

# Rong Chen

## List of Publications by Year in descending order

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187  
papers

4,013  
citations

147726

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197736

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docs citations

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times ranked

3166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water flooding behavior in flow cells for ammonia production via electrocatalytic nitrogen reduction. <i>Fundamental Research</i> , 2022, 2, 757-763.	1.6	10
2	Electricity generation and electrochemical insight of zinc-air battery via microfluidic flow control. <i>Chemical Engineering Journal</i> , 2022, 429, 132198.	6.6	6
3	Enhanced gas removal and cell performance of a microfluidic fuel cell by a paper separator embedded in the microchannel. <i>Energy</i> , 2022, 239, 122098.	4.5	10
4	Self-assembly of supraparticles on a lubricated-superamphiphobic patterned surface. <i>Applied Surface Science</i> , 2022, 576, 151684.	3.1	14
5	A flexible on-fiber H <sub>2</sub> O <sub>2</sub> microfluidic fuel cell with high power density. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4793-4803.	3.8	18
6	Towards flexible fuel cells: development, challenge and prospect. <i>Applied Thermal Engineering</i> , 2022, 203, 117937.	3.0	13
7	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. <i>Chemical Engineering Journal</i> , 2022, 432, 134192.	6.6	39
8	Elimination of Fuel Crossover in a Single-Flow Microfluidic Fuel Cell with a Selective Catalytic Cathode. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 1955-1964.	1.8	2
9	Surface modification of PTFE/SiO <sub>2</sub> composite films through the deposition of polydopamine (PDA) and the modified adhesive properties. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	10
10	Synergetic Photo-Thermo Catalytic Hydrogen Production by Carbon Materials. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1602-1608.	2.1	12
11	Photothermal trap with multi-scale micro-nano hierarchical structure enhances light absorption and promote photothermal anti-icing/deicing. <i>Chemical Engineering Journal</i> , 2022, 435, 135025.	6.6	58
12	Spontaneous Imbibition in Paper-Based Microfluidic Devices: Experiments and Numerical Simulations. <i>Langmuir</i> , 2022, 38, 2677-2685.	1.6	8
13	Filter paper membrane based microfluidic fuel cells: Toward next-generation miniaturized and low cost power supply. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15065-15073.	3.8	11
14	Residence Time Characteristics of Taylor Reacting Flow in a Microchannel Reactor during Long-Term Operation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4105-4113.	3.2	6
15	A 3D porous PDMS sponge embedded with carbon nanoparticles for solar driven interfacial evaporation. <i>Separation and Purification Technology</i> , 2022, 292, 120985.	3.9	34
16	Novel Superaerophobic Anode with Fernã€s-Shaped Pd Nanoarray for Highã€ Performance Direct Formic Acid Fuel Cell. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	18
17	Oxygen self-doping formicary-like electrocatalyst with ultrahigh specific surface area derived from waste pitaya peels for high-yield H <sub>2</sub> O <sub>2</sub> electrosynthesis and efficient electro-Fenton degradation. <i>Separation and Purification Technology</i> , 2022, 289, 120687.	3.9	11
18	Residence time characteristic of Taylor reacting flow in a microchannel reactor. <i>Chemical Engineering Science</i> , 2022, 253, 117575.	1.9	5

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19	Role of defects and oxygen-functional groups in carbon paper cathode for high-performance direct liquid fuel cells. <i>Carbon</i> , 2022, 192, 170-178.	5.4	11
20	Advances and Challenges in Photoelectrochemical Redox Batteries for Solar Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	27
21	How does the electric field make a droplet exhibit the ejection and rebound behaviour on a superhydrophobic surface?. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	1.4	10
22	Dynamic two-phase flow behaviors in permeable network integrated with microchannel. <i>Applied Thermal Engineering</i> , 2022, , 118639.	3.0	3
23	Light-Fueled Submarine-Like Droplet. <i>Advanced Science</i> , 2022, 9, .	5.6	7
24	Accelerated bubble growth and departure by bioinspired gradient anode in microfluidic fuel cells. <i>Electrochimica Acta</i> , 2022, 424, 140618.	2.6	10
25	Light Droplet Levitation in Relation to Interface Morphology and Liquid Property. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4762-4767.	2.1	3
26	Light Controlled 3D Crystal Morphology for Droplet Evaporative Crystallization on Photosensitive Hydrophobic Substrate. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5910-5917.	2.1	2
27	Kinetics of light assisted catalytic reduction of 4-NP over Ag/PDA. <i>Chemical Engineering Science</i> , 2022, 259, 117778.	1.9	7
28	Engineering a concordant microenvironment with air-liquid-solid interface to promote electrochemical H <sub>2</sub> O <sub>2</sub> generation and wastewater purification. <i>Separation and Purification Technology</i> , 2022, 297, 121527.	3.9	6
29	Micro-object manipulation by decanol liquid lenses. <i>Lab on A Chip</i> , 2022, 22, 2844-2852.	3.1	5
30	Photothermal reduction of 4-nitrophenol to 4-aminophenol using silver/polydopamine catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108253.	3.3	4
31	A novel structured foam microreactor with controllable gas and liquid flow paths: Hydrodynamics and nitrobenzene conversion. <i>Chemical Engineering Science</i> , 2021, 229, 116004.	1.9	8
32	Current density distribution in air-breathing microfluidic fuel cells with an array of graphite rod anodes. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 2960-2968.	3.8	16
33	Discrete-holes film fueling anode heads for high performance air-breathing microfluidic fuel cell. <i>Journal of Power Sources</i> , 2021, 482, 228966.	4.0	21
34	In situ visualization of biofilm formation in a microchannel for a microfluidic microbial fuel cell anode. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14651-14658.	3.8	13
35	A high power density paper-based zinc-air battery with a hollow channel structure. <i>Chemical Communications</i> , 2021, 57, 1258-1261.	2.2	12
36	Determination of the Radiative Properties of the TiO <sub>2</sub> Porous Thin Films in the UV-VIS Spectral Range. <i>Mechanisms and Machine Science</i> , 2021, , 101-112.	0.3	0

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37	A 3D oriented CuS/Cu <sub>2</sub> O/Cu nanowire photocathode. Journal of Materials Chemistry A, 2021, 9, 6971-6980.	5.2	9
38	Route towards high-performance microfluidic fuel cells: a review. Sustainable Energy and Fuels, 2021, 5, 2840-2859.	2.5	16
39	Reduction of Formate Crossover in Sequential-Flow Microfluidic Fuel Cells. Industrial & Engineering Chemistry Research, 2021, 60, 1526-1531.	1.8	3
40	Controllable light-induced droplet evaporative crystallization. Soft Matter, 2021, 17, 8730-8741.	1.2	5
41	New insights into the role of CO <sub>2</sub> in a photocatalytic fuel cell. Journal of Power Sources, 2021, 487, 229438.	4.0	9
42	Droplet Evaporation on a Hydrophobic Photothermal Conversion Substrate. Industrial & Engineering Chemistry Research, 2021, 60, 3758-3769.	1.8	14
43	Photothermally Caused Propylene Glycol-Water Binary Droplet Evaporation on a Hydrophobic Surface. Industrial & Engineering Chemistry Research, 2021, 60, 4153-4167.	1.8	3
44	A self-pumping microfluidic fuel cell powered by formate with Pd coated carbon cloth electrodes. Journal of Power Sources, 2021, 490, 229553.	4.0	22
45	Direct Formate/Persulfate Microfluidic Fuel Cell with a Catalyst-Free Cathode and High Power Density. ACS Sustainable Chemistry and Engineering, 2021, 9, 5623-5630.	3.2	10
46	Light-Fueled Beating Coffee-Ring Deposition for Droplet Evaporative Crystallization. Analytical Chemistry, 2021, 93, 8817-8825.	3.2	11
47	Polydopamine inspired dual-functional templates to prepare photoanode with enhanced photoelectrochemical activity. Journal of Power Sources, 2021, 496, 229831.	4.0	7
48	Infrared laser-induced photothermal phase change for liquid actuation in microchannels. Microfluidics and Nanofluidics, 2021, 25, 1.	1.0	1
49	Highly sensitive detection of Hg <sup>2+</sup> employing SPR sensor modified with chitosan/poly (vinyl) Tj ETQq1 1 0.784314 19 /Overlock 10	1.9	1
50	Bubble-trap layer for effective removing gas bubbles and stabilizing power generation in direct liquid fuel cell. Journal of Power Sources, 2021, 507, 230260.	4.0	9
51	Self-doped TiO <sub>2</sub> nanotube array photoanode for microfluidic all-vanadium photoelectrochemical flow battery. Journal of Electroanalytical Chemistry, 2021, 897, 115598.	1.9	8
52	Carbon-Based Photothermal Superhydrophobic Materials with Hierarchical Structure Enhances the Anti-Icing and Photothermal Deicing Properties. ACS Applied Materials & Interfaces, 2021, 13, 48308-48321.	4.0	102
53	Highly efficient photocatalytic conversion of gas phase CO <sub>2</sub> by TiO <sub>2</sub> nanotube array sensitized with CdS/ZnS quantum dots under visible light. International Journal of Hydrogen Energy, 2021, 46, 31634-31646.	3.8	20
54	Solar energy storage by a microfluidic all-vanadium photoelectrochemical flow cell with self-doped TiO <sub>2</sub> photoanode. Journal of Energy Storage, 2021, 43, 103228.	3.9	11

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55	Droplet Migration and Coalescence in a Microchannel Induced by the Photothermal Effect of a Focused Infrared Laser. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 1912-1925.	1.8	12
56	Upper Limit of Light-Levitated Droplet Motion. <i>Analytical Chemistry</i> , 2021, 93, 16008-16016.	3.2	2
57	Light fueled mixing in open surface droplet microfluidics for rapid probe preparation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26356-26365.	1.3	3
58	Oil/Water Microreactor with a Core-Shell Wetting State on a SOB/OL-SHB/HL Multilevel Patterned Surface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27771-27783.	1.5	8
59	A membraneless microfluidic fuel cell with continuous multistream flow through cotton threads. <i>International Journal of Energy Research</i> , 2020, 44, 2243-2251.	2.2	20
60	Anion-Exchange Membrane Electrode Assembled Photoelectrochemical Cell with a Visible Light Responsive Photoanode for Simultaneously Treating Wastewater and Generating Electricity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 137-145.	1.8	10
61	Enhancing fuel transport in air-breathing microfluidic fuel cells by immersed fuel micro-jet. <i>Journal of Power Sources</i> , 2020, 445, 227326.	4.0	44
62	Influence of torrefaction, hydrothermal carbonization and degradative solvent extraction pretreatments on moisture absorption and self-ignition characteristics of biomass. <i>Fuel</i> , 2020, 282, 118843.	3.4	31
63	High performance formic acid fuel cell benefits from Pd-PdO catalyst supported by ordered mesoporous carbon. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29235-29245.	3.8	31
64	Single-Stream $H_2O_2$ Membraneless Microfluidic Fuel Cell and Its Application as a Self-Powered Electrochemical Sensor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 15447-15453.	1.8	28
65	Preparation of a Catalyst Layer by Layer-by-Layer Self-Assembly for Plate-Type Catalytic Membrane Microreactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 15865-15874.	1.8	4
66	Simple Method for Directly Synthesizing Ag Nanoparticles with Silver Ammonia and Polydopamine in a Microreactor toward the Conversion of 4-NP to 4-AP. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 16205-16216.	1.8	11
67	A direct formate microfluidic fuel cell with cotton thread-based electrodes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27665-27674.	3.8	25
68	Light-Caused Droplet Bouncing from a Cavity Trap-Assisted Superhydrophobic Surface. <i>Langmuir</i> , 2020, 36, 11068-11078.	1.6	9
69	Cyclic voltammetry electrodeposition of well-dispersed Pd nanoparticles on carbon paper as a flow-through anode for microfluidic direct formate fuel cells. <i>Nanoscale</i> , 2020, 12, 20270-20278.	2.8	21
70	Pore engineering of graphene aerogels for vanadium redox flow batteries. <i>Chemical Communications</i> , 2020, 56, 14984-14987.	2.2	5
71	Stacked Catalytic Membrane Microreactor for Nitrobenzene Hydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9469-9477.	1.8	6
72	One-dimensional TiO <sub>2</sub> nanotube array photoanode for a microfluidic all-vanadium photoelectrochemical cell for solar energy storage. <i>Catalysis Science and Technology</i> , 2020, 10, 4352-4361.	2.1	11

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73	Band Gap Engineering in an Efficient Solar-Driven Interfacial Evaporation System. ACS Applied Materials & Interfaces, 2020, 12, 32880-32887.	4.0	73
74	Dynamic behaviors and charge characteristics of droplet in a vertical electric field before bouncing. Experimental Thermal and Fluid Science, 2020, 119, 110213.	1.5	11
75	Catalytic Membrane Microreactors with an Ultrathin Freestanding Membrane for Nitrobenzene Hydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 9806-9813.	4.0	11
76	Structured Ni-B amorphous alloy catalysts on Ni foam for a gas-liquid-solid microreactor. Catalysis Science and Technology, 2020, 10, 1933-1940.	2.1	2
77	Laser assisted microfluidic membrane evaporator for sample crystallization separation. Separation and Purification Technology, 2020, 242, 116817.	3.9	8
78	Synergistic effect of Pd content and polyelectrolyte multilayer structure on nitrobenzene hydrogenation in a microreactor. RSC Advances, 2019, 9, 23560-23569.	1.7	4
79	A membrane-less visible-light responsive micro photocatalytic fuel cell with the laterally-arranged CdS/ZnS-TiO <sub>2</sub> photoanode and air-breathing CuO photocathode for simultaneous wastewater treatment and electricity generation. Separation and Purification Technology, 2019, 229, 115821.	3.9	23
80	A microfluidic all-vanadium photoelectrochemical cell with a full-spectrum-responsive TiO <sub>2</sub> photoanode for efficient solar energy storage. Science China Technological Sciences, 2019, 62, 1628-1635.	2.0	12
81	A dual-functional three-dimensional herringbone-like electrode for a membraneless microfluidic fuel cell. Journal of Power Sources, 2019, 438, 227058.	4.0	37
82	Simulation on the Marangoni flow and heat transfer in a laser-heated suspended droplet. Chemical Engineering Science, 2019, 209, 115202.	1.9	12
83	Optical droplets sorting assisted by superhydrophobic surface with hydrophilic patterns. International Journal of Heat and Mass Transfer, 2019, 143, 118560.	2.5	6
84	Visualization of two-phase reacting flow behavior in a gas-liquid-solid microreactor. Reaction Chemistry and Engineering, 2019, 4, 715-723.	1.9	7
85	A ternary hybrid CuS/Cu <sub>2</sub> O/Cu nanowired photocathode for photocatalytic fuel cell. Journal of Power Sources, 2019, 435, 226766.	4.0	22
86	In Situ Synthesis of a Multilayered (PSS-PAH-Pd) <sub>n</sub> Catalytic Hybrid Film Synthesized by the Layer-by-Layer Self-Assembly. Industrial & Engineering Chemistry Research, 2019, 58, 9038-9047.	1.8	4
87	Core-shell structured Pd catalyst layer encapsulated by polydopamine for a gas-liquid-solid microreactor. Applied Surface Science, 2019, 487, 416-425.	3.1	11
88	Two-phase computational modelling of a membraneless microfluidic fuel cell with a flow-through porous anode. Journal of Power Sources, 2019, 420, 88-98.	4.0	32
89	A solar responsive cubic nanosized CuS/Cu <sub>2</sub> O/Cu photocathode with enhanced photoelectrochemical activity. Journal of Catalysis, 2019, 372, 182-192.	3.1	28
90	CO <sub>2</sub> utilization: Direct power generation by a coupled system that integrates photocatalytic reduction of CO <sub>2</sub> with photocatalytic fuel cell. Journal of CO <sub>2</sub> Utilization, 2019, 32, 31-36.	3.3	26

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91	Hierarchical Pd@Ni catalyst with a snow-like nanostructure on Ni foam for nitrobenzene hydrogenation. <i>Applied Catalysis A: General</i> , 2019, 575, 238-245.	2.2	16
92	A microfluidic all-vanadium photoelectrochemical cell with the N-doped TiO <sub>2</sub> photoanode for enhancing the solar energy storage. <i>Journal of Power Sources</i> , 2019, 419, 162-170.	4.0	21
93	Toward CO <sub>2</sub> utilization for direct power generation using an integrated system consisting of CO <sub>2</sub> photoreduction with 3D TiO <sub>2</sub> /Ni-foam and a photocatalytic fuel cell. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6275-6284.	5.2	17
94	Gas consumption characteristics determined by gas-liquid two-phase flow coupled with catalytic reaction in a gas-liquid-solid microreactor. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 897-906.	2.5	7
95	Highly Flexible and Ultraprecise Manipulation of Light-Levitated Femtoliter/Picoliter Droplets. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1068-1077.	2.1	28
96	pH response of zwitterionic polydopamine layer to palladium deposition in the microchannel. <i>Chemical Engineering Journal</i> , 2019, 356, 282-291.	6.6	10
97	Light-actuated droplets coalescence and ion detection on the CAHTs-assisted superhydrophobic surface. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 469-481.	4.0	13
98	Renewable Energy Utilization and Energy Conservation in Thermal and Power Systems for China's Sustainable Energy Future. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, .	1.0	3
99	Visible light responsive CdS sensitized TiO <sub>2</sub> nanorod array films for efficient photocatalytic reduction of gas phase CO <sub>2</sub> . <i>Molecular Catalysis</i> , 2018, 448, 185-194.	1.0	42
100	Experimental study on the durability of the polydopamine functionalized gas-liquid-solid microreactor for nitrobenzene hydrogenation. <i>RSC Advances</i> , 2018, 8, 5661-5669.	1.7	14
101	Pulsating flow triggered by the laser induced phase change in microchannels with sawtooth-shaped baffles. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 1018-1024.	4.0	7
102	Control of the droplet generation by an infrared laser. <i>AIP Advances</i> , 2018, 8, .	0.6	10
103	A ternary hybrid CdS/SiO <sub>2</sub> /TiO <sub>2</sub> photoanode with enhanced photoelectrochemical activity. <i>Renewable Energy</i> , 2018, 127, 524-530.	4.3	27
104	Thermal analysis of the photothermal effect based droplet microfluidic system. <i>Chemical Engineering Science</i> , 2018, 186, 191-198.	1.9	7
105	Interaction of the Taylor flow behaviors and catalytic reaction inside a gas-liquid-solid microreactor under long-term operation. <i>Chemical Engineering Science</i> , 2018, 175, 175-184.	1.9	26
106	Layer-by-layer self-assembly of palladium nanocatalysts with polyelectrolytes grafted on the polydopamine functionalized gas-liquid-solid microreactor. <i>Chemical Engineering Journal</i> , 2018, 332, 174-182.	6.6	26
107	Gas-liquid-solid monolithic microreactor with Pd nanocatalyst coated on polydopamine modified nickel foam for nitrobenzene hydrogenation. <i>Chemical Engineering Journal</i> , 2018, 334, 1897-1904.	6.6	45
108	Electricity generation of a laminar-flow microbial fuel cell without any additional power supply. <i>RSC Advances</i> , 2018, 8, 33637-33641.	1.7	8

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109	A woven thread-based microfluidic fuel cell with graphite rod electrodes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22467-22473.	3.8	33
110	A microfluidic all-vanadium photoelectrochemical cell with multi-nanostructured TiO <sub>2</sub> photoanode. <i>Journal of Power Sources</i> , 2018, 404, 1-6.	4.0	22
111	Numerical study of water droplets impacting on cylindrical heat transfer pipes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 598-610.	1.5	5
112	Multilayered Pd nanocatalysts with nano-bulge structure in a microreactor for multiphase catalytic reaction. <i>Chemical Engineering Research and Design</i> , 2018, 138, 190-199.	2.7	8
113	Cassie-to-Wenzel transition of droplet on the superhydrophobic surface caused by light induced evaporation. <i>Applied Thermal Engineering</i> , 2018, 144, 945-959.	3.0	30
114	Boosting power density of microfluidic biofuel cell with porous three-dimensional graphene@nickel foam as flow-through anode. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18516-18520.	3.8	12
115	IR laser induced phase change behaviors of the NaCl solution in the microchannel. <i>Chemical Engineering Science</i> , 2018, 187, 318-326.	1.9	4
116	Numerical study on dynamic behaviors of the coalescence between the advancing liquid meniscus and multi-droplets in a microchannel using CLSVOF method. <i>Computers and Fluids</i> , 2018, 170, 341-348.	1.3	11
117	A visible-light responsive micro photocatalytic fuel cell with laterally arranged electrodes. <i>Applied Thermal Engineering</i> , 2018, 143, 193-199.	3.0	12
118	Tube-in-tube hollow fiber catalytic membrane microreactor for the hydrogenation of nitrobenzene. <i>Chemical Engineering Journal</i> , 2018, 354, 35-41.	6.6	32
119	A solar responsive photocatalytic fuel cell with the membrane electrode assembly design for simultaneous wastewater treatment and electricity generation. <i>Journal of Hazardous Materials</i> , 2018, 358, 346-354.	6.5	40
120	Dynamic behaviors of the coalescence between two droplets with different temperatures simulated by the VOF method. <i>Applied Thermal Engineering</i> , 2018, 131, 132-140.	3.0	21
121	Copper-decorated TiO <sub>2</sub> nanorod thin films in optofluidic planar reactors for efficient photocatalytic reduction of CO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9722-9732.	3.8	72
122	High-performance optofluidic membrane microreactor with a mesoporous CdS/TiO <sub>2</sub> /SBA-15@carbon paper composite membrane for the CO <sub>2</sub> photoreduction. <i>Chemical Engineering Journal</i> , 2017, 316, 911-918.	6.6	73
123	Mathematical modeling of direct formate fuel cells. <i>Applied Thermal Engineering</i> , 2017, 124, 232-240.	3.0	31
124	A micro membrane-less photoelectrochemical cell for hydrogen and electricity generation in the presence of methanol. <i>Electrochimica Acta</i> , 2017, 245, 549-560.	2.6	15
125	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. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 975-983.	2.5	15
126	A simulation on flow and mass transfer in a packed bed photobioreactor for hydrogen production. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 1132-1142.	2.5	8



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127	A membrane electrode assembled photoelectrochemical cell with a solar-responsive cadmium sulfide-zinc sulfide-titanium dioxide/mesoporous silica photoanode. <i>Journal of Power Sources</i> , 2017, 371, 96-105.	4.0	11
128	A microfluidic all-vanadium photoelectrochemical cell for solar energy storage. <i>Electrochimica Acta</i> , 2017, 258, 842-849.	2.6	26
129	An optofluidic planar microreactor for photocatalytic reduction of CO <sub>2</sub> in alkaline environment. <i>Energy</i> , 2017, 120, 276-282.	4.5	54
130	Characteristics of the IR Laser Photothermally Induced Phase Change in Microchannels with Different Depths. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 8450-8459.	1.8	7
131	Visualization Study on Two-Phase Flow Behaviors in the Gas-Liquid-Solid Microreactor for Hydrogenation of Nitrobenzene. , 2016, , .		0
132	Catalytic membrane microreactor with Pd/Al <sub>2</sub> O <sub>3</sub> coated PDMS film modified by dopamine for hydrogenation of nitrobenzene. <i>Chemical Engineering Journal</i> , 2016, 301, 35-41.	6.6	54
133	High-performance gas-liquid-solid microreactor with polydopamine functionalized surface coated by Pd nanocatalyst for nitrobenzene hydrogenation. <i>Chemical Engineering Journal</i> , 2016, 306, 1017-1025.	6.6	67
134	Numerical investigation of the Marangoni convection during the liquid column evaporation in microchannels caused by IR laser heating. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 970-980.	2.5	16
135	An overview of smoothed particle hydrodynamics for simulating multiphase flow. <i>Applied Mathematical Modelling</i> , 2016, 40, 9625-9655.	2.2	138
136	Optofluidics-Based Membrane Microreactor for Wastewater Treatment by Photocatalytic Ozonation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 8627-8635.	1.8	16
137	A cascading gradient pore microstructured photoanode with enhanced photoelectrochemical and photocatalytic activities. <i>Journal of Catalysis</i> , 2016, 344, 411-419.	3.1	29
138	A micro photocatalytic fuel cell with an air-breathing, membraneless and monolithic design. <i>Science Bulletin</i> , 2016, 61, 1699-1710.	4.3	31
139	Effect of the Wettability on the IR Laser Photothermally Induced Phase Change in Microchannels. , 2016, , .		0
140	Bench scale study of CO <sub>2</sub> adsorption performance of MgO in the presence of water vapor. <i>Energy</i> , 2016, 112, 101-110.	4.5	27
141	Optofluidic membrane microreactor for photocatalytic reduction of CO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2457-2465.	3.8	75
142	IR laser caused droplet evaporation on the hydrophobic surface. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 180-190.	2.5	12
143	Effect of CO <sub>2</sub> bubbles behaviors on microalgal cells distribution and growth in bubble column photobioreactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4879-4887.	3.8	28
144	An investigation of CO <sub>2</sub> adsorption kinetics on porous magnesium oxide. <i>Chemical Engineering Journal</i> , 2016, 283, 175-183.	6.6	179

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145	Locomotion of bacteria in liquid flow and the boundary layer effect on bacterial attachment. <i>Biochemical and Biophysical Research Communications</i> , 2015, 461, 671-676.	1.0	2
146	Coalescence with Droplets Caused Acceleration of the Liquid Movement in Microchannels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 1161-1169.	1.8	3
147	Temperature-independent polymer optical fiber evanescent wave sensor. <i>Scientific Reports</i> , 2015, 5, 11508.	1.6	54
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