Xun Zhu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/179983/publications.pdf

Version: 2024-02-01

362 papers	10,914 citations	30070 54 h-index	74163 75 g-index
365 all docs	365 docs citations	365 times ranked	9854 citing authors

#	Article	IF	Citations
1	A review of waste heat recovery technologies towards molten slag in steel industry. Applied Energy, 2013, 112, 956-966.	10.1	339
2	Biofilm formation and electricity generation of a microbial fuel cell started up under different external resistances. Journal of Power Sources, 2011, 196, 6029-6035.	7.8	223
3	Statistical Research on the Bioactivity of New Marine Natural Products Discovered during the 28 Years from 1985 to 2012. Marine Drugs, 2015, 13, 202-221.	4.6	192
4	An investigation of CO2 adsorption kinetics on porous magnesium oxide. Chemical Engineering Journal, 2016, 283, 175-183.	12.7	179
5	Life-cycle assessment of biofuel production from microalgae via various bioenergy conversion systems. Energy, 2019, 171, 1033-1045.	8.8	114
6	Epidemiology characteristics of human coronaviruses in patients with respiratory infection symptoms and phylogenetic analysis of HCoV-OC43 during 2010-2015 in Guangzhou. PLoS ONE, 2018, 13, e0191789.	2.5	112
7	Aberrantly expressed miR-582-3p maintains lung cancer stem cell-like traits by activating Wnt/Î²-catenin signalling. Nature Communications, 2015, 6, 8640.	12.8	110
8	Numerical investigation of water droplet dynamics in a low-temperature fuel cell microchannel: Effect of channel geometry. Journal of Power Sources, 2010, 195, 801-812.	7.8	108
9	Pyrolysis kinetics and reaction mechanism of the electrode materials during the spent LiCoO2 batteries recovery process. Journal of Hazardous Materials, 2020, 398, 122955.	12.4	108
10	Carbon-Based Photothermal Superhydrophobic Materials with Hierarchical Structure Enhances the Anti-Icing and Photothermal Deicing Properties. ACS Applied Materials & Interfaces, 2021, 13, 48308-48321.	8.0	102
11	A novel photobioreactor generating the light/dark cycle to improve microalgae cultivation. Bioresource Technology, 2014, 161, 186-191.	9.6	101
12	Kinetic characteristics and modeling of microalgae Chlorella vulgaris growth and CO2 biofixation considering the coupled effects of light intensity and dissolved inorganic carbon. Bioresource Technology, 2016, 206, 231-238.	9.6	101
13	IFITM3-containing exosome as a novel mediator for anti-viral response in dengue virus infection. Cellular Microbiology, 2015, 17, 105-118.	2.1	99
14	Bamboo charcoal as a cost-effective catalyst for an air-cathode of microbial fuel cells. Electrochimica Acta, 2017, 224, 585-592.	5.2	92
15	Boosting Power Density of Microbial Fuel Cells with 3D Nitrogenâ€Doped Graphene Aerogel Electrode. Advanced Science, 2016, 3, 1600097.	11.2	91
16	Tubular bamboo charcoal for anode in microbial fuel cells. Journal of Power Sources, 2014, 272, 277-282.	7.8	90
17	Photo-bioreactor design for microalgae: A review from the aspect of CO2 transfer and conversion. Bioresource Technology, 2019, 292, 121947.	9.6	86
18	Visualization study on the dynamics of CO2 bubbles in anode channels and performance of a DMFC. Journal of Power Sources, 2007, 171, 644-651.	7.8	84

#	Article	IF	Citations
19	MicroRNA-30e* Suppresses Dengue Virus Replication by Promoting NF-ÎºBâ€“Dependent IFN Production. PLoS Neglected Tropical Diseases, 2014, 8, e3088.	3.0	84
20	Biohydrogen production from microalgae for environmental sustainability. Chemosphere, 2022, 291, 132717.	8.2	81
21	Optofluidics based micro-photocatalytic fuel cell for efficient wastewater treatment and electricity generation. Lab on A Chip, 2014, 14, 3368.	6.0	80
22	Dengue Virus Subverts Host Innate Immunity by Targeting Adaptor Protein MAVS. Journal of Virology, 2016, 90, 7219-7230.	3.4	79
23	Enhancement of microalgae production by embedding hollow light guides to a flat-plate photobioreactor. Bioresource Technology, 2016, 207, 31-38.	9.6	79
24	Hybrid solar-to-methane conversion system with a Faradaic efficiency of up to 96%. Nano Energy, 2018, 53, 232-239.	16.0	76
25	The role of machine learning to boost the bioenergy and biofuels conversion. Bioresource Technology, 2022, 343, 126099.	9.6	76
26	Air-breathing direct formic acid microfluidic fuel cell with an array ofÂcylinder anodes. Journal of Power Sources, 2014, 247, 346-353.	7.8	75
27	Microfluidic microbial fuel cells: from membrane to membrane free. Journal of Power Sources, 2016, 324, 113-125.	7.8	75
28	Integrating planar waveguides doped with light scattering nanoparticles into a flat-plate photobioreactor to improve light distribution and microalgae growth. Bioresource Technology, 2016, 220, 215-224.	9.6	75
29	Optofluidic membrane microreactor for photocatalytic reduction of CO 2. International Journal of Hydrogen Energy, 2016, 41, 2457-2465.	7.1	75
30	Life-cycle assessment of biohythane production via two-stage anaerobic fermentation from microalgae and food waste. Renewable and Sustainable Energy Reviews, 2019, 112, 395-410.	16.4	75
31	High-performance optofluidic membrane microreactor with a mesoporous CdS/TiO 2 /SBA-15@carbon paper composite membrane for the CO 2 photoreduction. Chemical Engineering Journal, 2017, 316, 911-918.	12.7	73
32	Long noncoding RNA LINC00673-v4 promotes aggressiveness of lung adenocarcinoma via activating WNT/Î²-catenin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14019-14028.	7.1	72
33	Electrodeposition of Pd catalyst layer on graphite rod electrodes for direct formic acid oxidation. Journal of Power Sources, 2012, 214, 277-284.	7.8	70
34	Overexpression of MACC1 and Its significance in human Breast Cancer Progression. Cell and Bioscience, 2013, 3, 16.	4.8	69
35	Centrifugal granulation performance of liquid with various viscosities for heat recovery of blast furnace slag. Applied Thermal Engineering, 2015, 89, 494-504.	6.0	69
36	Comparison of Chlorella vulgaris biomass productivity cultivated in biofilm and suspension from the aspect of light transmission and microalgae affinity to carbon dioxide. Bioresource Technology, 2016, 222, 367-373.	9.6	69

#	Article	IF	Citations
37	NLRP3 Inflammasome Activation Mediates Zika Virusâ€“Associated Inflammation. Journal of Infectious Diseases, 2018, 217, 1942-1951.	4.0	69
38	A three-dimensional nitrogen-doped graphene aerogel-activated carbon composite catalyst that enables low-cost microfluidic microbial fuel cells with superior performance. Journal of Materials Chemistry A, 2016, 4, 15913-15919.	10.3	68
39	Improving production of volatile fatty acids and hydrogen from microalgae and rice residue: Effects of physicochemical characteristics and mix ratios. Applied Energy, 2018, 230, 1082-1092.	10.1	68
40	High-performance gas-liquid-solid microreactor with polydopamine functionalized surface coated by Pd nanocatalyst for nitrobenzene hydrogenation. Chemical Engineering Journal, 2016, 306, 1017-1025.	12.7	67
41	Synthesizing MgO with a high specific surface for carbon dioxide adsorption. RSC Advances, 2015, 5, 30929-30935.	3.6	66
42	Persulfate: A self-activated cathodic electron acceptor for microbial fuel cells. Journal of Power Sources, 2009, 194, 269-274.	7.8	65
43	Cellular microRNA-miR-548g-3p modulates the replication of dengue virus. Journal of Infection, 2015, 70, 631-640.	3.3	63
44	Computational modeling of air-breathing microfluidic fuel cells with flow-over and flow-through anodes. Journal of Power Sources, 2014, 259, 15-24.	7.8	62
45	Performance characteristics of a membraneless solar responsive photocatalytic fuel cell with an air-breathing cathode under different fuels and electrolytes and air conditions. Electrochimica Acta, 2015, 182, 280-288.	5.2	62
46	Performance of a microfluidic microbial fuel cell based on graphite electrodes. International Journal of Hydrogen Energy, 2013, 38, 15710-15715.	7.1	60
47	Optimizing the gas distributor based on CO2 bubble dynamic behaviors to improve microalgal biomass production in an air-lift photo-bioreactor. Bioresource Technology, 2017, 233, 84-91.	9.6	60
48	Modeling of PEM Fuel Cell Catalyst Layers: Status and Outlook. Electrochemical Energy Reviews, 2019, 2, 428-466.	25.5	60
49	Photothermal trap with multi-scale micro-nano hierarchical structure enhances light absorption and promote photothermal anti-icing/deicing. Chemical Engineering Journal, 2022, 435, 135025.	12.7	58
50	Numerical simulation of emergence of a water droplet from a pore into a microchannel gas stream. Microfluidics and Nanofluidics, 2008, 4, 543-555.	2.2	57
51	Optofluidic Microreactors with TiO₂-Coated Fiberglass. ACS Applied Materials & Interfaces, 2013, 5, 12548-12553.	8.0	57
52	Dynamics of bubble formation and detachment from an immersed micro-orifice on a plate. International Journal of Heat and Mass Transfer, 2012, 55, 3205-3213.	4.8	56
53	Physiological-phased kinetic characteristics of microalgae Chlorella vulgaris growth and lipid synthesis considering synergistic effects of light, carbon and nutrients. Bioresource Technology, 2018, 250, 583-590.	9.6	56
54	Green and facile synthesis of iron oxide nanoparticle-embedded N-doped biocarbon as an efficient oxygen reduction electrocatalyst for microbial fuel cells. Chemical Engineering Journal, 2020, 385, 123393.	12.7	56

#	Article	IF	Citations
55	Neural progenitor cell pyroptosis contributes to Zika virus-induced brain atrophy and represents a therapeutic target. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23869-23878.	7.1	56
56	Triple-phase electrocatalysis for the enhanced CO2 reduction to HCOOH on a hydrophobic surface. Chemical Engineering Journal, 2021, 405, 126975.	12.7	56
57	DEPDC1B enhances migration and invasion of non-small cell lung cancer cells via activating Wnt/Î²-catenin signaling. Biochemical and Biophysical Research Communications, 2014, 450, 899-905.	2.1	55
58	Analogue experimental study on centrifugal-air blast granulation for molten slag. Applied Thermal Engineering, 2015, 88, 157-164.	6.0	55
59	A solar-driven continuous hydrothermal pretreatment system for biomethane production from microalgae biomass. Applied Energy, 2019, 236, 1011-1018.	10.1	55
60	Epidemiology characteristics of respiratory viruses found in children and adults with respiratory tract infections in southern China. International Journal of Infectious Diseases, 2014, 25, 159-164.	3.3	54
61	Temperature-independent polymer optical fiber evanescent wave sensor. Scientific Reports, 2015, 5, 11508.	3.3	54
62	Catalytic membrane microreactor with Pd/Î³-Al 2 O 3 coated PDMS film modified by dopamine for hydrogenation of nitrobenzene. Chemical Engineering Journal, 2016, 301, 35-41.	12.7	54
63	An optofluidic planar microreactor for photocatalytic reduction of CO2 in alkaline environment. Energy, 2017, 120, 276-282.	8.8	54
64	Startup cathode potentials determine electron transfer behaviours of biocathodes catalysing CO2 reduction to CH4 in microbial electrosynthesis. Journal of CO2 Utilization, 2020, 35, 169-175.	6.8	54
65	Energyâ€“environmentâ€“economy evaluations of commercial scale systems for blast furnace slag treatment: Dry slag granulation vs. water quenching. Applied Energy, 2016, 171, 314-324.	10.1	53
66	Simultaneous enhancement of Chlorella vulgaris growth and lipid accumulation through the synergy effect between light and nitrate in a planar waveguide flat-plate photobioreactor. Bioresource Technology, 2017, 243, 528-538.	9.6	53
67	Increased performance of a tubular microbial fuel cell with a rotating carbon-brush anode. Biosensors and Bioelectronics, 2015, 63, 558-561.	10.1	51
68	Enhanced biofilm distribution and cell performance of microfluidic microbial fuel cells with multiple anolyte inlets. Biosensors and Bioelectronics, 2016, 79, 406-410.	10.1	50
69	Carbene-Catalyzed Atroposelective Annulation and Desymmetrization of Urazoles. Organic Letters, 2021, 23, 3991-3996.	4.6	50
70	Crystallization properties of molten blast furnace slag at different cooling rates. Applied Thermal Engineering, 2016, 96, 432-440.	6.0	49
71	Effects of carbon cloth on anaerobic digestion of high concentration organic wastewater under various mixing conditions. Journal of Hazardous Materials, 2022, 423, 127100.	12.4	49
72	Meroterpenes and azaphilones from marine mangrove endophytic fungus Penicillium 303#. FÃ¬toterapÃ¬Ã¢, 2014, 97, 241-246.	2.2	48

#	Article	IF	Citations
73	Biodegradable branched cationic starch with high C/N ratio for Chlorella vulgaris cells concentration: Regulating microalgae flocculation performance by pH. Bioresource Technology, 2019, 276, 133-139.	9.6	48
74	Respective electrode potential characteristics of photocatalytic fuel cell with visible-light responsive photoanode and air-breathing cathode. International Journal of Hydrogen Energy, 2015, 40, 16547-16555.	7.1	47
75	An annular photobioreactor with ion-exchange-membrane for non-touch microalgae cultivation with wastewater. Bioresource Technology, 2016, 219, 668-676.	9.6	46
76	A green, cheap, high-performance carbonaceous catalyst derived from Chlorella pyrenoidosa for oxygen reduction reaction in microbial fuel cells. International Journal of Hydrogen Energy, 2017, 42, 27657-27665.	7.1	45
77	Gasâ€“liquidâ€“solid monolithic microreactor with Pd nanocatalyst coated on polydopamine modified nickel foam for nitrobenzene hydrogenation. Chemical Engineering Journal, 2018, 334, 1897-1904.	12.7	45
78	How can ethanol enhance direct interspecies electron transfer in anaerobic digestion?. Biotechnology Advances, 2021, 52, 107812.	11.7	45
79	Biofilm distribution and performance of microfluidic microbial fuel cells with different microchannel geometries. International Journal of Hydrogen Energy, 2015, 40, 11983-11988.	7.1	44
80	Nonsteroidal Anti-inflammatory Drugs Potently Inhibit the Replication of Zika Viruses by Inducing the Degradation of AXL. Journal of Virology, 2018, 92, .	3.4	44
81	EGF-induced nuclear localization of SHCBP1 activates Î²-catenin signaling and promotes cancer progression. Oncogene, 2019, 38, 747-764.	5.9	44
82	Enhancing fuel transport in air-breathing microfluidic fuel cells by immersed fuel micro-jet. Journal of Power Sources, 2020, 445, 227326.	7.8	44
83	Hybrid microbial photoelectrochemical system reduces CO2 to CH4 with 1.28% solar energy conversion efficiency. Chemical Engineering Journal, 2020, 390, 124530.	12.7	44
84	Life cycle and economic assessments of biogas production from microalgae biomass with hydrothermal pretreatment via anaerobic digestion. Renewable Energy, 2020, 151, 70-78.	8.9	43
85	A fractal model for determining oxygen effective diffusivity of gas diffusion layer under the dry and wet conditions. International Journal of Heat and Mass Transfer, 2011, 54, 4341-4348.	4.8	42
86	Granulation characteristics of molten blast furnace slag by hybrid centrifugal-air blast technique. Powder Technology, 2018, 323, 176-185.	4.2	42
87	Boosting Nannochloropsis oculata growth and lipid accumulation in a lab-scale open raceway pond characterized by improved light distributions employing built-in planar waveguide modules. Bioresource Technology, 2018, 249, 880-889.	9.6	42
88	Identification of a Novel Betacoronavirus (Merbecovirus) in Amur Hedgehogs from China. Viruses, 2019, 11, 980.	3.3	42
89	Zika virus antagonizes interferon response in patients and disrupts RIG-Iâ€“MAVS interaction through its CARD-TM domains. Cell and Bioscience, 2019, 9, 46.	4.8	42
90	Anodic current distribution in a liter-scale microbial fuel cell with electrode arrays. Chemical Engineering Journal, 2013, 223, 623-631.	12.7	41

#	Article	IF	Citations
91	Optimizing culture conditions for heterotrophic-assisted photoautotrophic biofilm growth of Chlorella vulgaris to simultaneously improve microalgae biomass and lipid productivity. Bioresource Technology, 2018, 270, 80-87.	9.6	41
92	Mass transfer in proton exchange membrane fuel cells with baffled flow channels and a porousâ€blocked baffled flow channel design. International Journal of Energy Research, 2019, 43, 2910-2929.	4.5	41
93	Enhancement of CO2 transfer and microalgae growth by perforated inverted arc trough internals in a flat-plate photobioreactor. Bioresource Technology, 2018, 269, 292-299.	9.6	40
94	A solar responsive photocatalytic fuel cell with the membrane electrode assembly design for simultaneous wastewater treatment and electricity generation. Journal of Hazardous Materials, 2018, 358, 346-354.	12.4	40
95	Metastatic Heterogeneity of Breast Cancer Cells Is Associated with Expression of a Heterogeneous TGFÎ²-Activating miR424â€“503 Gene Cluster. Cancer Research, 2014, 74, 6107-6118.	0.9	39
96	Crystallization Behaviors of Blast Furnace (BF) Slag in a Phase-Change Cooling Process. Energy & Fuels, 2016, 30, 3331-3339.	5.1	39
97	Exergy analyses of biogas production from microalgae biomass via anaerobic digestion. Bioresource Technology, 2019, 289, 121709.	9.6	39
98	MYEOV functions as an amplified competing endogenous RNA in promoting metastasis by activating TGF-Î² pathway in NSCLC. Oncogene, 2019, 38, 896-912.	5.9	39
99	ZIF-67-derived Co nanoparticles embedded in N-doped porous carbon composite interconnected by MWCNTs as highly efficient ORR electrocatalysts for a flexible direct formate fuel cell. Chemical Engineering Journal, 2022, 432, 134192.	12.7	39
100	A high-sensitivity fiber-optic evanescent wave sensor with a three-layer structure composed of Canada balsam doped with GeO2. Biosensors and Bioelectronics, 2016, 85, 876-882.	10.1	38
101	An RFC4/Notch1 signaling feedback loop promotes NSCLC metastasis and stemness. Nature Communications, 2021, 12, 2693.	12.8	38
102	Cold experiment of slag centrifugal granulation by rotary atomizer: Effect of atomizer configuration. Applied Thermal Engineering, 2017, 111, 1557-1564.	6.0	37
103	Rheological properties of microalgae slurry for application in hydrothermal pretreatment systems. Bioresource Technology, 2018, 249, 599-604.	9.6	37
104	A dual-functional three-dimensional herringbone-like electrode for a membraneless microfluidic fuel cell. Journal of Power Sources, 2019, 438, 227058.	7.8	37
105	Three-dimensional two-phase simulation of a unitized regenerative fuel cell during mode switching from electrolytic cell to fuel cell. Energy Conversion and Management, 2019, 195, 989-1003.	9.2	37
106	GO/PEDOT modified biocathodes promoting CO₂ reduction to CH₄ in microbial electrosynthesis. Sustainable Energy and Fuels, 2020, 4, 2987-2997.	4.9	37
107	Carbon cloth facilitates semi-continuous anaerobic digestion of organic wastewater rich in volatile fatty acids from dark fermentation. Environmental Pollution, 2021, 272, 116030.	7.5	37
108	Research status of centrifugal granulation, physical heat recovery and resource utilization of blast furnace slags. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105220.	5.5	36

#	Article	IF	Citations
109	A novel method for carbon removal and valuable metal recovery by incorporating steam into the reduction-roasting process of spent lithium-ion batteries. Waste Management, 2021, 134, 100-109.	7.4	36
110	Cytotoxic Naphthoâ€Î³â€pyrones from the Mangrove Endophytic Fungus Aspergillus tubingensis (GX1â€5E). Helvetica Chimica Acta, 2011, 94, 1732-1740.	1.6	35
111	Improvement on light penetrability and microalgae biomass production by periodically pre-harvesting Chlorella vulgaris cells with culture medium recycling. Bioresource Technology, 2016, 216, 669-676.	9.6	35
112	Revealing the synergistic effects of cells, pigments, and light spectra on light transfer during microalgae growth: A comprehensive light attenuation model. Bioresource Technology, 2022, 348, 126777.	9.6	34
113	Effects of brush lengths and fiber loadings on the performance of microbial fuel cells using graphite fiber brush anodes. International Journal of Hydrogen Energy, 2013, 38, 15646-15652.	7.1	33
114	Air-breathing microfluidic fuel cells with a cylinder anode operating in acidic and alkaline media. Electrochimica Acta, 2015, 177, 264-269.	5.2	33
115	Computational modeling of alkaline air-breathing microfluidic fuel cells with an array of cylinder anodes. Journal of Power Sources, 2015, 288, 150-159.	7.8	33
116	A woven thread-based microfluidic fuel cell with graphite rod electrodes. International Journal of Hydrogen Energy, 2018, 43, 22467-22473.	7.1	33
117	High surface area optofluidic microreactor for redox mediated photocatalytic water splitting. International Journal of Hydrogen Energy, 2014, 39, 19270-19276.	7.1	32
118	A simple method for preparing a binder-free paper-based air cathode for microbial fuel cells. Bioresource Technology, 2017, 241, 325-331.	9.6	32
119	Tube-in-tube hollow fiber catalytic membrane microreactor for the hydrogenation of nitrobenzene. Chemical Engineering Journal, 2018, 354, 35-41.	12.7	32
120	Two-phase computational modelling of a membraneless microfluidic fuel cell with a flow-through porous anode. Journal of Power Sources, 2019, 420, 88-98.	7.8	32
121	Copper Foam Electrodes for Increased Power Generation in Thermally Regenerative Ammonia-Based Batteries for Low-Grade Waste Heat Recovery. Industrial & Engineering Chemistry Research, 2019, 58, 7408-7415.	3.7	32
122	C19orf66 interrupts Zika virus replication by inducing lysosomal degradation of viral NS3. PLoS Neglected Tropical Diseases, 2020, 14, e0008083.	3.0	32
123	A Marine Anthraquinone SZ-685C Overrides Adriamycin-Resistance in Breast Cancer Cells through Suppressing Akt Signaling. Marine Drugs, 2012, 10, 694-711.	4.6	31
124	Anolyte recirculation effects in buffered and unbuffered single-chamber air-cathode microbial fuel cells. Bioresource Technology, 2015, 179, 26-34.	9.6	31
125	A micro photocatalytic fuel cell with an air-breathing, membraneless and monolithic design. Science Bulletin, 2016, 61, 1699-1710.	9.0	31
126	Numerical study on solidification behaviors of a molten slag droplet in the centrifugal granulation and heat recovery system. Applied Thermal Engineering, 2018, 130, 1033-1043.	6.0	31

#	Article	IF	Citations
127	Non-aqueous energy-efficient absorbents for CO2 capture based on porous silica nanospheres impregnated with amine. Energy, 2019, 171, 109-119.	8.8	31
128	High performance formic acid fuel cell benefits from Pdâ€“PdO catalyst supported by ordered mesoporous carbon. International Journal of Hydrogen Energy, 2020, 45, 29235-29245.	7.1	31
129	Effects of wettability on the growth of Scenedesmus obliquus biofilm attached on glass surface coated with polytetrafluoroethylene emulsion. International Journal of Hydrogen Energy, 2016, 41, 21728-21735.	7.1	30
130	Influence of the precursor on the porous structure and CO₂ adsorption characteristics of MgO. RSC Advances, 2016, 6, 19069-19077.	3.6	30
131	Cassie-to-Wenzel transition of droplet on the superhydrophobic surface caused by light induced evaporation. Applied Thermal Engineering, 2018, 144, 945-959.	6.0	30
132	Zika Virus Infection Induces Acute Kidney Injury Through Activating NLRP3 Inflammasome Via Suppressing Bcl-2. Frontiers in Immunology, 2019, 10, 1925.	4.8	30
133	Polarity reversal facilitates the development of biocathodes in microbial electrosynthesis systems for biogas production. International Journal of Hydrogen Energy, 2019, 44, 26226-26236.	7.1	30
134	A cascading gradient pore microstructured photoanode with enhanced photoelectrochemical and photocatalytic activities. Journal of Catalysis, 2016, 344, 411-419.	6.2	29
135	Effect of CO2 bubbles behaviors on microalgal cells distribution and growth in bubble column photobioreactor. International Journal of Hydrogen Energy, 2016, 41, 4879-4887.	7.1	28
136	Adsorption thermodynamic characteristics of Chlorella vulgaris with organic polymer adsorbent cationic starch: Effect of temperature on adsorption capacity and rate. Bioresource Technology, 2019, 293, 122056.	9.6	28
137	A solar responsive cubic nanosized CuS/Cu2O/Cu photocathode with enhanced photoelectrochemical activity. Journal of Catalysis, 2019, 372, 182-192.	6.2	28
138	Highly Flexible and Ultraprecise Manipulation of Light-Levitated Femtoliter/Picoliter Droplets. Journal of Physical Chemistry Letters, 2019, 10, 1068-1077.	4.6	28
139	Single-Stream H₂O₂ Membraneless Microfluidic Fuel Cell and Its Application as a Self-Powered Electrochemical Sensor. Industrial & Engineering Chemistry Research, 2020, 59, 15447-15453.	3.7	28
140	Minimizing mass transfer losses in microbial fuel cells: Theories, progresses and prospectives. Renewable and Sustainable Energy Reviews, 2021, 136, 110460.	16.4	28
141	A ternary hybrid CdS/SiO2/TiO2 photoanode with enhanced photoelectrochemical activity. Renewable Energy, 2018, 127, 524-530.	8.9	27
142	Performance of a thermally regenerative ammonia-based flow battery with 3D porous electrodes: Effect of reactor and electrode design. Electrochimica Acta, 2020, 331, 135442.	5.2	27
143	Lasiodiplodins from mangrove endophytic fungusLasiodiplodiasp. 318#. Natural Product Research, 2016, 30, 755-760.	1.8	26
144	A microfluidic all-vanadium photoelectrochemical cell for solar energy storage. Electrochimica Acta, 2017, 258, 842-849.	5.2	26

#	Article	IF	Citations
145	Application of growth-phase based light-feeding strategies to simultaneously enhance Chlorella vulgaris growth and lipid accumulation. Bioresource Technology, 2018, 256, 421-430.	9.6	26
146	Interaction of the Taylor flow behaviors and catalytic reaction inside a gas-liquid-solid microreactor under long-term operation. Chemical Engineering Science, 2018, 175, 175-184.	3.8	26
147	Layer-by-layer self-assembly of palladium nanocatalysts with polyelectrolytes grafted on the polydopamine functionalized gas-liquid-solid microreactor. Chemical Engineering Journal, 2018, 332, 174-182.	12.7	26
148	Liquid droplet movement on horizontal surface with gradient surface energy. Science in China Series D: Earth Sciences, 2006, 49, 733-741.	0.9	25
149	Tetravalent recombinant dengue virus-like particles as potential vaccine candidates: immunological properties. BMC Microbiology, 2014, 14, 233.	3.3	25
150	Experimental and theoretical study on dissolution of a single mixed gas bubble in a microalgae suspension. RSC Advances, 2015, 5, 32615-32625.	3.6	25
151	Startup Performance and Anodic Biofilm Distribution in Continuous-Flow Microbial Fuel Cells with Serpentine Flow Fields: Effects of External Resistance. Industrial & Engineering Chemistry Research, 2017, 56, 3767-3774.	3.7	25
152	A direct formate microfluidic fuel cell with cotton thread-based electrodes. International Journal of Hydrogen Energy, 2020, 45, 27665-27674.	7.1	25
153	Numerical investigation on phase change cooling and crystallization of a molten blast furnace slag droplet. International Journal of Heat and Mass Transfer, 2018, 118, 471-479.	4.8	24
154	Centrifugal granulation characteristics of molten blast furnace slag and performance of the granulated particles. Applied Thermal Engineering, 2018, 142, 683-694.	6.0	24
155	Cu/Ni composite electrodes for increased anodic coulombic efficiency and electrode operation time in a thermally regenerative ammonia-based battery for converting low-grade waste heat into electricity. Renewable Energy, 2020, 159, 162-171.	8.9	24
156	Boosting photo-biochemical conversion and carbon dioxide bio-fixation of Chlorella vulgaris in an optimized photobioreactor with airfoil-shaped deflectors. Bioresource Technology, 2021, 337, 125355.	9.6	24
157	URGCP promotes non-small cell lung cancer invasiveness by activating the NF-ÎºB-MMP-9 pathway. Oncotarget, 2015, 6, 36489-36504.	1.8	24
158	Hydrothermal hydrolysis of algal biomass for biofuels production: A review. Bioresource Technology, 2022, 344, 126213.	9.6	24
159	Enhanced hydrogen production by Rhodopseudomonas palustris CQK 01 with ultra-sonication pretreatment in batch culture. Bioresource Technology, 2011, 102, 8696-8699.	9.6	23
160	SOSTDC1 is down-regulated in non-small cell lung cancer and contributes to cancer cell proliferation. Cell and Bioscience, 2016, 6, 24.	4.8	23
161	Impact of the accumulation and adhesion of released oxygen during Scenedesmus obliquus photosynthesis on biofilm formation and growth. Bioresource Technology, 2017, 244, 198-205.	9.6	23
162	A membrane-less visible-light responsive micro photocatalytic fuel cell with the laterally-arranged CdS/ZnS-TiO2 photoanode and air-breathing CuO photocathode for simultaneous wastewater treatment and electricity generation. Separation and Purification Technology, 2019, 229, 115821.	7.9	23

#	Article	IF	Citations
163	Antibiotic fidaxomicin is an RdRp inhibitor as a potential new therapeutic agent against Zika virus. BMC Medicine, 2020, 18, 204.	5.5	23
164	Pore-scale modeling of oxygen transport in the catalyst layer of air-breathing cathode in membraneless microfluidic fuel cells. Applied Energy, 2020, 277, 115536.	10.1	23
165	Construction of a hierarchical porous surface composite electrode by dynamic hydrogen bubble template electrodeposition for ultrahigh-performance thermally regenerative ammonia-based batteries. Chemical Engineering Journal, 2021, 423, 130339.	12.7	23
166	Effect of proton transfer on the performance of unbuffered tubular microbial fuel cells in continuous flow mode. International Journal of Hydrogen Energy, 2015, 40, 3953-3960.	7.1	22
167	A monolithic air cathode derived from bamboo for microbial fuel cells. RSC Advances, 2017, 7, 28469-28475.	3.6	22
168	A microfluidic all-vanadium photoelectrochemical cell with multi-nanostructured TiO2 photoanode. Journal of Power Sources, 2018, 404, 1-6.	7.8	22
169	Rheological properties of microalgae slurry under subcritical conditions for hydrothermal hydrolysis systems. Algal Research, 2018, 33, 78-83.	4.6	22
170	A ternary hybrid CuS/Cu2O/Cu nanowired photocathode for photocatalytic fuel cell. Journal of Power Sources, 2019, 435, 226766.	7.8	22
171	Epidemiological characteristics and phylogenic analysis of human respiratory syncytial virus in patients with respiratory infections during 2011â€“2016 in southern China. International Journal of Infectious Diseases, 2020, 90, 5-17.	3.3	22
172	A self-pumping microfluidic fuel cell powered by formate with Pd coated carbon cloth electrodes. Journal of Power Sources, 2021, 490, 229553.	7.8	22
173	Domesticating Chlorella vulgaris with gradually increased the concentration of digested piggery wastewater to bio-remove ammonia nitrogen. Algal Research, 2021, 60, 102526.	4.6	22
174	Response of anodic biofilm and the performance of microbial fuel cells to different discharging current densities. Bioresource Technology, 2017, 233, 1-6.	9.6	21
175	Poison tolerance of non-precious catalyst towards oxygen reduction reaction. International Journal of Hydrogen Energy, 2018, 43, 8474-8479.	7.1	21
176	Hydrothermal hydrolysis pretreatment of microalgae slurries in a continuous reactor under subcritical conditions for largeâ€“scale application. Bioresource Technology, 2018, 266, 306-314.	9.6	21
177	A microfluidic all-vanadium photoelectrochemical cell with the N-doped TiO2 photoanode for enhancing the solar energy storage. Journal of Power Sources, 2019, 419, 162-170.	7.8	21
178	Cyclic voltammetry electrodeposition of well-dispersed Pd nanoparticles on carbon paper as a flow-through anode for microfluidic direct formate fuel cells. Nanoscale, 2020, 12, 20270-20278.	5.6	21
179	Degradation and transformation of furfural derivatives from hydrothermal pre-treated algae and lignocellulosic biomass during hydrogen fermentation. Renewable and Sustainable Energy Reviews, 2020, 131, 109983.	16.4	21
180	Discrete-holes film fueling anode heads for high performance air-breathing microfluidic fuel cell. Journal of Power Sources, 2021, 482, 228966.	7.8	21

#	Article	IF	Citations
181	Structure design of 3D hierarchical porous anode for high performance microbial fuel cells: From macro-to micro-scale. Journal of Power Sources, 2021, 516, 230687.	7.8	21
182	Dynamic behaviors of CO2 bubbles coalescing at two parallel capillary orifices in microalgae suspension. International Journal of Heat and Mass Transfer, 2015, 90, 1001-1008.	4.8	20
183	A novel self-adaptive microalgae photobioreactor using anion exchange membranes for continuous supply of nutrients. Bioresource Technology, 2016, 214, 629-636.	9.6	20
184	Uneven biofilm and current distribution in three-dimensional macroporous anodes of bio-electrochemical systems composed of graphite electrode arrays. Bioresource Technology, 2017, 228, 25-30.	9.6	20
185	Heat and mass transfer in a unitized regenerative fuel cell during mode switching. International Journal of Energy Research, 2019, 43, 2678-2693.	4.5	20
186	A membraneless microfluidic fuel cell with continuous multistream flow through cotton threads. International Journal of Energy Research, 2020, 44, 2243-2251.	4.5	20
187	Deep insight into phase transition and crystallization of high temperature molten slag during cooling: A review. Applied Thermal Engineering, 2021, 184, 116260.	6.0	20
188	Customizable design strategies for high-performance bioanodes in bioelectrochemical systems. IScience, 2021, 24, 102163.	4.1	20
189	Flexible enzymatic biofuel cell based on 1, 4-naphthoquinone/MWCNT-Modified bio-anode and polyvinyl alcohol hydrogel electrolyte. Biosensors and Bioelectronics, 2022, 198, 113833.	10.1	20
190	Thermoresponsive Surfaces Grafted by Shrinkable Hydrogel Poly(N-isopropylacrylamide) for Controlling Microalgae Cells Adhesion during Biofilm Cultivation. Environmental Science & Technology, 2021, 55, 1178-1189.	10.0	19
191	Optimization of inner diameter of tubular bamboo charcoal anode for a microbial fuel cell. International Journal of Hydrogen Energy, 2014, 39, 19242-19248.	7.1	18
192	Dynamic behaviour of the CO2 bubble in a bubble column bioreactor for microalgal cultivation. Clean Technologies and Environmental Policy, 2016, 18, 2039-2047.	4.1	18
193	Biofuel production from wet microalgae biomass: Comparison of physicochemical properties and extraction performance. Energy, 2020, 212, 118581.	8.8	18
194	A flexible on-fiber H2O2 microfluidic fuel cell with high power density. International Journal of Hydrogen Energy, 2022, 47, 4793-4803.	7.1	18
195	Novel Superaerophobic Anode with Fernâ€Shaped Pd Nanoarray for Highâ€Performance Direct Formic Acid Fuel Cell. Advanced Functional Materials, 2022, 32, .	14.9	18
196	Epidemiologic investigation of a family cluster of imported ZIKV cases in Guangdong, China: probable human-to-human transmission. Emerging Microbes and Infections, 2016, 5, 1-7.	6.5	17
197	Enhanced current production of the anode modified by microalgae derived nitrogen-rich biocarbon for microbial fuel cells. International Journal of Hydrogen Energy, 2020, 45, 3833-3839.	7.1	17
198	3-D printed gradient porous composite electrodes improve anodic current distribution and performance in thermally regenerative flow battery for low-grade waste heat recovery. Journal of Power Sources, 2020, 473, 228525.	7.8	17

#	Article	IF	Citations
199	Film fragmentation mode: The most suitable way for centrifugal granulation of large flow rate molten blast slag towards high-efficiency waste heat recovery for industrialization. Applied Energy, 2020, 276, 115454.	10.1	17
200	Sustainable biohythane production from algal bloom biomass through two-stage fermentation: Impacts of the physicochemical characteristics and fermentation performance. International Journal of Hydrogen Energy, 2020, 45, 34461-34472.	7.1	17
201	Optofluidics-Based Membrane Microreactor for Wastewater Treatment by Photocatalytic Ozonation. Industrial & Engineering Chemistry Research, 2016, 55, 8627-8635.	3.7	16
202	Enhancing fermentative hydrogen production with the removal of volatile fatty acids by electrodialysis. Bioresource Technology, 2018, 263, 437-443.	9.6	16
203	Hierarchical Pd@Ni catalyst with a snow-like nanostructure on Ni foam for nitrobenzene hydrogenation. Applied Catalysis A: General, 2019, 575, 238-245.	4.3	16
204	Parametric study of biocathodes in microbial electrosynthesis for CO2 reduction to CH4 with a direct electron transfer pathway. Renewable Energy, 2020, 162, 438-446.	8.9	16
205	Current density distribution in air-breathing microfluidic fuel cells with an array of graphite rod anodes. International Journal of Hydrogen Energy, 2021, 46, 2960-2968.	7.1	16
206	Route towards high-performance microfluidic fuel cells: a review. Sustainable Energy and Fuels, 2021, 5, 2840-2859.	4.9	16
207	A new heat supply strategy for CO2 capture process based on the heat recovery from turbine exhaust steam in a coal-fired power plant. Energy, 2022, 239, 121817.	8.8	16
208	Biomass waste-derived hierarchical porous composite electrodes for high-performance thermally regenerative ammonia-based batteries. Journal of Power Sources, 2022, 517, 230719.	7.8	16
209	The Anthraquinone Derivatives from the Fungus Alternaria sp. XZSBG-1 from the Saline Lake in Bange, Tibet, China. Molecules, 2014, 19, 16529-16542.	3.8	15
210	A micro membrane-less photoelectrochemical cell for hydrogen and electricity generation in the presence of methanol. Electrochimica Acta, 2017, 245, 549-560.	5.2	15
211	Simulation on the dynamic flow and heat and mass transfer of a liquid column induced by the IR laser photothermal effect actuated evaporation in a microchannel. International Journal of Heat and Mass Transfer, 2017, 113, 975-983.	4.8	15
212	Phase evolution of blast furnace slags with variation in the binary basicity in a variable cooling process. Fuel, 2018, 219, 132-140.	6.4	15
213	Lnc<scp>RNA DUXAP</scp>9â€206 directly binds with Cblâ€b to augment <scp>EGFR</scp> signaling and promotes nonâ€small cell lung cancer progression. Journal of Cellular and Molecular Medicine, 2019, 23, 1852-1864.	3.6	15
214	Improving the electric performance of a unitized regenerative fuel cell during mode switching through mass transfer enhancement. Energy Conversion and Management, 2019, 188, 27-39.	9.2	15
215	Applying artificial neural network to predict the viscosity of microalgae slurry in hydrothermal hydrolysis process. Energy and AI, 2021, 4, 100053.	10.6	15
216	Life cycle and economic analysis of chemicals production via electrolytic (bi)carbonate and gaseous CO2 conversion. Applied Energy, 2021, 304, 117768.	10.1	15

#	Article	IF	Citations
217	Effect of wettability of anode microporous layer on performance and operation duration of passive air-breathing direct methanol fuel cells. Journal of Applied Electrochemistry, 2009, 39, 1771-1778.	2.9	14
218	Solid simultaneous saccharification and fermentation of rice straw for bioethanol production using nitrogen gas stripping. RSC Advances, 2015, 5, 55328-55335.	3.6	14
219	Downregulation of VEGF and upregulation of TL1A expression induce HUVEC apoptosis in response to high glucose stimuli. Molecular Medicine Reports, 2016, 13, 3265-3272.	2.4	14
220	Experimental study on the durability of the polydopamine functionalized gasâ€“liquidâ€“solid microreactor for nitrobenzene hydrogenation. RSC Advances, 2018, 8, 5661-5669.	3.6	14
221	Droplet Evaporation on a Hydrophobic Photothermal Conversion Substrate. Industrial & Engineering Chemistry Research, 2021, 60, 3758-3769.	3.7	14
222	Activated Carbon Facilitates Anaerobic Digestion of Furfural Wastewater: Effect of Direct Interspecies Electron Transfer. ACS Sustainable Chemistry and Engineering, 2022, 10, 8206-8215.	6.7	14
223	Midline2 is overexpressed and a prognostic indicator in human breast cancer and promotes breast cancer cell proliferation in vitro and in vivo. Frontiers of Medicine, 2016, 10, 41-51.	3.4	13
224	Astrocyte Elevated Gene 1 Interacts with Acetyltransferase p300 and c-Jun To Promote Tumor Aggressiveness. Molecular and Cellular Biology, 2017, 37, .	2.3	13
225	Phase Change Cooling and Crystallization Characteristics of Blast Furnace Slags with Various MgO/Al₂O₃ Ratios. Energy & Fuels, 2017, 31, 10212-10221.	5.1	13
226	Rheokinetics of microalgae slurry during hydrothermal pretreatment processes. Bioresource Technology, 2019, 289, 121650.	9.6	13
227	Light-actuated droplets coalescence and ion detection on the CAHTs-assisted superhydrophobic surface. Sensors and Actuators B: Chemical, 2019, 282, 469-481.	7.8	13
228	Experimental visualization and theoretical analysis of the dynamic impact behavior of a molten blast furnace slag droplet on different surfaces. Applied Thermal Engineering, 2019, 147, 1-9.	6.0	13
229	Performance of a Thermally Regenerative Battery with 3D-Printed Cu/C Composite Electrodes: Effect of Electrode Pore Size. Industrial & Engineering Chemistry Research, 2020, 59, 21286-21293.	3.7	13
230	Predicting the interaction between nanoparticles in shear flow using lattice Boltzmann method and Derjaguinâ€“Landauâ€“Verweyâ€“Overbeek (DLVO) theory. Physics of Fluids, 2020, 32, .	4.0	13
231	In situ visualization of biofilm formation in a microchannel for a microfluidic microbial fuel cell anode. International Journal of Hydrogen Energy, 2021, 46, 14651-14658.	7.1	13
232	Pore-scale modeling of mass transport in the air-breathing cathode of membraneless microfluidic fuel cells. International Journal of Heat and Mass Transfer, 2022, 188, 122590.	4.8	13
233	Performance of liter-scale microbial fuel cells with electrode arrays: Effect of array pattern. International Journal of Hydrogen Energy, 2013, 38, 15716-15722.	7.1	12
234	IR laser caused droplet evaporation on the hydrophobic surface. International Journal of Heat and Mass Transfer, 2016, 94, 180-190.	4.8	12

#	Article	IF	Citations
235	Boosting power density of microfluidic biofuel cell with porous three-dimensional graphene@nickel foam as flow-through anode. International Journal of Hydrogen Energy, 2018, 43, 18516-18520.	7.1	12
236	A visible-light responsive micro photocatalytic fuel cell with laterally arranged electrodes. Applied Thermal Engineering, 2018, 143, 193-199.	6.0	12
237	Simulation on the Marangoni flow and heat transfer in a laser-heated suspended droplet. Chemical Engineering Science, 2019, 209, 115202.	3.8	12
238	Convective heat transfer characteristics of microalgae slurries in a circular tube flow. International Journal of Heat and Mass Transfer, 2019, 137, 823-834.	4.8	12
239	Dynamic behaviors and regime map of a molten blast furnace slag droplet impacting a solid surface. Fuel, 2020, 279, 118451.	6.4	12
240	Deep neural model with self-training for scientific keyphrase extraction. PLoS ONE, 2020, 15, e0232547.	2.5	12
241	Epidemiological characteristics of respiratory viruses in patients with acute respiratory infections during 2009â€“2018 in southern China. International Journal of Infectious Diseases, 2020, 98, 21-32.	3.3	12
242	Analysis of the energy barrier between Chlorella vulgaris cells and their interfacial interactions with cationic starch under different pH and ionic strength. Bioresource Technology, 2020, 304, 123012.	9.6	12
243	How can hydrothermal treatment impact the performance of continuous two-stage fermentation for hydrogen and methane co-generation?. International Journal of Hydrogen Energy, 2021, 46, 14045-14062.	7.1	12
244	A high power density paper-based zincâ€“air battery with a hollow channel structure. Chemical Communications, 2021, 57, 1258-1261.	4.1	12
245	Flipped Quick-Response Code Enables Reliable Blood Grouping. ACS Nano, 2021, 15, 7649-7658.	14.6	12
246	Droplet Migration and Coalescence in a Microchannel Induced by the Photothermal Effect of a Focused Infrared Laser. Industrial & Engineering Chemistry Research, 2021, 60, 1912-1925.	3.7	12
247	Synergetic Photo-Thermo Catalytic Hydrogen Production by Carbon Materials. Journal of Physical Chemistry Letters, 2022, 13, 1602-1608.	4.6	12
248	Experimental Studies of Liquid Droplet Coalescence onÂtheÂGradient Surface. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1165-1168.	1.8	11
249	A membrane electrode assembled photoelectrochemical cell with a solar-responsive cadmium sulfide-zinc sulfide-titanium dioxide/mesoporous silica photoanode. Journal of Power Sources, 2017, 371, 96-105.	7.8	11
250	On the centrifugal granulation characteristics by rotary disk: Effect of outer edge structure. Applied Thermal Engineering, 2019, 159, 113977.	6.0	11
251	Core-shell structured Pd catalyst layer encapsulated by polydopamine for a gas-liquid-solid microreactor. Applied Surface Science, 2019, 487, 416-425.	6.1	11
252	Sea cucumber extract TBLâ€12 inhibits the proliferation, migration, and invasion of human prostate cancer cells through the p38 mitogenâ€activated protein kinase and intrinsic caspase apoptosis pathway. Prostate, 2019, 79, 826-839.	2.3	11

#	Article	IF	Citations
253	Simple Method for Directly Synthesizing Ag Nanoparticles with Silver Ammonia and Polydopamine in a Microreactor toward the Conversion of 4-NP to 4-AP. Industrial & Engineering Chemistry Research, 2020, 59, 16205-16216.	3.7	11
254	Dynamic behaviors and charge characteristics of droplet in a vertical electric field before bouncing. Experimental Thermal and Fluid Science, 2020, 119, 110213.	2.7	11
255	Catalytic Membrane Microreactors with an Ultrathin Freestanding Membrane for Nitrobenzene Hydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 9806-9813.	8.0	11
256	Numerical investigation of laminar mixed convection of microalgae slurry flowing in a solar collector. Applied Thermal Engineering, 2020, 175, 115366.	6.0	11
257	Light-Fueled Beating Coffee-Ring Deposition for Droplet Evaporative Crystallization. Analytical Chemistry, 2021, 93, 8817-8825.	6.5	11
258	Solar energy storage by a microfluidic all-vanadium photoelectrochemical flow cell with self-doped TiO2 photoanode. Journal of Energy Storage, 2021, 43, 103228.	8.1	11
259	Filter paper membrane based microfluidic fuel cells: Toward next-generation miniaturized and low cost power supply. International Journal of Hydrogen Energy, 2022, 47, 15065-15073.	7.1	11
260	Oxygen self-doping formicary-like electrocatalyst with ultrahigh specific surface area derived from waste pitaya peels for high-yield H2O2 electrosynthesis and efficient electro-Fenton degradation. Separation and Purification Technology, 2022, 289, 120687.	7.9	11
261	Role of defects and oxygen-functional groups in carbon paper cathode for high-performance direct liquid fuel cells. Carbon, 2022, 192, 170-178.	10.3	11
262	Loss of ATF4 leads to functional aging-like attrition of adult hematopoietic stem cells. Science Advances, 2021, 7, eabj6877.	10.3	11
263	Enterovirus 71 Neutralizing Antibodies Seroepidemiological Research among Children in Guangzhou, China between 2014 and 2015: A Cross-Sectional Study. International Journal of Environmental Research and Public Health, 2017, 14, 319.	2.6	10
264	Control of the droplet generation by an infrared laser. AIP Advances, 2018, 8, .	1.3	10
265	Novel genetically stable infectious clone for a Zika virus clinical isolate and identification of RNA elements essential for virus production. Virus Research, 2018, 257, 14-24.	2.2	10
266	Inhibitory effects of furfural and vanillin on two-stage gaseous biofuel fermentation. Fuel, 2019, 252, 350-359.	6.4	10
267	pH response of zwitterionic polydopamine layer to palladium deposition in the microchannel. Chemical Engineering Journal, 2019, 356, 282-291.	12.7	10
268	Numerical study of flow and heat transfer characteristics of microalgae slurry in a solar-driven hydrothermal pretreatment system. Applied Thermal Engineering, 2020, 164, 114476.	6.0	10
269	Anion-Exchange Membrane Electrode Assembled Photoelectrochemical Cell with a Visible Light Responsive Photoanode for Simultaneously Treating Wastewater and Generating Electricity. Industrial & Engineering Chemistry Research, 2020, 59, 137-145.	3.7	10
270	Feâ€“N-doped carbon nanoparticles from coal tar soot and its novel application as a high performance air-cathode catalyst for microbial fuel cells. Electrochimica Acta, 2020, 363, 137177.	5.2	10

#	Article	IF	Citations
271	Effect of operating parameters on the performance of thermally regenerative ammonia-based battery for low-temperature waste heat recovery. Chinese Journal of Chemical Engineering, 2021, 32, 335-340.	3.5	10
272	Direct Formate/Persulfate Microfluidic Fuel Cell with a Catalyst-Free Cathode and High Power Density. ACS Sustainable Chemistry and Engineering, 2021, 9, 5623-5630.	6.7	10
273	A fluidized-bed reactor for enhanced mass transfer and increased performance in thermally regenerative batteries for low-grade waste heat recovery. Journal of Power Sources, 2021, 495, 229815.	7.8	10
274	Kinetics of hydrolysis of microalgae biomass during hydrothermal pretreatment. Biomass and Bioenergy, 2021, 149, 106074.	5.7	10
275	Enhanced gas removal and cell performance of a microfluidic fuel cell by a paper separator embedded in the microchannel. Energy, 2022, 239, 122098.	8.8	10
276	How Interfacial Properties Affect Adhesion: An Analysis from the Interactions between Microalgal Cells and Solid Substrates. Langmuir, 2022, 38, 3284-3296.	3.5	10
277	How does the electric field make a droplet exhibit the ejection and rebound behaviour on a superhydrophobic surface?. Journal of Fluid Mechanics, 2022, 941, .	3.4	10
278	Accelerated bubble growth and departure by bioinspired gradient anode in microfluidic fuel cells. Electrochimica Acta, 2022, 424, 140618.	5.2	10
279	Childrenâ€™s Caregivers and Public Playgrounds: Potential Reservoirs of Infection of Hand-foot-and-mouth Disease. Scientific Reports, 2016, 6, 36375.	3.3	9
280	Step-feed strategy enhances performance of unbuffered air-cathode microbial fuel cells. RSC Advances, 2017, 7, 33961-33966.	3.6	9
281	Investigating the Composition of Iron Salts on the Performance of Microfluidic Fuel Cells. Industrial & Engineering Chemistry Research, 2018, 57, 1756-1762.	3.7	9
282	Prediction on crystallization behaviors of blast furnace slag in a phase change cooling process with corrected optical basicity. Fuel, 2018, 223, 360-365.	6.4	9
283	Simultaneous enhancing the sedimentation and adsorption performance of Chlorella vulgaris with montmorillonite modified cationic starch. Biochemical Engineering Journal, 2020, 164, 107785.	3.6	9
284	Light-Caused Droplet Bouncing from a Cavity Trap-Assisted Superhydrophobic Surface. Langmuir, 2020, 36, 11068-11078.	3.5	9
285	A 3D oriented CuS/Cu₂O/Cu nanowire photocathode. Journal of Materials Chemistry A, 2021, 9, 6971-6980.	10.3	9
286	New insights into the role of CO2 in a photocatalytic fuel cell. Journal of Power Sources, 2021, 487, 229438.	7.8	9
287	Bubble-trap layer for effective removing gas bubbles and stabilizing power generation in direct liquid fuel cell. Journal of Power Sources, 2021, 507, 230260.	7.8	9
288	Application of bubble carrying to Chlorella vulgaris flocculation with branched cationic starch: An efficient and economical harvesting method for biofuel production. Energy Conversion and Management, 2020, 213, 112833.	9.2	9

#	Article	IF	Citations
289	Reduced graphene oxide modified activated carbon for improving power generation of air-cathode microbial fuel cells. Journal of Materials Research, 2018, 33, 1279-1287.	2.6	8
290	Electricity generation of a laminar-flow microbial fuel cell without any additional power supply. RSC Advances, 2018, 8, 33637-33641.	3.6	8
291	Multilayered Pd nanocatalysts with nano-bulge structure in a microreactor for multiphase catalytic reaction. Chemical Engineering Research and Design, 2018, 138, 190-199.	5.6	8
292	Drag reduction and shear-induced cells migration behavior of microalgae slurry in tube flow. Bioresource Technology, 2018, 270, 38-45.	9.6	8
293	A novel structured foam microreactor with controllable gas and liquid flow paths: Hydrodynamics and nitrobenzene conversion. Chemical Engineering Science, 2021, 229, 116004.	3.8	8
294	Self-doped TiO2 nanotube array photoanode for microfluidic all-vanadium photoelectrochemical flow battery. Journal of Electroanalytical Chemistry, 2021, 897, 115598.	3.8	8
295	Spontaneous Imbibition in Paper-Based Microfluidic Devices: Experiments and Numerical Simulations. Langmuir, 2022, 38, 2677-2685.	3.5	8
296	An environmentally friendly gradient treatment system of copper-containing wastewater by coupling thermally regenerative battery and electrodeposition cell. Separation and Purification Technology, 2022, 295, 121243.	7.9	8
297	Numerical Simulation on Coalescence Between a Pair of Drops onÂHomogeneous Horizontal Surface with Volume-of-Fluid Method. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1137-1140.	1.8	7
298	Characteristics of the IR Laser Photothermally Induced Phase Change in Microchannels with Different Depths. Industrial & Engineering Chemistry Research, 2016, 55, 8450-8459.	3.7	7
299	Pulsating flow triggered by the laser induced phase change in microchannels with sawtooth-shaped baffles. Sensors and Actuators B: Chemical, 2018, 260, 1018-1024.	7.8	7
300	Visualization of two-phase reacting flow behavior in a gasâ€“liquidâ€“solid microreactor. Reaction Chemistry and Engineering, 2019, 4, 715-723.	3.7	7
301	Gas consumption characteristics determined by gas-liquid two-phase flow coupled with catalytic reaction in a gas-liquid-solid microreactor. International Journal of Heat and Mass Transfer, 2019, 135, 897-906.	4.8	7
302	Tumourâ€associated macrophages as a novel target of VEGIâ€251 in cancer therapy. Journal of Cellular and Molecular Medicine, 2020, 24, 7884-7895.	3.6	7
303	Polydopamine inspired dual-functional templates to prepare photoanode with enhanced photoelectrochemical activity. Journal of Power Sources, 2021, 496, 229831.	7.8	7
304	A synchronous photoautotrophic-heterotrophic biofilm cultivation mode for Chlorella vulgaris biomass and lipid simultaneous accumulation. Journal of Cleaner Production, 2022, 336, 130453.	9.3	7
305	Comparative life cycle and economic assessments of various value-added chemicals' production via electrochemical CO₂ reduction. Green Chemistry, 2022, 24, 2927-2936.	9.0	7
306	Lightâ€Fueled Submarineâ€Like Droplet. Advanced Science, 2022, 9, .	11.2	7

#	Article	IF	Citations
307	Kinetics of light assisted catalytic reduction of 4-NP over Ag/PDA. Chemical Engineering Science, 2022, 259, 117778.	3.8	7
308	A self-recirculation electrolyte system for unbuffered microbial fuel cells with an aerated cathode. Bioresource Technology, 2017, 241, 1173-1177.	9.6	6
309	Improved performance of microbial fuel cells using a gradient porous air cathode: An experiment and simulation study. Bioelectrochemistry, 2019, 130, 107335.	4.6	6
310	Effect of geometrical configurations on alkaline air-breathing membraneless microfluidic fuel cells with cylinder anodes. Science China Technological Sciences, 2019, 62, 388-396.	4.0	6
311	Maximum spread of droplets on chemically striped surfaces. AICHE Journal, 2020, 66, e16774.	3.6	6
312	Modeling for thermal hydrolysis of microalgae slurry in tubular reactor: microalgae cell migration flow and heat transfer effects. Applied Thermal Engineering, 2020, 180, 115784.	6.0	6
313	Stacked Catalytic Membrane Microreactor for Nitrobenzene Hydrogenation. Industrial & Engineering Chemistry Research, 2020, 59, 9469-9477.	3.7	6
314	In situ formed graphene nanosheets enhance bidirectional electron transfer in bioelectrochemical systems. Sustainable Energy and Fuels, 2020, 4, 2386-2395.	4.9	6
315	Performance of a thermally regenerative ammonia-based battery using gradient-porous copper foam electrodes. Science China Technological Sciences, 2021, 64, 696-704.	4.0	6
316	Electricity generation and electrochemical insight of zinc-air battery via microfluidic flow control. Chemical Engineering Journal, 2022, 429, 132198.	12.7	6
317	Engineering a concordant microenvironment with air-liquid-solid interface to promote electrochemical H2O2 generation and wastewater purification. Separation and Purification Technology, 2022, 297, 121527.	7.9	6
318	Molecular dynamics simulation of injection of polyethylene fluid in a variable cross-section nano-channel. Science Bulletin, 2011, 56, 1848-1856.	1.7	5
319	Lattice Boltzmann simulation on liquid flow and mass transport in a bioreactor with cylinder bundle for hydrogen production. Heat and Mass Transfer, 2015, 51, 859-873.	2.1	5
320	Numerical study of water droplets impacting on cylindrical heat transfer pipes. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 598-610.	3.1	5
321	Effects of Operational Parameters on Biofilm Formation of Mixed Bacteria for Hydrogen Fermentation. Sustainability, 2020, 12, 8863.	3.2	5
322	Pore engineering of graphene aerogels for vanadium redox flow batteries. Chemical Communications, 2020, 56, 14984-14987.	4.1	5
323	Controllable light-induced droplet evaporative crystallization. Soft Matter, 2021, 17, 8730-8741.	2.7	5
324	Hydration Activation of MgO Pellets for CO₂ Adsorption. Industrial & Engineering Chemistry Research, 2021, 60, 5310-5318.	3.7	5

#	Article	IF	Citations
325	A Novel Stacked Rotary Cup Atomizer Toward Efficient Centrifugal Granulation of Molten Blast Furnace Slag. Steel Research International, 2021, 92, 2100207.	1.8	5
326	Micro-object manipulation by decanol liquid lenses. Lab on A Chip, 2022, 22, 2844-2852.	6.0	5
327	Numerical Simulation of Light/Dark Cycle Frequency of Microalgae Fluid in a Helical Tubular Photobioreactor for Carbon Dioxide Capture. International Journal of Green Energy, 2015, 12, 1037-1045.	3.8	4
328	IR laser induced phase change behaviors of the NaCl solution in the microchannel. Chemical Engineering Science, 2018, 187, 318-326.	3.8	4
329	Synergistic effect of Pd content and polyelectrolyte multilayer structure on nitrobenzene hydrogenation in a microreactor. RSC Advances, 2019, 9, 23560-23569.	3.6	4
330	In Situ Synthesis of a Multilayered (PSS-PAH-Pd)_n Catalytic Hybrid Film Synthesized by the Layer-by-Layer Self-Assembly. Industrial & Engineering Chemistry Research, 2019, 58, 9038-9047.	3.7	4
331	Solar fuel production from CO2 reduction in a self-biased hybrid solar-microbial device. Applied Energy, 2020, 279, 115821.	10.1	4
332	Preparation of a Catalyst Layer by Layer-by-Layer Self-Assembly for Plate-Type Catalytic Membrane Microreactors. Industrial & Engineering Chemistry Research, 2020, 59, 15865-15874.	3.7	4
333	Photothermal reduction of 4-nitrophenol to 4-aminophenol using silver/polydopamine catalysts. Journal of Environmental Chemical Engineering, 2022, 10, 108253.	6.7	4
334	An MFC capable of regenerating the cathodic electron acceptor under sunlight. Science China Technological Sciences, 2010, 53, 2489-2494.	4.0	3
335	Characterization of the start-up behavior and steady-state performance of biotrickling filter removing low concentration toluene waste gas. Science China Technological Sciences, 2012, 55, 1701-1710.	4.0	3
336	Estimation of Surface Heat Flux and Surface Temperature during Inverse Heat Conduction under Varying Spray Parameters and Sample Initial Temperature. Scientific World Journal, The, 2014, 2014, 1-13.	2.1	3
337	Electricity production of a microbial fuel cell stack integrated into a sink drain pipe. Research on Chemical Intermediates, 2016, 42, 7689-7700.	2.7	3
338	Reduction of Formate Crossover in Sequential-Flow Microfluidic Fuel Cells. Industrial & Engineering Chemistry Research, 2021, 60, 1526-1531.	3.7	3
339	Photothermally Caused Propylene Glycolâ€“Water Binary Droplet Evaporation on a Hydrophobic Surface. Industrial & Engineering Chemistry Research, 2021, 60, 4153-4167.	3.7	3
340	Light fueled mixing in open surface droplet microfluidics for rapid probe preparation. Physical Chemistry Chemical Physics, 2021, 23, 26356-26365.	2.8	3
341	Dynamic two-phase flow behaviors in permeable network integrated with microchannel. Applied Thermal Engineering, 2022, , 118639.	6.0	3
342	Light Droplet Levitation in Relation to Interface Morphology and Liquid Property. Journal of Physical Chemistry Letters, 2022, 13, 4762-4767.	4.6	3

#	Article	IF	Citations
343	A New Terminal Cyano Group-containing Benzodiazepine Alkaloid from the Mangrove Endophytic Fungus Penicillium sp. Natural Product Communications, 2015, 10, 1934578X1501000.	0.5	2
344	Locomotion of bacteria in liquid flow and the boundary layer effect on bacterial attachment. Biochemical and Biophysical Research Communications, 2015, 461, 671-676.	2.1	2
345	Structured Niâ€“B amorphous alloy catalysts on Ni foam for a gasâ€“liquidâ€“solid microreactor. Catalysis Science and Technology, 2020, 10, 1933-1940.	4.1	2
346	Keyphrase Generation With CopyNet and Semantic Web. IEEE Access, 2020, 8, 44202-44210.	4.2	2
347	Investigation on effective thermal conductivity of microalgae suspensions in a shear flow. Applied Thermal Engineering, 2021, 186, 116440.	6.0	2
348	Upper Limit of Light-Levitated Droplet Motion. Analytical Chemistry, 2021, 93, 16008-16016.	6.5	2
349	Elimination of Fuel Crossover in a Single-Flow Microfluidic Fuel Cell with a Selective Catalytic Cathode. Industrial & Engineering Chemistry Research, 2022, 61, 1955-1964.	3.7	2
350	Light Controlled 3D Crystal Morphology for Droplet Evaporative Crystallization on Photosensitive Hydrophobic Substrate. Journal of Physical Chemistry Letters, 2022, 13, 5910-5917.	4.6	2
351	The Effects of Gas Flow Rate and the Interval Time of Water Supplement on Ethanol Production of Rice Straw by Simultaneous Saccharification and Fermentation. International Journal of Green Energy, 2015, 12, 1031-1036.	3.8	1
352	CO2 absorption of anhydrous colloidal suspension based silica nanospheres with different microstructures. Energy and Environment, 2020, , 0958305X2094387.	4.6	1
353	Caregivers: the potential infection resources for the sustaining epidemic of hand, foot, and mouth disease/herpangina in Guangdong, China?. Archives of Public Health, 2021, 79, 54.	2.4	1
354	Infrared laser-induced photothermal phase change for liquid actuation in microchannels. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	1
355	Successful combinatorial therapy of sirolimus and neuraminidase inhibitors in a patient with highly pathogenic avian influenza A (H5N6) virus: a case report. Annals of Translational Medicine, 2022, 10, 265-265.	1.7	1
356	A hollow structure for flow and bendable paperâ€based zincâ€air battery. International Journal of Energy Research, 0, , .	4.5	1
357	Experimental Investigation on Coalescence of Liquid Drops on Homogeneous Surfaces. , 2006, , .		0
358	Effects of microporous layer preparation on the performance of an air-breathing direct methanol fuel cell. , 2009, , .		0
359	Numerical study on catalytic combustion of methane with ozone using Pd-exchanged zeolite X. Science China Chemistry, 2015, 58, 899-904.	8.2	0
360	Reply to Hueston et al. Journal of Infectious Diseases, 2019, 220, 1540-1542.	4.0	0

#	Article	IF	Citations
361	Modelling of a CH4-producing microbial electrosynthesis system for energy recovery and wastewater treatment. Environmental Science: Water Research and Technology, 0, , .	2.4	0
362	Superaerophobic hierarchical NiCo-P@Ni electrode for highly efficient hydrogen evolution reaction. The Proceedings of the International Conference on Power Engineering (ICOPE), 2021, 2021.15, 2021-0154.	0.0	0