

# Yu-Xun Ren

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6988371/publications.pdf>

Version: 2024-02-01

140  
papers

11,460  
citations

20797

60  
h-index

30058

103  
g-index

141  
all docs

141  
docs citations

141  
times ranked

9833  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Self-Healable Sulfide/Polymer Composite Electrolyte for Long-Life, Low-Lithium-Excess Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2106680.	7.8	28
2	Deciphering the exceptional kinetics of hierarchical nitrogen-doped carbon electrodes for high-performance vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5605-5613.	5.2	14
3	A detachable sandwiched polybenzimidazole-based membrane for high-performance aqueous redox flow batteries. <i>Journal of Power Sources</i> , 2022, 526, 231139.	4.0	14
4	Operating High-Energy Lithium-Metal Pouch Cells with Reduced Stack Pressure Through a Rational Lithium-Host Design. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	10
5	Manipulation of Electrode Composition for Effective Water Management in Fuel Cells Fed with an Electrically Rechargeable Liquid Fuel. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18600-18606.	4.0	5
6	Machine learning-assisted design of flow fields for redox flow batteries. <i>Energy and Environmental Science</i> , 2022, 15, 2874-2888.	15.6	23
7	A Nafion/polybenzimidazole composite membrane with consecutive proton-conducting pathways for aqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13021-13030.	5.2	17
8	Anode-Free Lithium-Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
9	Anode-Free Lithium-Sulfur Cells Enabled by Rationally Tuning Lithium Polysulfide Molecules. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
10	A high-energy and long-cycling lithium-sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. <i>Nature Nanotechnology</i> , 2021, 16, 166-173.	15.6	392
11	A trifunctional electrolyte for high-performance zinc-iodine flow batteries. <i>Journal of Power Sources</i> , 2021, 484, 229238.	4.0	44
12	Elasticity-oriented design of solid-state batteries: challenges and perspectives. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13804-13821.	5.2	12
13	A highly-efficient composite polybenzimidazole membrane for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2021, 489, 229502.	4.0	29
14	Chloride ions as an electrolyte additive for high performance vanadium redox flow batteries. <i>Applied Energy</i> , 2021, 289, 116690.	5.1	30
15	Aligned microfibers interweaved with highly porous carbon nanofibers: A Novel electrode for high-power vanadium redox flow batteries. <i>Energy Storage Materials</i> , 2021, 43, 30-41.	9.5	35
16	Sodium-Sulfur Batteries Enabled by a Protected Inorganic/Organic Hybrid Solid Electrolyte. <i>ACS Energy Letters</i> , 2021, 6, 345-353.	8.8	34
17	A high-performance lithiated silicon-sulfur battery enabled by fluorinated ether electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25426-25434.	5.2	7
18	Highly catalytic hollow Ti3C2Tx MXene spheres decorated graphite felt electrode for vanadium redox flow batteries. <i>Energy Storage Materials</i> , 2020, 25, 885-892.	9.5	87

#	ARTICLE	IF	CITATIONS
19	A safe and efficient lithiated silicon-sulfur battery enabled by a bi-functional composite interlayer. <i>Energy Storage Materials</i> , 2020, 25, 217-223.	9.5	19
20	A high power density and long cycle life vanadium redox flow battery. <i>Energy Storage Materials</i> , 2020, 24, 529-540.	9.5	214
21	Towards uniform distributions of reactants via the aligned electrode design for vanadium redox flow batteries. <i>Applied Energy</i> , 2020, 259, 114198.	5.1	45
22	Enhanced cycle life of vanadium redox flow battery via a capacity and energy efficiency recovery method. <i>Journal of Power Sources</i> , 2020, 478, 228725.	4.0	33
23	Achieving multiplexed functionality in a hierarchical MXene-based sulfur host for high-rate, high-loading lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 33, 147-157.	9.5	64
24	On-Site Fluorination for Enhancing Utilization of Lithium in a Lithium-Sulfur Full Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53860-53868.	4.0	12
25	Asymmetric Porous Polybenzimidazole Membranes with High Conductivity and Selectivity for Vanadium Redox Flow Batteries. <i>Energy Technology</i> , 2020, 8, 2000592.	1.8	12
26	Flow Batteries: Modeling and Simulation of Flow Batteries ( <i>Adv. Energy Mater.</i> 31/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070133.	10.2	26
27	Aligned hierarchical electrodes for high-performance aqueous redox flow battery. <i>Applied Energy</i> , 2020, 271, 115235.	5.1	28
28	Modeling and Simulation of Flow Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000758.	10.2	66
29	An <i>in situ</i> encapsulation approach for polysulfide retention in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6902-6907.	5.2	9
30	Balancing the specific surface area and mass diffusion property of electrospun carbon fibers to enhance the cell performance of vanadium redox flow battery. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12565-12576.	3.8	31
31	Rational design of spontaneous reactions for protecting porous lithium electrodes in lithium-sulfur batteries. <i>Nature Communications</i> , 2019, 10, 3249.	5.8	99
32	Investigation of an aqueous rechargeable battery consisting of manganese tin redox chemistries for energy storage. <i>Journal of Power Sources</i> , 2019, 437, 226918.	4.0	14
33	Artificial Bifunctional Protective layer Composed of Carbon Nitride Nanosheets for High Performance Lithium-Sulfur Batteries. <i>Journal of Energy Storage</i> , 2019, 26, 101006.	3.9	19
34	A gradient porous electrode with balanced transport properties and active surface areas for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2019, 440, 227159.	4.0	49
35	Mesoporous carbon derived from pomelo peel as a high-performance electrode material for zinc-bromine flow batteries. <i>Journal of Power Sources</i> , 2019, 442, 227255.	4.0	40
36	An aqueous manganese-copper battery for large-scale energy storage applications. <i>Journal of Power Sources</i> , 2019, 423, 203-210.	4.0	46

#	ARTICLE	IF	CITATIONS
37	A uniformly distributed bismuth nanoparticle-modified carbon cloth electrode for vanadium redox flow batteries. <i>Applied Energy</i> , 2019, 240, 226-235.	5.1	73
38	A bi-porous graphite felt electrode with enhanced surface area and catalytic activity for vanadium redox flow batteries. <i>Applied Energy</i> , 2019, 233-234, 105-113.	5.1	41
39	Mathematical modeling of the charging process of Li-S batteries by incorporating the size-dependent Li <sub>2</sub> S dissolution. <i>Electrochimica Acta</i> , 2019, 296, 954-963.	2.6	20
40	A room-temperature activated graphite felt as the cost-effective, highly active and stable electrode for vanadium redox flow batteries. <i>Applied Energy</i> , 2019, 233-234, 544-553.	5.1	59
41	Anion exchange membranes for aqueous acid-based redox flow batteries: Current status and challenges. <i>Applied Energy</i> , 2019, 233-234, 622-643.	5.1	101
42	An aqueous alkaline battery consisting of inexpensive all-iron redox chemistries for large-scale energy storage. <i>Applied Energy</i> , 2018, 215, 98-105.	5.1	40
43	Towards a uniform distribution of zinc in the negative electrode for zinc bromine flow batteries. <i>Applied Energy</i> , 2018, 213, 366-374.	5.1	83
44	Advances and challenges in alkaline anion exchange membrane fuel cells. <i>Progress in Energy and Combustion Science</i> , 2018, 66, 141-175.	15.8	388
45	Mn <sub>3</sub> O <sub>4</sub> Nanoparticle-Decorated Carbon Cloths with Superior Catalytic Activity for the V <sup>II</sup> /V <sup>III</sup> Redox Reaction in Vanadium Redox Flow Batteries. <i>Energy Technology</i> , 2018, 6, 1228-1236.	1.8	20
46	Borophene and defective borophene as potential anchoring materials for lithium-sulfur batteries: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2107-2114.	5.2	127
47	Improved electrolyte for zinc-bromine flow batteries. <i>Journal of Power Sources</i> , 2018, 384, 232-239.	4.0	100
48	Parammium-Like Iron Oxide Nanotubes as a Cost-Efficient Catalyst for Nonaqueous Lithium-Oxygen Batteries. <i>Energy Technology</i> , 2018, 6, 263-272.	1.8	10
49	A Li <sub>2</sub> S-Based Sacrificial Layer for Stable Operation of Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2018, 6, 2210-2219.	1.8	4
50	Formation of electrodes by self-assembling porous carbon fibers into bundles for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2018, 405, 106-113.	4.0	54
51	Carbonized tubular polypyrrole with a high activity for the Br <sub>2</sub> /Br <sup>-</sup> redox reaction in zinc-bromine flow batteries. <i>Electrochimica Acta</i> , 2018, 284, 569-576.	2.6	54
52	Highly efficient and ultra-stable boron-doped graphite felt electrodes for vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13244-13253.	5.2	97
53	Remedies of capacity fading in room-temperature sodium-sulfur batteries. <i>Journal of Power Sources</i> , 2018, 396, 304-313.	4.0	45
54	In-situ investigation of hydrogen evolution behavior in vanadium redox flow batteries. <i>Applied Energy</i> , 2017, 190, 1112-1118.	5.1	102

#	ARTICLE	IF	CITATIONS
55	A novel iron-lead redox flow battery for large-scale energy storage. <i>Journal of Power Sources</i> , 2017, 346, 97-102.	4.0	29
56	A stabilized high-energy Li-polyiodide semi-liquid battery with a dually-protected Li anode. <i>Journal of Power Sources</i> , 2017, 347, 136-144.	4.0	17
57	Ab initio prediction and characterization of phosphorene-like SiS and SiSe as anode materials for sodium-ion batteries. <i>Science Bulletin</i> , 2017, 62, 572-578.	4.3	61
58	High-performance zinc bromine flow battery via improved design of electrolyte and electrode. <i>Journal of Power Sources</i> , 2017, 355, 62-68.	4.0	111
59	High-performance nitrogen-doped titania nanowire decorated carbon cloth electrode for lithium-polysulfide batteries. <i>Electrochimica Acta</i> , 2017, 242, 137-145.	2.6	22
60	Critical transport issues for improving the performance of aqueous redox flow batteries. <i>Journal of Power Sources</i> , 2017, 339, 1-12.	4.0	154
61	A hydrogen-ferric ion rebalance cell operating at low hydrogen concentrations for capacity restoration of iron-chromium redox flow batteries. <i>Journal of Power Sources</i> , 2017, 352, 77-82.	4.0	42
62	A Lithium/Polysulfide Battery with Dual-Working Mode Enabled by Liquid Fuel and Acrylate-Based Gel Polymer Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2526-2534.	4.0	24
63	Modeling of an aprotic Li-O <sub>2</sub> battery incorporating multiple-step reactions. <i>Applied Energy</i> , 2017, 187, 706-716.	5.1	22
64	An aprotic lithium/polyiodide semi-liquid battery with an ionic shield. <i>Journal of Power Sources</i> , 2017, 342, 9-16.	4.0	15
65	Highly catalytic and stabilized titanium nitride nanowire array-decorated graphite felt electrodes for all vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2017, 341, 318-326.	4.0	134
66	Highly active, bi-functional and metal-free B 4 C-nanoparticle-modified graphite felt electrodes for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2017, 365, 34-42.	4.0	75
67	A highly active biomass-derived electrode for all vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2017, 248, 197-205.	2.6	53
68	An efficient Li <sub>2</sub> S-based lithium-ion sulfur battery realized by a bifunctional electrolyte additive. <i>Nano Energy</i> , 2017, 40, 240-247.	8.2	81
69	A self-cleaning Li-S battery enabled by a bifunctional redox mediator. <i>Journal of Power Sources</i> , 2017, 361, 203-210.	4.0	46
70	Boron phosphide monolayer as a potential anode material for alkali metal-based batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 672-679.	5.2	217
71	Investigation and modeling of CPC based tubular photocatalytic reactor for scaled-up hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16019-16031.	3.8	25
72	Cost-effective carbon supported Fe <sub>2</sub> O <sub>3</sub> nanoparticles as an efficient catalyst for non-aqueous lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2016, 211, 545-551.	2.6	35

#	ARTICLE	IF	CITATIONS
73	A high-performance carbon nanoparticle-decorated graphite felt electrode for vanadium redox flow batteries. <i>Applied Energy</i> , 2016, 176, 74-79.	5.1	145
74	A low-cost iron-cadmium redox flow battery for large-scale energy storage. <i>Journal of Power Sources</i> , 2016, 330, 55-60.	4.0	44
75	Highly stable pyridinium-functionalized cross-linked anion exchange membranes for all vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 331, 452-461.	4.0	92
76	Ab initio prediction of a silicene and graphene heterostructure as an anode material for Li- and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16377-16382.	5.2	149
77	Two-dimensional SiS as a potential anode material for lithium-based batteries: A first-principles study. <i>Journal of Power Sources</i> , 2016, 331, 391-399.	4.0	46
78	Unraveling the Positive Roles of Point Defects on Carbon Surfaces in Nonaqueous Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18394-18402.	1.5	50
79	Polyvinylpyrrolidone-based semi-interpenetrating polymer networks as highly selective and chemically stable membranes for all vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 327, 374-383.	4.0	46
80	In-situ Fabrication of a Freestanding Acrylate-based Hierarchical Electrolyte for Lithium-sulfur Batteries. <i>Electrochimica Acta</i> , 2016, 213, 871-878.	2.6	74
81	Copper nanoparticle-deposited graphite felt electrodes for all vanadium redox flow batteries. <i>Applied Energy</i> , 2016, 180, 386-391.	5.1	166
82	A highly permeable and enhanced surface area carbon-cloth electrode for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 329, 247-254.	4.0	111
83	Performance enhancement of iron-chromium redox flow batteries by employing interdigitated flow fields. <i>Journal of Power Sources</i> , 2016, 327, 258-264.	4.0	93
84	A highly-safe lithium-ion sulfur polymer battery with SnO <sub>2</sub> anode and acrylate-based gel polymer electrolyte. <i>Nano Energy</i> , 2016, 28, 97-105.	8.2	60
85	Facile preparation of high-performance MnO <sub>2</sub> /KB air cathode for Zn-air batteries. <i>Electrochimica Acta</i> , 2016, 222, 1438-1444.	2.6	26
86	The effects of design parameters on the charge-discharge performance of iron-chromium redox flow batteries. <i>Applied Energy</i> , 2016, 182, 204-209.	5.1	83
87	Computational insights into the effect of carbon structures at the atomic level for non-aqueous sodium-oxygen batteries. <i>Journal of Power Sources</i> , 2016, 325, 91-97.	4.0	21
88	Modeling of lithium-sulfur batteries incorporating the effect of Li <sub>2</sub> S precipitation. <i>Journal of Power Sources</i> , 2016, 336, 115-125.	4.0	87
89	A high-performance flow-field structured iron-chromium redox flow battery. <i>Journal of Power Sources</i> , 2016, 324, 738-744.	4.0	145
90	A high-performance dual-scale porous electrode for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016, 325, 329-336.	4.0	157

#	ARTICLE	IF	CITATIONS
91	Borophene: A promising anode material offering high specific capacity and high rate capability for lithium-ion batteries. <i>Nano Energy</i> , 2016, 23, 97-104.	8.2	454
92	Novel gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2016, 22, 278-289.	8.2	382
93	First-Principles Study of Nitrogen-, Boron-Doped Graphene and Co-Doped Graphene as the Potential Catalysts in Nonaqueous $\text{Li}^+\text{O}_2$ Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6612-6618.	1.5	161
94	A nano-structured $\text{RuO}_2/\text{NiO}$ cathode enables the operation of non-aqueous lithium-air batteries in ambient air. <i>Energy and Environmental Science</i> , 2016, 9, 1783-1793.	15.6	142
95	Modeling of anisotropic flow and thermodynamic properties of magnetic nanofluids induced by external magnetic field with varied imposing directions. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	34
96	Study on particle and photonic flux distributions in a magnetically stirred photocatalytic reactor. <i>Journal of Photonics for Energy</i> , 2015, 5, 052097.	0.8	3
97	A high-performance supportless silver nanowire catalyst for anion exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1410-1416.	5.2	73
98	A novel solid-state $\text{Li}^+\text{O}_2$ battery with an integrated electrolyte and cathode structure. <i>Energy and Environmental Science</i> , 2015, 8, 2782-2790.	15.6	111
99	A high-performance sandwiched-porous polybenzimidazole membrane with enhanced alkaline retention for anion exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2015, 8, 2768-2774.	15.6	59
100	Physicochemical properties of alkaline doped polybenzimidazole membranes for anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2015, 493, 340-348.	4.1	77
101	A modified aggregation based model for the accurate prediction of particle distribution and viscosity in magnetic nanofluids. <i>Powder Technology</i> , 2015, 283, 561-569.	2.1	40
102	Carbon-neutral sustainable energy technology: Direct ethanol fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 1462-1468.	8.2	235
103	Fundamental models for flow batteries. <i>Progress in Energy and Combustion Science</i> , 2015, 49, 40-58.	15.8	133
104	A high-rate and long cycle life solid-state lithium-air battery. <i>Energy and Environmental Science</i> , 2015, 8, 3745-3754.	15.6	129
105	A comparative study of all-vanadium and iron-chromium redox flow batteries for large-scale energy storage. <i>Journal of Power Sources</i> , 2015, 300, 438-443.	4.0	251
106	A $\text{RuO}_2$ nanoparticle-decorated buckypaper cathode for non-aqueous lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19042-19049.	5.2	40
107	A transient electrochemical model incorporating the Donnan effect for all-vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2015, 299, 202-211.	4.0	52
108	A vanadium redox flow battery model incorporating the effect of ion concentrations on ion mobility. <i>Applied Energy</i> , 2015, 158, 157-166.	5.1	118

#	ARTICLE	IF	CITATIONS
109	Discharge product morphology versus operating temperature in non-aqueous lithium-air batteries. <i>Journal of Power Sources</i> , 2015, 278, 133-140.	4.0	36
110	The use of polybenzimidazole membranes in vanadium redox flow batteries leading to increased coulombic efficiency and cycling performance. <i>Electrochimica Acta</i> , 2015, 153, 492-498.	2.6	177
111	A low-cost, high-performance zinc-hydrogen peroxide fuel cell. <i>Journal of Power Sources</i> , 2015, 275, 831-834.	4.0	38
112	Modeling of lithium-oxygen batteries with the discharge product treated as a discontinuous deposit layer. <i>Journal of Power Sources</i> , 2015, 273, 440-447.	4.0	39
113	A high-performance ethanol-hydrogen peroxide fuel cell. <i>RSC Advances</i> , 2014, 4, 65031-65034.	1.7	32
114	Performance of a vanadium redox flow battery with and without flow fields. <i>Electrochimica Acta</i> , 2014, 142, 61-67.	2.6	125
115	A micro-porous current collector enabling passive direct methanol fuel cells to operate with highly concentrated fuel. <i>Electrochimica Acta</i> , 2014, 139, 7-12.	2.6	34
116	Nonequilibrium scheme for computing the flux of the convection-diffusion equation in the framework of the lattice Boltzmann method. <i>Physical Review E</i> , 2014, 90, 013305.	0.8	50
117	A gradient porous cathode for non-aqueous lithium-air batteries leading to a high capacity. <i>Electrochemistry Communications</i> , 2014, 46, 111-114.	2.3	54
118	Determination of the mass-transport properties of vanadium ions through the porous electrodes of vanadium redox flow batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10841.	1.3	54
119	Graphene sheets fabricated from disposable paper cups as a catalyst support material for fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 183-187.	5.2	49
120	Numerical investigations of flow field designs for vanadium redox flow batteries. <i>Applied Energy</i> , 2013, 105, 47-56.	5.1	264
121	Preparation of silica nanocomposite anion-exchange membranes with low vanadium-ion crossover for vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2013, 105, 584-592.	2.6	113
122	Mesoporous carbon with uniquely combined electrochemical and mass transport characteristics for polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , 2013, 3, 16-24.	1.7	60
123	Prediction of the theoretical capacity of non-aqueous lithium-air batteries. <i>Applied Energy</i> , 2013, 109, 275-282.	5.1	48
124	Non-precious Co <sub>3</sub> O <sub>4</sub> nano-rod electrocatalyst for oxygen reduction reaction in anion-exchange membrane fuel cells. <i>Energy and Environmental Science</i> , 2012, 5, 5333-5339.	15.6	487
125	Charge carriers in alkaline direct oxidation fuel cells. <i>Energy and Environmental Science</i> , 2012, 5, 7536.	15.6	63
126	An alkaline direct ethanol fuel cell with a cation exchange membrane. <i>Energy and Environmental Science</i> , 2011, 4, 2213.	15.6	85



#	ARTICLE	IF	CITATIONS
127	High performance of a carbon supported ternary PdIrNi catalyst for ethanol electro-oxidation in anion-exchange membrane direct ethanol fuel cells. <i>Energy and Environmental Science</i> , 2011, 4, 1428.	15.6	101
128	Alkaline direct oxidation fuel cell with non-platinum catalysts capable of converting glucose to electricity at high power output. <i>Journal of Power Sources</i> , 2011, 196, 186-190.	4.0	128
129	Recent progress in understanding of coupled heat/mass transport and electrochemical reactions in fuel cells. <i>International Journal of Energy Research</i> , 2011, 35, 15-23.	2.2	9
130	Anion-exchange membrane direct ethanol fuel cells: Status and perspective. <i>Frontiers of Energy and Power Engineering in China</i> , 2010, 4, 443-458.	0.4	89
131	Density Functional Theory Studies of the Structure Sensitivity of Ethanol Oxidation on Palladium Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10489-10497.	1.5	92
132	Mass transport phenomena in direct methanol fuel cells. <i>Progress in Energy and Combustion Science</i> , 2009, 35, 275-292.	15.8	214
133	New DMFC Anode Structure Consisting of Platinum Nanowires Deposited into a Nafion Membrane. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8128-8134.	1.5	71
134	Simulation of fluid flows in the nanometer: kinetic approach and molecular dynamic simulation. <i>International Journal of Computational Fluid Dynamics</i> , 2006, 20, 361-367.	0.5	15
135	A LATTICE BOLTZMANN MODEL FOR CONVECTION HEAT TRANSFER IN POROUS MEDIA. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2005, 47, 157-177.	0.6	239
136	Measurements of Heat Transfer Coefficients From Supercritical Carbon Dioxide Flowing in Horizontal Mini/Micro Channels. <i>Journal of Heat Transfer</i> , 2002, 124, 413-420.	1.2	257
137	A Lattice BGK Scheme with General Propagation. <i>Journal of Scientific Computing</i> , 2001, 16, 569-585.	1.1	52
138	Variations of Buoyancy-Induced Mass Flux From Single-Phase to Two-Phase Flow in a Vertical Porous Tube With Constant Heat Flux. <i>Journal of Heat Transfer</i> , 1999, 121, 646-652.	1.2	10
139	A Numerical Study of Laminar Reciprocating Flow in a Pipe of Finite Length. <i>Flow, Turbulence and Combustion</i> , 1997, 59, 11-25.	0.2	9
140	Oscillatory Heat Transfer in a Pipe Subjected to a Laminar Reciprocating Flow. <i>Journal of Heat Transfer</i> , 1996, 118, 592-597.	1.2	60