perchlorate reduction: Considering of multiple pH, electron acceptors and donors. Journal of Hazardous Materials, 2015, 285, 228-235.	6.5	44
51	Flow regime, hydrodynamics, floc size distribution and sludge properties in activated sludge bubble column, air-lift and aerated stirred reactors. Chemical Engineering Science, 2004, 59, 2379-2388.	1.9	43
52	A biodegradable thermosensitive hydrogel with tuneable properties for mimicking three-dimensional microenvironments of stem cells. RSC Advances, 2014, 4, 63951-63961.	1.7	43
53	CFD modelling of hydrodynamics and degradation kinetics in an annular slurry photocatalytic reactor for wastewater treatment. Chemical Engineering Journal, 2011, 172, 84-95.	6.6	41
54	Thermoresponsive Acidic Microgels as Functional Draw Agents for Forward Osmosis Desalination. Environmental Science & Technology, 2016, 50, 4221-4228.	4.6	41

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55	Screening and selection of microfungi for microbial biomass protein production and water reclamation from starch processing wastewater. Journal of Chemical Technology and Biotechnology, 1999, 74, 106-110.	1.6	40
56	Production of fungal biomass protein using microfungi from winery wastewater treatment. Bioresource Technology, 2008, 99, 3871-3876.	4.8	40
57	Effect of the dosage ratio and the viscosity of PAC/PDMDAAC on coagulation performance and membrane fouling in a hybrid coagulation-ultrafiltration process. Chemosphere, 2017, 173, 288-298.	4.2	38
58	Evaluation of the physical properties and photodegradation ability of titania nanocrystalline impregnated onto modified kaolin. Microporous and Mesoporous Materials, 2010, 132, 201-209.	2.2	35
59	Terrimonas pekingensis sp. nov., isolated from bulking sludge, and emended descriptions of the genus Terrimonas , Terrimonas ferruginea , Terrimonas lutea and Terrimonas aquatica. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 1658-1664.	0.8	34
60	Chemical impact of catholytes on Bacillus subtilis-catalysed microbial fuel cell performance for degrading 2,4-dichlorophenol. Chemical Engineering Journal, 2016, 301, 103-114.	6.6	34
61	Photocatalytic activity of TiO2 nanofibers in simulated and real municipal effluents. Catalysis Today, 2011, 161, 147-152.	2.2	31
62	An integrated statistic and systematic approach to study correlation of synthesis condition and desalination performance of thin film composite membranes. Desalination, 2016, 394, 138-147.	4.0	31
63	Bacterial inactivation kinetics, regrowth and synergistic competition in a photocatalytic disinfection system using anatase titanate nanofiber catalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 214, 1-9.	2.0	30
64	Manipulation of nanofiber-based Î²-galactosidase nanoenvironment for enhancement of galacto-oligosaccharide production. Journal of Biotechnology, 2016, 222, 56-64.	1.9	30
65	Influence of polymer molecular weight on the in vitro cytotoxicity of poly (N-isopropylacrylamide). Materials Science and Engineering C, 2016, 59, 509-513.	3.8	30
66	Non-ionic copolymer microgels as high-performance draw materials for forward osmosis desalination. Journal of Membrane Science, 2019, 572, 480-488.	4.1	29
67	Applications of Online UV-Vis Spectrophotometer for Drinking Water Quality Monitoring and Process Control: A Review. Sensors, 2022, 22, 2987.	2.1	29
68	Gas-responsive cationic microgels for forward osmosis desalination. Chemical Engineering Journal, 2018, 347, 424-431.	6.6	28
69	Enhancing enzyme stability and metabolic functional ability of Î²-galactosidase through functionalized polymer nanofiber immobilization. Bioprocess and Biosystems Engineering, 2015, 38, 1915-1923.	1.7	27
70	Bioelectrochemical Reaction Kinetics, Mechanisms, and Pathways of Chlorophenol Degradation in MFC Using Different Microbial Consortia. ACS Sustainable Chemistry and Engineering, 2019, 7, 17263-17272.	3.2	27
71	DNA Exposure to Buckminsterfullerene (C60): Toward DNA Stability, Reactivity, and Replication. Environmental Science & Technology, 2011, 45, 6608-6616.	4.6	25
72	Thermoresponsive cationic copolymer microgels as high performance draw agents in forward osmosis desalination. Journal of Membrane Science, 2016, 518, 273-281.	4.1	25

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73	Alternative particle compensation techniques for online water quality monitoring using UVâ€“Vis spectrophotometer. Chemometrics and Intelligent Laboratory Systems, 2020, 204, 104074.	1.8	24
74	A bioprocessing mode for simultaneous fungal biomass protein production and wastewater treatment using an external air-lift bioreactor. Journal of Chemical Technology and Biotechnology, 2001, 76, 1041-1048.	1.6	23
75	Title is missing!. World Journal of Microbiology and Biotechnology, 2001, 17, 265-272.	1.7	23
76	Bioconversion of wastewater from sweet potato starch production to Paenibacillus polymyxa biofertilizer for tea plants. Scientific Reports, 2014, 4, 4131.	1.6	23
77	Nonâ€metal Singleâ€Iodineâ€Atom Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 12380-12385.	1.6	23
78	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. Journal of Materials Chemistry A, 2019, 7, 22514-22529.	5.2	23
79	Graphene-encapsulated nickelâ€“copper bimetallic nanoparticle catalysts for electrochemical reduction of CO₂to CO. Chemical Communications, 2020, 56, 11275-11278.	2.2	23
80	Independent duplications of Î±-amylase in different strains of Aspergillus oryzae. Fungal Genetics and Biology, 2011, 48, 438-444.	0.9	22
81	Synergistic catalysis between atomically dispersed Fe and a pyrrolic-N-C framework for CO₂ electroreduction. Nanoscale Horizons, 2019, 4, 1411-1415.	4.1	21
82	Efficiency and mechanism of reducing ammonia volatilization in alkaline farmland soil using Bacillus amyloliquefaciens biofertilizer. Environmental Research, 2021, 202, 111672.	3.7	21
83	Disinhibition of excessive volatile fatty acids to improve the efficiency of autothermal thermophilic aerobic sludge digestion by chemical approach. Bioresource Technology, 2015, 175, 120-127.	4.8	20
84	Fabricating polystyrene fiber-dehydrogenase assemble as a functional biocatalyst. Enzyme and Microbial Technology, 2015, 68, 15-22.	1.6	18
85	Dendrimer-like nanoparticles based Î²-galactosidase assembly for enhancing its selectivity toward transgalactosylation. Enzyme and Microbial Technology, 2016, 84, 68-77.	1.6	18
86	Engineering of Broadband Nanoporous Semiconductor Photonic Crystals for Visible-Light-Driven Photocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 57079-57092.	4.0	18
87	High-performance size exclusion chromatography with a multi-wavelength absorbance detector study on dissolved organic matter characterisation along a water distribution system. Journal of Environmental Sciences, 2016, 44, 235-243.	3.2	17
88	Characterisation of dissolved organic matter in stormwater using high-performance size exclusion chromatography. Journal of Environmental Sciences, 2016, 42, 236-245.	3.2	17
89	rGO/CNTs Supported Pyrolysis Derivatives of [Mo₃S₁₃]^{2â€“} Clusters as Promising Electrocatalysts for Enhancing Hydrogen Evolution Performances. ACS Sustainable Chemistry and Engineering, 2018, 6, 6920-6931.	3.2	17
90	Production of L(+)-Lactic Acid Using Acid-Adapted Precultures of Rhizopus arrhizus in a Stirred Tank Reactor. Applied Biochemistry and Biotechnology, 2008, 149, 265-276.	1.4	16

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91	A biotech-systematic approach to select fungi for bioconversion of winery biomass wastes to nutrient-rich feed. Chemical Engineering Research and Design, 2016, 103, 60-68.	2.7	16
92	Development of a pilot fluidised bed reactor system with a formulated clayâ€“lime mixture for continuous removal of chemical pollutants from wastewater. Chemical Engineering Journal, 2010, 158, 535-541.	6.6	14
93	Investigating the bacterial community and amoebae population in rural domestic wastewater reclamation for irrigation. Journal of Environmental Sciences, 2018, 70, 97-105.	3.2	14
94	Using H-titanate nanofiber catalysts for water disinfection: Understanding and modelling of the inactivation kinetics and mechanisms. Chemical Engineering Science, 2011, 66, 6525-6535.	1.9	13
95	Wine Industry Residues. , 2009, , 293-311.		12
96	Sol-Gel Synthesis of Inorganic Mesostructured Composite Photocatalyst for Water Purification: An Insight Into the Synthesis Fundamentals, Reaction, and Binding Mechanisms. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 68-75.	0.6	12
97	Determination of coagulant dosages for process control using online UV-vis spectra of raw water. Journal of Water Process Engineering, 2022, 45, 102526.	2.6	12
98	Direct fermentation of potato starch in wastewater to lactic acid byRhizopus oryzae. Biotechnology and Bioprocess Engineering, 2004, 9, 245-251.	1.4	10
99	Synergistic Enhancement in Antibacterial Activity of Core/Shell/Shell SiO₂/ZnO/Ag₃PO₄ Nanoparticles. ChemNanoMat, 2018, 4, 972-981.	1.5	10
100	Hybridising nitrogen doped titania with kaolinite: A feasible catalyst for a semi-continuous photo-degradation reactor system. Chemical Engineering Journal, 2015, 279, 939-947.	6.6	8
101	Contemporaneous oxidation state manipulation to accelerate intermediate desorption for overall water electrolysis. Chemical Communications, 2019, 55, 8313-8316.	2.2	7
102	O2/N2-responsive microgels as functional draw agents for gas-triggering forward osmosis desalination. Journal of Membrane Science, 2020, 595, 117584.	4.1	7
103	Interfacial Biocatalytic Performance of Nanofiber-Supported Î²-Galactosidase for Production of Galacto-Oligosaccharides. Catalysts, 2020, 10, 81.	1.6	7
104	Enhancement of l(+)-lactic acid production using acid-adapted precultures of Rhizopus arrhizus in a bubble column reactor. Journal of Bioscience and Bioengineering, 2009, 108, 344-347.	1.1	5
105	Impact of fullerene particle interaction on biochemical activities in fermenting Zymomonas mobilis. Environmental Toxicology and Chemistry, 2012, 31, 712-716.	2.2	5
106	The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. Chemistry - A European Journal, 2020, 26, 3898-3905.	1.7	5
107	Reliability modelling with redundancyâ€”A case study of power generation engines in a wastewater treatment plant. Quality and Reliability Engineering International, 2020, 36, 784-796.	1.4	5
108	Smart Scheduling of Pump Control in Wastewater Networks Based on Electricity Spot Market Prices. Water Conservation Science and Engineering, 2021, 6, 79-94.	0.9	5

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109	A Robust Strategy for â€œLivingâ€•Growth of Lead Sulfide Quantum Dots. ChemNanoMat, 2016, 2, 49-53.	1.5	4
110	Evaluation of the impact of suspended particles on the UV absorbance at 254 nm (UV254) measurements using a submersible UV-Vis spectrophotometer. Environmental Science and Pollution Research, 2021, 28, 12576-12586.	2.7	4
111	The preparation of porosity modified porous organic frameworks via kaolin loading and its improved aromatic organic compounds removal performance. Microporous and Mesoporous Materials, 2021, 315, 110855.	2.2	4
112	Recirculating Spiral Bioreactor for Galactooligosaccharide Production Using Polymer Nanofiber-Î²-galactosidase Assembly. Industrial & Engineering Chemistry Research, 2017, 56, 12479-12487.	1.8	3
113	Dual-response quadratic model for optimisation of electricity generation and chlorophenol degradation by electro-degradative Bacillus subtilis in microbial fuel cell system. Environmental Technology (United Kingdom), 2022, 43, 2867-2880.	1.2	3
114	Ref: EATJ-D-19-00148 - prediction of remaining useful life of naval structures using a covariate-base hazard model. Australian Journal of Structural Engineering, 2020, 21, 208-217.	0.4	2
115	Exploring hierarchical porous silica-supported Ag3PO4 as high-efficient and environmental-friendly photocatalytic disinfectant. Journal of Materials Science, 2021, 56, 14257-14269.	1.7	2
116	A statistical approach to boost soluble expression of E. coli-derived virus-like particles in shake-flask cultivation. Journal of Biotechnology, 2022, 347, 56-66.	1.9	2
117	A reliabilityâ€cost optimisation model for maintenance scheduling of wastewater treatment's power generation engines. Quality and Reliability Engineering International, 0, , .	1.4	1
118	Influence of physicochemical characteristics of feed solution on water permeability in forward osmosis desalination system. Desalination, 2021, 517, 115266.	4.0	1
119	Stormwater monitoring using on-line UV-Vis spectroscopy. Environmental Science and Pollution Research, 2022, 29, 19530-19539.	2.7	1
120	Prognostic modelling for industrial asset health management. Safety and Reliability, 2022, 41, 45-97.	1.0	1
121	Frontispiece: The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. Chemistry - A European Journal, 2020, 26, .	1.7	0