

Bo Jin

List of Publications by Year in descending order

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121
papers

11,136
citations

50276

46
h-index

30087

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. <i>Water Research</i> , 2010, 44, 2997-3027.	11.3	4,343
2	Kinetic study and equilibrium isotherm analysis of Congo Red adsorption by clay materials. <i>Chemical Engineering Journal</i> , 2009, 148, 354-364.	12.7	784
3	Adsorption characteristics, isotherm, kinetics, and diffusion of modified natural bentonite for removing diazo dye. <i>Chemical Engineering Journal</i> , 2012, 187, 79-88.	12.7	398
4	Charge State Manipulation of Cobalt Selenide Catalyst for Overall Seawater Electrolysis. <i>Advanced Energy Materials</i> , 2018, 8, 1801926.	19.5	264
5	Adsorption of congo red by three Australian kaolins. <i>Applied Clay Science</i> , 2009, 43, 465-472.	5.2	243
6	Production of lactic acid from renewable materials by <i>Rhizopus</i> fungi. <i>Biochemical Engineering Journal</i> , 2007, 35, 251-263.	3.6	208
7	Nanobiocatalyst advancements and bioprocessing applications. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140891.	3.4	197
8	Non-metal Single-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12252-12257.	13.8	175
9	Interfacial nickel nitride/sulfide as a bifunctional electrode for highly efficient overall water/seawater electrolysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8117-8121.	10.3	150
10	Use of Filamentous Fungi for Wastewater Treatment and Production of High Value Fungal Byproducts: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2010, 40, 400-449.	12.8	140
11	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. <i>Chemical Engineering Journal</i> , 2018, 332, 647-657.	12.7	137
12	Activating natural bentonite as a cost-effective adsorbent for removal of Congo-red in wastewater. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 653-661.	5.8	133
13	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. <i>Journal of Cleaner Production</i> , 2016, 118, 197-209.	9.3	127
14	Optimisation of an annular photoreactor process for degradation of Congo Red using a newly synthesized titania impregnated kaolinite nano-photocatalyst. <i>Separation and Purification Technology</i> , 2009, 67, 355-363.	7.9	116
15	Synthesis and characterisation of novel titania impregnated kaolinite nano-photocatalyst. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 233-242.	4.4	109
16	Metabolic flux network and analysis of fermentative hydrogen production. <i>Biotechnology Advances</i> , 2011, 29, 375-387.	11.7	108
17	Evaluation of Titanium dioxide photocatalytic technology for the treatment of reactive Black 5 dye in synthetic and real greywater effluents. <i>Journal of Cleaner Production</i> , 2015, 89, 196-202.	9.3	93
18	Highly Selective Two-Electron Electrocatalytic CO ₂ Reduction on Single-Atom Cu Catalysts. <i>Small Structures</i> , 2021, 2, 2000058.	12.0	93

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19	Synthesis, characterisation and application of TiO ₂ @zeolite nanocomposites for the advanced treatment of industrial dye wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 50, 288-296.	5.3	92
20	An adsorption-photocatalysis hybrid process using multi-functional-nanoporous materials for wastewater reclamation. <i>Water Research</i> , 2010, 44, 5385-5397.	11.3	85
21	Photocatalytic treatment of high concentration carbamazepine in synthetic hospital wastewater. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 135-142.	12.4	85
22	An integrated MBR-TiO ₂ photocatalysis process for the removal of Carbamazepine from simulated pharmaceutical industrial effluent. <i>Bioresource Technology</i> , 2011, 102, 7012-7015.	9.6	84
23	Production of fungal protein and glucoamylase by <i>Rhizopus oligosporus</i> from starch processing wastewater. <i>Process Biochemistry</i> , 1999, 34, 59-65.	3.7	77
24	Metabolic flux analysis of hydrogen production network by <i>Clostridium butyricum</i> W5: Effect of pH and glucose concentrations. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6681-6690.	7.1	77
25	Insight into removal kinetic and mechanisms of anionic dye by calcined clay materials and lime. <i>Journal of Hazardous Materials</i> , 2010, 177, 420-427.	12.4	76
26	Hollow mesoporous silica nanoparticles: A peculiar structure for thin film nanocomposite membranes. <i>Journal of Membrane Science</i> , 2016, 519, 1-10.	8.2	72
27	Biofuels from food processing wastes. <i>Current Opinion in Biotechnology</i> , 2016, 38, 97-105.	6.6	72
28	Distributions and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Soils around a Chemical Plant in Shanxi, China. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1198.	2.6	71
29	Prospects of nanoparticle-DNA binding and its implications in medical biotechnology. <i>Biotechnology Advances</i> , 2012, 30, 1721-1732.	11.7	67
30	Process optimization of biological hydrogen production from molasses by a newly isolated <i>Clostridium butyricum</i> W5. <i>Journal of Bioscience and Bioengineering</i> , 2009, 107, 138-144.	2.2	66
31	Enhancing removal efficiency of anionic dye by combination and calcination of clay materials and calcium hydroxide. <i>Journal of Hazardous Materials</i> , 2009, 171, 941-947.	12.4	66
32	Biotechnological production of lactic acid integrated with potato wastewater treatment by <i>Rhizopus arrhizus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 899-906.	3.2	65
33	Application of H-titanate nanofibers for degradation of Congo Red in an annular slurry photoreactor. <i>Chemical Engineering Journal</i> , 2009, 150, 49-54.	12.7	64
34	Functionalized thermo-responsive microgels for high performance forward osmosis desalination. <i>Water Research</i> , 2015, 70, 385-393.	11.3	62
35	Microengineered 3D cell-laden thermoresponsive hydrogels for mimicking cell morphology and orientation in cartilage tissue engineering. <i>Biotechnology and Bioengineering</i> , 2017, 114, 217-231.	3.3	61
36	Impact of carbon and nitrogen sources on hydrogen production by a newly isolated <i>Clostridium butyricum</i> W5. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4998-5005.	7.1	58

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37	DNA binding and aggregation by carbon nanoparticles. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 571-576.	2.1	58
38	Bacterial inactivation kinetics of a photo-disinfection system using novel titania-impregnated kaolinite photocatalyst. <i>Chemical Engineering Journal</i> , 2011, 171, 16-23.	12.7	58
39	Understanding functionalized silica nanoparticles incorporation in thin film composite membranes: Interactions and desalination performance. <i>Journal of Membrane Science</i> , 2017, 521, 53-64.	8.2	58
40	Genetic manipulation of butyrate formation pathways in <i>Clostridium butyricum</i> . <i>Journal of Biotechnology</i> , 2011, 155, 269-274.	3.8	56
41	Co-monomer polymer anion exchange resin for removing Cr(VI) contaminants: Adsorption kinetics, mechanism and performance. <i>Science of the Total Environment</i> , 2020, 709, 136002.	8.0	56
42	Polyethylenimine modified silica nanoparticles enhance interfacial interactions and desalination performance of thin film nanocomposite membranes. <i>Journal of Membrane Science</i> , 2017, 541, 19-28.	8.2	55
43	A comprehensive pilot plant system for fungal biomass protein production and wastewater reclamation. <i>Journal of Environmental Management</i> , 2002, 6, 179-189.	1.7	53
44	Poly(<i>N</i> -isopropylacrylamide) hydrogel/chitosan scaffold hybrid for three-dimensional stem cell culture and cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2764-2774.	4.0	52
45	A genetic and metabolic approach to redirection of biochemical pathways of <i>Clostridium butyricum</i> for enhancing hydrogen production. <i>Biotechnology and Bioengineering</i> , 2013, 110, 338-342.	3.3	50
46	Evaluating the photodegradation of Carbamazepine in a sequential batch photoreactor system: Impacts of effluent organic matter and inorganic ions. <i>Chemical Engineering Journal</i> , 2011, 174, 595-602.	12.7	48
47	Cerium oxide doped nanocomposite membranes for reverse osmosis desalination. <i>Chemosphere</i> , 2019, 218, 974-983.	8.2	46
48	<i>Rhizopus arrhizus</i> a producer for simultaneous saccharification and fermentation of starch waste materials to l(+)-lactic acid. <i>Biotechnology Letters</i> , 2003, 25, 1983-1987.	2.2	45
49	A new approach to optimise an annular slurry photoreactor system for the degradation of Congo Red: Statistical analysis and modelling. <i>Chemical Engineering Journal</i> , 2009, 152, 158-166.	12.7	44
50	Study of microbial perchlorate reduction: Considering of multiple pH, electron acceptors and donors. <i>Journal of Hazardous Materials</i> , 2015, 285, 228-235.	12.4	44
51	Flow regime, hydrodynamics, floc size distribution and sludge properties in activated sludge bubble column, air-lift and aerated stirred reactors. <i>Chemical Engineering Science</i> , 2004, 59, 2379-2388.	3.8	43
52	A biodegradable thermosensitive hydrogel with tuneable properties for mimicking three-dimensional microenvironments of stem cells. <i>RSC Advances</i> , 2014, 4, 63951-63961.	3.6	43
53	CFD modelling of hydrodynamics and degradation kinetics in an annular slurry photocatalytic reactor for wastewater treatment. <i>Chemical Engineering Journal</i> , 2011, 172, 84-95.	12.7	41
54	Thermoresponsive Acidic Microgels as Functional Draw Agents for Forward Osmosis Desalination. <i>Environmental Science & Technology</i> , 2016, 50, 4221-4228.	10.0	41

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55	Screening and selection of microfungi for microbial biomass protein production and water reclamation from starch processing wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 1999, 74, 106-110.	3.2	40
56	Production of fungal biomass protein using microfungi from winery wastewater treatment. <i>Bioresource Technology</i> , 2008, 99, 3871-3876.	9.6	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. <i>Chemosphere</i> , 2017, 173, 288-298.	8.2	38
58	Evaluation of the physical properties and photodegradation ability of titania nanocrystalline impregnated onto modified kaolin. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 201-209.	4.4	35
59	<i>Terrimonas pekingensis</i> sp. nov., isolated from bulking sludge, and emended descriptions of the genus <i>Terrimonas</i> , <i>Terrimonas ferruginea</i> , <i>Terrimonas lutea</i> and <i>Terrimonas aquatica</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1658-1664.	1.7	34
60	Chemical impact of catholytes on <i>Bacillus subtilis</i> -catalysed microbial fuel cell performance for degrading 2,4-dichlorophenol. <i>Chemical Engineering Journal</i> , 2016, 301, 103-114.	12.7	34
61	Photocatalytic activity of TiO ₂ nanofibers in simulated and real municipal effluents. <i>Catalysis Today</i> , 2011, 161, 147-152.	4.4	31
62	An integrated statistic and systematic approach to study correlation of synthesis condition and desalination performance of thin film composite membranes. <i>Desalination</i> , 2016, 394, 138-147.	8.2	31
63	Bacterial inactivation kinetics, regrowth and synergistic competition in a photocatalytic disinfection system using anatase titanate nanofiber catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 214, 1-9.	3.9	30
64	Manipulation of nanofiber-based β -galactosidase nanoenvironment for enhancement of galacto-oligosaccharide production. <i>Journal of Biotechnology</i> , 2016, 222, 56-64.	3.8	30
65	Influence of polymer molecular weight on the in vitro cytotoxicity of poly (N-isopropylacrylamide). <i>Materials Science and Engineering C</i> , 2016, 59, 509-513.	7.3	30
66	Non-ionic copolymer microgels as high-performance draw materials for forward osmosis desalination. <i>Journal of Membrane Science</i> , 2019, 572, 480-488.	8.2	29
67	Applications of Online UV-Vis Spectrophotometer for Drinking Water Quality Monitoring and Process Control: A Review. <i>Sensors</i> , 2022, 22, 2987.	3.8	29
68	Gas-responsive cationic microgels for forward osmosis desalination. <i>Chemical Engineering Journal</i> , 2018, 347, 424-431.	12.7	28
69	Enhancing enzyme stability and metabolic functional ability of β -galactosidase through functionalized polymer nanofiber immobilization. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1915-1923.	3.4	27
70	Bioelectrochemical Reaction Kinetics, Mechanisms, and Pathways of Chlorophenol Degradation in MFC Using Different Microbial Consortia. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17263-17272.	6.7	27
71	DNA Exposure to Buckminsterfullerene (C ₆₀): Toward DNA Stability, Reactivity, and Replication. <i>Environmental Science & Technology</i> , 2011, 45, 6608-6616.	10.0	25
72	Thermoresponsive cationic copolymer microgels as high performance draw agents in forward osmosis desalination. <i>Journal of Membrane Science</i> , 2016, 518, 273-281.	8.2	25

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73	Alternative particle compensation techniques for online water quality monitoring using UV-Vis spectrophotometer. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 204, 104074.	3.5	24
74	A bioprocessing mode for simultaneous fungal biomass protein production and wastewater treatment using an external air-lift bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 1041-1048.	3.2	23
75	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 265-272.	3.6	23
76	Bioconversion of wastewater from sweet potato starch production to <i>Paenibacillus polymyxa</i> biofertilizer for tea plants. <i>Scientific Reports</i> , 2014, 4, 4131.	3.3	23
77	Non-metal Single-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 12380-12385.	2.0	23
78	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22514-22529.	10.3	23
79	Graphene-encapsulated nickel-copper bimetallic nanoparticle catalysts for electrochemical reduction of CO ₂ to CO. <i>Chemical Communications</i> , 2020, 56, 11275-11278.	4.1	23
80	Independent duplications of α -amylase in different strains of <i>Aspergillus oryzae</i> . <i>Fungal Genetics and Biology</i> , 2011, 48, 438-444.	2.1	22
81	Synergistic catalysis between atomically dispersed Fe and a pyrrolic-N-C framework for CO ₂ electroreduction. <i>Nanoscale Horizons</i> , 2019, 4, 1411-1415.	8.0	21
82	Efficiency and mechanism of reducing ammonia volatilization in alkaline farmland soil using <i>Bacillus amyloliquefaciens</i> biofertilizer. <i>Environmental Research</i> , 2021, 202, 111672.	7.5	21
83	Disinhibition of excessive volatile fatty acids to improve the efficiency of autothermal thermophilic aerobic sludge digestion by chemical approach. <i>Bioresource Technology</i> , 2015, 175, 120-127.	9.6	20
84	Fabricating polystyrene fiber-dehydrogenase assemble as a functional biocatalyst. <i>Enzyme and Microbial Technology</i> , 2015, 68, 15-22.	3.2	18
85	Dendrimer-like nanoparticles based β -galactosidase assembly for enhancing its selectivity toward transgalactosylation. <i>Enzyme and Microbial Technology</i> , 2016, 84, 68-77.	3.2	18
86	Engineering of Broadband Nanoporous Semiconductor Photonic Crystals for Visible-Light-Driven Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57079-57092.	8.0	18
87	High-performance size exclusion chromatography with a multi-wavelength absorbance detector study on dissolved organic matter characterisation along a water distribution system. <i>Journal of Environmental Sciences</i> , 2016, 44, 235-243.	6.1	17
88	Characterisation of dissolved organic matter in stormwater using high-performance size exclusion chromatography. <i>Journal of Environmental Sciences</i> , 2016, 42, 236-245.	6.1	17
89	rGO/CNTs Supported Pyrolysis Derivatives of [Mo ₃ S ₁₃] ²⁺ Clusters as Promising Electrocatalysts for Enhancing Hydrogen Evolution Performances. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6920-6931.	6.7	17
90	Production of L(+)-Lactic Acid Using Acid-Adapted Precultures of <i>Rhizopus arrhizus</i> in a Stirred Tank Reactor. <i>Applied Biochemistry and Biotechnology</i> , 2008, 149, 265-276.	2.9	16

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91	A biotech-systematic approach to select fungi for bioconversion of winery biomass wastes to nutrient-rich feed. <i>Chemical Engineering Research and Design</i> , 2016, 103, 60-68.	5.6	16
92	Development of a pilot fluidised bed reactor system with a formulated clay-lime mixture for continuous removal of chemical pollutants from wastewater. <i>Chemical Engineering Journal</i> , 2010, 158, 535-541.	12.7	14
93	Investigating the bacterial community and amoebae population in rural domestic wastewater reclamation for irrigation. <i>Journal of Environmental Sciences</i> , 2018, 70, 97-105.	6.1	14
94	Using H-titanate nanofiber catalysts for water disinfection: Understanding and modelling of the inactivation kinetics and mechanisms. <i>Chemical Engineering Science</i> , 2011, 66, 6525-6535.	3.8	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. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 68-75.	0.6	12
97	Determination of coagulant dosages for process control using online UV-vis spectra of raw water. <i>Journal of Water Process Engineering</i> , 2022, 45, 102526.	5.6	12
98	Direct fermentation of potato starch in wastewater to lactic acid by <i>Rhizopus oryzae</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 245-251.	2.6	10
99	Synergistic Enhancement in Antibacterial Activity of Core/Shell/Shell $\text{SiO}_2/\text{ZnO}/\text{Ag}_3\text{PO}_4$ Nanoparticles. <i>ChemNanoMat</i> , 2018, 4, 972-981.	2.8	10
100	Hybridising nitrogen doped titania with kaolinite: A feasible catalyst for a semi-continuous photo-degradation reactor system. <i>Chemical Engineering Journal</i> , 2015, 279, 939-947.	12.7	8
101	Contemporaneous oxidation state manipulation to accelerate intermediate desorption for overall water electrolysis. <i>Chemical Communications</i> , 2019, 55, 8313-8316.	4.1	7
102	O_2/N_2 -responsive microgels as functional draw agents for gas-triggering forward osmosis desalination. <i>Journal of Membrane Science</i> , 2020, 595, 117584.	8.2	7
103	Interfacial Biocatalytic Performance of Nanofiber-Supported β -Galactosidase for Production of Galacto-Oligosaccharides. <i>Catalysts</i> , 2020, 10, 81.	3.5	7
104	Enhancement of l(+)-lactic acid production using acid-adapted precultures of <i>Rhizopus arrhizus</i> in a bubble column reactor. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 344-347.	2.2	5
105	Impact of fullerene particle interaction on biochemical activities in fermenting <i>Zymomonas mobilis</i> . <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 712-716.	4.3	5
106	The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. <i>Chemistry - A European Journal</i> , 2020, 26, 3898-3905.	3.3	5
107	Reliability modelling with redundancy—A case study of power generation engines in a wastewater treatment plant. <i>Quality and Reliability Engineering International</i> , 2020, 36, 784-796.	2.3	5
108	Smart Scheduling of Pump Control in Wastewater Networks Based on Electricity Spot Market Prices. <i>Water Conservation Science and Engineering</i> , 2021, 6, 79-94.	1.7	5

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109	A Robust Strategy for "Living" Growth of Lead Sulfide Quantum Dots. <i>ChemNanoMat</i> , 2016, 2, 49-53.	2.8	4
110	Evaluation of the impact of suspended particles on the UV absorbance at 254 nm (UV254) measurements using a submersible UV-Vis spectrophotometer. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12576-12586.	5.3	4
111	The preparation of porosity modified porous organic frameworks via kaolin loading and its improved aromatic organic compounds removal performance. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110855.	4.4	4
112	Recirculating Spiral Bioreactor for Galactooligosaccharide Production Using Polymer Nanofiber- β -galactosidase Assembly. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12479-12487.	3.7	3
113	Dual-response quadratic model for optimisation of electricity generation and chlorophenol degradation by electro-degradative <i>Bacillus subtilis</i> in microbial fuel cell system. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 2867-2880.	2.2	3
114	Ref: EATJ-D-19-00148 - prediction of remaining useful life of naval structures using a covariate-base hazard model. <i>Australian Journal of Structural Engineering</i> , 2020, 21, 208-217.	1.1	2
115	Exploring hierarchical porous silica-supported Ag ₃ PO ₄ as high-efficient and environmental-friendly photocatalytic disinfectant. <i>Journal of Materials Science</i> , 2021, 56, 14257-14269.	3.7	2
116	A statistical approach to boost soluble expression of E. coli-derived virus-like particles in shake-flask cultivation. <i>Journal of Biotechnology</i> , 2022, 347, 56-66.	3.8	2
117	A reliability-cost optimisation model for maintenance scheduling of wastewater treatment's power generation engines. <i>Quality and Reliability Engineering International</i> , 0, , .	2.3	1
118	Influence of physicochemical characteristics of feed solution on water permeability in forward osmosis desalination system. <i>Desalination</i> , 2021, 517, 115266.	8.2	1
119	Stormwater monitoring using on-line UV-Vis spectroscopy. <i>Environmental Science and Pollution Research</i> , 2022, 29, 19530-19539.	5.3	1
120	Prognostic modelling for industrial asset health management. <i>Safety and Reliability</i> , 2022, 41, 45-97.	0.6	1
121	Frontispiece: The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0