Xun Zhu

List of Publications by Year
in descending order

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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	Electricity generation and electrochemical insight of zinc-air battery via microfluidic flow control. Chemical Engineering Journal, 2022, 429, 132198.	12.7	6
2	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
3	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
4	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
5	Hydrothermal hydrolysis of algal biomass for biofuels production: A review. Bioresource Technology, 2022, 344, 126213.	9.6	24
6	Biohydrogen production from microalgae for environmental sustainability. Chemosphere, 2022, 291, 132717.	8.2	81
7	The role of machine learning to boost the bioenergy and biofuels conversion. Bioresource Technology, 2022, 343, 126099.	9.6	76
8	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
9	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
10	A flexible on-fiber H2O2 microfluidic fuel cell with high power density. International Journal of Hydrogen Energy, 2022, 47, 4793-4803.	7.1	18
11	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
12	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
13	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
14	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
15	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
16	Synergetic Photo-Thermo Catalytic Hydrogen Production by Carbon Materials. Journal of Physical Chemistry Letters, 2022, 13, 1602-1608.	4.6	12
17	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
18	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

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19	Spontaneous Imbibition in Paper-Based Microfluidic Devices: Experiments and Numerical Simulations. Langmuir, 2022, 38, 2677-2685.	3.5	8
20	How Interfacial Properties Affect Adhesion: An Analysis from the Interactions between Microalgal Cells and Solid Substrates. Langmuir, 2022, 38, 3284-3296.	3.5	10
21	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
22	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
23	Novel Superaerophobic Anode with Fernâ€Shaped Pd Nanoarray for Highâ€Performance Direct Formic Acid Fuel Cell. Advanced Functional Materials, 2022, 32, .	14.9	18
24	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
25	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
26	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
27	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
28	Dynamic two-phase flow behaviors in permeable network integrated with microchannel. Applied Thermal Engineering, 2022, , 118639.	6.0	3
29	Lightâ€Fueled Submarineâ€Like Droplet. Advanced Science, 2022, 9, .	11.2	7
30	Accelerated bubble growth and departure by bioinspired gradient anode in microfluidic fuel cells. Electrochimica Acta, 2022, 424, 140618.	5.2	10
31	Light Droplet Levitation in Relation to Interface Morphology and Liquid Property. Journal of Physical Chemistry Letters, 2022, 13, 4762-4767.	4.6	3
32	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
33	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
34	Kinetics of light assisted catalytic reduction of 4-NP over Ag/PDA. Chemical Engineering Science, 2022, 259, 117778.	3.8	7
35	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
36	Micro-object manipulation by decanol liquid lenses. Lab on A Chip, 2022, 22, 2844-2852.	6.0	5

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37	Photothermal reduction of 4-nitrophenol to 4-aminophenol using silver/polydopamine catalysts. Journal of Environmental Chemical Engineering, 2022, 10, 108253.	6.7	4
38	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
39	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
40	Discrete-holes film fueling anode heads for high performance air-breathing microfluidic fuel cell. Journal of Power Sources, 2021, 482, 228966.	7.8	21
41	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
42	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
43	Minimizing mass transfer losses in microbial fuel cells: Theories, progresses and prospectives. Renewable and Sustainable Energy Reviews, 2021, 136, 110460.	16.4	28
44	Triple-phase electrocatalysis for the enhanced CO2 reduction to HCOOH on a hydrophobic surface. Chemical Engineering Journal, 2021, 405, 126975.	12.7	56
45	Investigation on effective thermal conductivity of microalgae suspensions in a shear flow. Applied Thermal Engineering, 2021, 186, 116440.	6.0	2
46	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
47	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
48	A high power density paper-based zincâ€“air battery with a hollow channel structure. Chemical Communications, 2021, 57, 1258-1261.	4.1	12
49	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
50	A 3D oriented CuS/Cu₂O/Cu nanowire photocathode. Journal of Materials Chemistry A, 2021, 9, 6971-6980.	10.3	9
51	Route towards high-performance microfluidic fuel cells: a review. Sustainable Energy and Fuels, 2021, 5, 2840-2859.	4.9	16
52	Reduction of Formate Crossover in Sequential-Flow Microfluidic Fuel Cells. Industrial & Engineering Chemistry Research, 2021, 60, 1526-1531.	3.7	3
53	Controllable light-induced droplet evaporative crystallization. Soft Matter, 2021, 17, 8730-8741.	2.7	5
54	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

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55	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
56	New insights into the role of CO2 in a photocatalytic fuel cell. Journal of Power Sources, 2021, 487, 229438.	7.8	9
57	Hydration Activation of MgO Pellets for CO₂ Adsorption. Industrial & Engineering Chemistry Research, 2021, 60, 5310-5318.	3.7	5
58	Droplet Evaporation on a Hydrophobic Photothermal Conversion Substrate. Industrial & Engineering Chemistry Research, 2021, 60, 3758-3769.	3.7	14
59	Photothermally Caused Propylene Glycolâ€“Water Binary Droplet Evaporation on a Hydrophobic Surface. Industrial & Engineering Chemistry Research, 2021, 60, 4153-4167.	3.7	3
60	Customizable design strategies for high-performance bioanodes in bioelectrochemical systems. IScience, 2021, 24, 102163.	4.1	20
61	Flipped Quick-Response Code Enables Reliable Blood Grouping. ACS Nano, 2021, 15, 7649-7658.	14.6	12
62	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
63	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
64	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
65	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
66	An RFC4/Notch1 signaling feedback loop promotes NSCLC metastasis and stemness. Nature Communications, 2021, 12, 2693.	12.8	38
67	Carbene-Catalyzed Atroposelective Annulation and Desymmetrization of Urazoles. Organic Letters, 2021, 23, 3991-3996.	4.6	50
68	Light-Fueled Beating Coffee-Ring Deposition for Droplet Evaporative Crystallization. Analytical Chemistry, 2021, 93, 8817-8825.	6.5	11
69	Polydopamine inspired dual-functional templates to prepare photoanode with enhanced photoelectrochemical activity. Journal of Power Sources, 2021, 496, 229831.	7.8	7
70	Applying artificial neural network to predict the viscosity of microalgae slurry in hydrothermal hydrolysis process. Energy and AI, 2021, 4, 100053.	10.6	15
71	Infrared laser-induced photothermal phase change for liquid actuation in microchannels. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	1
72	Kinetics of hydrolysis of microalgae biomass during hydrothermal pretreatment. Biomass and Bioenergy, 2021, 149, 106074.	5.7	10

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73	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
74	A Novel Stacked Rotary Cup Atomizer Toward Efficient Centrifugal Granulation of Molten Blast Furnace Slag. Steel Research International, 2021, 92, 2100207.	1.8	5
75	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
76	Self-doped TiO2 nanotube array photoanode for microfluidic all-vanadium photoelectrochemical flow battery. Journal of Electroanalytical Chemistry, 2021, 897, 115598.	3.8	8
77	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
78	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
79	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
80	How can ethanol enhance direct interspecies electron transfer in anaerobic digestion?. Biotechnology Advances, 2021, 52, 107812.	11.7	45
81	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
82	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
83	Life cycle and economic analysis of chemicals production via electrolytic (bi)carbonate and gaseous CO2 conversion. Applied Energy, 2021, 304, 117768.	10.1	15
84	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
85	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
86	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
87	Upper Limit of Light-Levitated Droplet Motion. Analytical Chemistry, 2021, 93, 16008-16016.	6.5	2
88	Light fueled mixing in open surface droplet microfluidics for rapid probe preparation. Physical Chemistry Chemical Physics, 2021, 23, 26356-26365.	2.8	3
89	Loss of ATF4 leads to functional aging-like attrition of adult hematopoietic stem cells. Science Advances, 2021, 7, eabj6877.	10.3	11
90	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

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91	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
92	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
93	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
94	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
95	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
96	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
97	Maximum spread of droplets on chemically striped surfaces. AICHE Journal, 2020, 66, e16774.	3.6	6
98	A membraneless microfluidic fuel cell with continuous multistream flow through cotton threads. International Journal of Energy Research, 2020, 44, 2243-2251.	4.5	20
99	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
100	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
101	Enhancing fuel transport in air-breathing microfluidic fuel cells by immersed fuel micro-jet. Journal of Power Sources, 2020, 445, 227326.	7.8	44
102	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
103	Solar fuel production from CO2 reduction in a self-biased hybrid solar-microbial device. Applied Energy, 2020, 279, 115821.	10.1	4
104	Biofuel production from wet microalgae biomass: Comparison of physicochemical properties and extraction performance. Energy, 2020, 212, 118581.	8.8	18
105	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
106	Dynamic behaviors and regime map of a molten blast furnace slag droplet impacting a solid surface. Fuel, 2020, 279, 118451.	6.4	12
107	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
108	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

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109	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
110	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
111	CO2 absorption of anhydrous colloidal suspension based silica nanospheres with different microstructures. Energy and Environment, 2020, , 0958305X2094387.	4.6	1
112	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
113	Antibiotic fidaxomicin is an RdRp inhibitor as a potential new therapeutic agent against Zika virus. BMC Medicine, 2020, 18, 204.	5.5	23
114	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
115	Simultaneous enhancing the sedimentation and adsorption performance of Chlorella vulgaris with montmorillonite modified cationic starch. Biochemical Engineering Journal, 2020, 164, 107785.	3.6	9
116	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
117	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
118	A direct formate microfluidic fuel cell with cotton thread-based electrodes. International Journal of Hydrogen Energy, 2020, 45, 27665-27674.	7.1	25
119	Light-Caused Droplet Bouncing from a Cavity Trap-Assisted Superhydrophobic Surface. Langmuir, 2020, 36, 11068-11078.	3.5	9
120	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
121	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
122	Effects of Operational Parameters on Biofilm Formation of Mixed Bacteria for Hydrogen Fermentation. Sustainability, 2020, 12, 8863.	3.2	5
123	Pore engineering of graphene aerogels for vanadium redox flow batteries. Chemical Communications, 2020, 56, 14984-14987.	4.1	5
124	Stacked Catalytic Membrane Microreactor for Nitrobenzene Hydrogenation. Industrial & Engineering Chemistry Research, 2020, 59, 9469-9477.	3.7	6
125	Deep neural model with self-training for scientific keyphrase extraction. PLoS ONE, 2020, 15, e0232547.	2.5	12
126	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

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127	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
128	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
129	C19orf66 interrupts Zika virus replication by inducing lysosomal degradation of viral NS3. PLoS Neglected Tropical Diseases, 2020, 14, e0008083.	3.0	32
130	GO/PEDOT modified biocathodes promoting CO₂ reduction to CH₄ in microbial electrosynthesis. Sustainable Energy and Fuels, 2020, 4, 2987-2997.	4.9	37
131	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
132	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
133	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
134	Catalytic Membrane Microreactors with an Ultrathin Freestanding Membrane for Nitrobenzene Hydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 9806-9813.	8.0	11
135	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
136	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
137	Hybrid microbial photoelectrochemical system reduces CO2 to CH4 with 1.28% solar energy conversion efficiency. Chemical Engineering Journal, 2020, 390, 124530.	12.7	44
138	In situ formed graphene nanosheets enhance bidirectional electron transfer in bioelectrochemical systems. Sustainable Energy and Fuels, 2020, 4, 2386-2395.	4.9	6
139	Numerical investigation of laminar mixed convection of microalgae slurry flowing in a solar collector. Applied Thermal Engineering, 2020, 175, 115366.	6.0	11
140	Keyphrase Generation With CopyNet and Semantic Web. IEEE Access, 2020, 8, 44202-44210.	4.2	2
141	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
142	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
143	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
144	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

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145	Photo-bioreactor design for microalgae: A review from the aspect of CO2 transfer and conversion. Bioresource Technology, 2019, 292, 121947.	9.6	86
146	Synergistic effect of Pd content and polyelectrolyte multilayer structure on nitrobenzene hydrogenation in a microreactor. RSC Advances, 2019, 9, 23560-23569.	3.6	4
147	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
148	Improved performance of microbial fuel cells using a gradient porous air cathode: An experiment and simulation study. Bioelectrochemistry, 2019, 130, 107335.	4.6	6
149	Reply to Hueston et al. Journal of Infectious Diseases, 2019, 220, 1540-1542.	4.0	0
150	Exergy analyses of biogas production from microalgae biomass via anaerobic digestion. Bioresource Technology, 2019, 289, 121709.	9.6	39
151	Identification of a Novel Betacoronavirus (Merbecovirus) in Amur Hedgehogs from China. Viruses, 2019, 11, 980.	3.3	42
152	A dual-functional three-dimensional herringbone-like electrode for a membraneless microfluidic fuel cell. Journal of Power Sources, 2019, 438, 227058.	7.8	37
153	Simulation on the Marangoni flow and heat transfer in a laser-heated suspended droplet. Chemical Engineering Science, 2019, 209, 115202.	3.8	12
154	Zika Virus Infection Induces Acute Kidney Injury Through Activating NLRP3 Inflammasome Via Suppressing Bcl-2. Frontiers in Immunology, 2019, 10, 1925.	4.8	30
155	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
156	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
157	Visualization of two-phase reacting flow behavior in a gasâ€“liquidâ€“solid microreactor. Reaction Chemistry and Engineering, 2019, 4, 715-723.	3.7	7
158	Rheokinetics of microalgae slurry during hydrothermal pretreatment processes. Bioresource Technology, 2019, 289, 121650.	9.6	13
159	A ternary hybrid CuS/Cu2O/Cu nanowired photocathode for photocatalytic fuel cell. Journal of Power Sources, 2019, 435, 226766.	7.8	22
160	On the centrifugal granulation characteristics by rotary disk: Effect of outer edge structure. Applied Thermal Engineering, 2019, 159, 113977.	6.0	11
161	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
162	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

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163	Modeling of PEM Fuel Cell Catalyst Layers: Status and Outlook. Electrochemical Energy Reviews, 2019, 2, 428-466.	25.5	60
164	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
165	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
166	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
167	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
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