Yi-Xiang Shi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Numerical simulation and thermal stress analysis of direct internal reforming SOFCs. International Journal of Green Energy, 2022, 19, 399-409.	2.1	8
2	Local heat transfer enhancement by recirculation flows for temperature gradient reduction in a tubular SOFC. International Journal of Green Energy, 2022, 19, 1132-1147.	2.1	13
3	Lithium transport and intermetallic generation in Li–Bi liquid metal batteries. Electrochimica Acta, 2022, 405, 139779.	2.6	5
4	Modeling the mass transfer and phase transition of Sn-Sb positive electrode in a liquid metal battery. Journal of Electroanalytical Chemistry, 2022, 909, 116144.	1.9	6
5	Sequential separation-driven solar methane reforming for H ₂ derivation under mild conditions. Energy and Environmental Science, 2022, 15, 1861-1871.	15.6	27
6	Local heat generation management for temperature gradient reduction in tubular solid oxide fuel cells. Applied Thermal Engineering, 2022, 211, 118453.	3.0	13
7	Analysis of a biogas-fed SOFC CHP system based on multi-scale hierarchical modeling. Renewable Energy, 2021, 163, 78-87.	4.3	43
8	Elevated temperature pressure swing adsorption using LaNi4.3Al0.7 for efficient hydrogen separation. International Journal of Hydrogen Energy, 2021, 46, 697-708.	3.8	17
9	Distributed hybrid system and prospect of the future Energy Internet. , 2021, , 9-39.		3
10	Bridging a bi-directional connection between electricity and fuels in hybrid multienergy systems. , 2021, , 41-84.		12
11	Ammonia: a clean and efficient energy carrier for distributed hybrid system. , 2021, , 141-177.		0
12	Fabrication and performance of atmospheric plasma sprayed solid oxide fuel cells with liquid antimony anodes. International Journal of Coal Science and Technology, 2021, 8, 360-367.	2.7	6
13	Enhanced Methane Delivery in MIL-101(Cr) by Means of Subambient Cooling. Energy & Fuels, 2021, 35, 6898-6908.	2.5	7
14	Development of new technology for coal gasification purification and research on the formation mechanism of pollutants. International Journal of Coal Science and Technology, 2021, 8, 335-348.	2.7	14
15	Power balance and dynamic stability of a distributed hybrid energy system. , 2021, , 179-206.		0
16	High-efficiency hybrid fuel cell systems for vehicles and micro-CHPs. , 2021, , 85-111.		3
17	Stabilization of intermittent renewable energy using power-to-X. , 2021, , 113-140.		0
18	Cycling Characteristics of Tubular Liquid Antimony Anode Solid Oxide Fuel Cells Prepared by Atmospheric Plasma Spraying. Journal of the Electrochemical Society, 2021, 168, 114502.	1.3	0

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19	Application of elevated temperature pressure swing adsorption in hydrogen production from syngas. Adsorption, 2020, 26, 1227-1237.	1.4	3
20	Pressurized tubular solid oxide H ₂ O/CO ₂ coelectrolysis cell for direct powerâ€toâ€methane. AICHE Journal, 2020, 66, e16896.	1.8	17
21	Structure and CO2 physisorption capacity of hydrotalcite-derived oxide. Journal of CO2 Utilization, 2020, 36, 64-75.	3.3	7
22	Hydrogen Direct Adsorptive Separation: Development Status and Trends. Energy & Fuels, 2020, 34, 15126-15140.	2.5	12
23	Warm hydrogen direct adsorptive separation and purification with highly CO/H2S-tolerant rare earth alloys. Applications in Energy and Combustion Science, 2020, 1-4, 100004.	0.9	1
24	Liquid Antimony Anode for Converting Sulfur-Containing Coal in Direct Carbon Fuel Cells. Journal of the Electrochemical Society, 2020, 167, 084507.	1.3	4
25	Geometric synergy of Steam/Carbon dioxide Co-electrolysis and methanation in a tubular solid oxide Electrolysis cell for direct Power-to-Methane. Energy Conversion and Management, 2020, 208, 112570.	4.4	11
26	Aqueous miscible organic-layered double hydroxides with improved CO2 adsorption capacity. Adsorption, 2020, 26, 1127-1135.	1.4	8
27	Hydrophobic activated carbon for elevated-temperature pressure swing adsorption. Adsorption, 2020, 26, 1093-1100.	1.4	8
28	Simulation and energy consumption comparison of gas purification system based on elevated temperature pressure swing adsorption in ammonia synthetic system. Adsorption, 2020, 26, 1239-1252.	1.4	4
29	Theoretical modeling of a pressurized tubular reversible solid oxide cell for methane production by co-electrolysis. Applied Energy, 2020, 268, 114927.	5.1	8
30	Effects of magnetically induced flow on electrochemical reacting processes in a liquid metal battery. Journal of Power Sources, 2019, 438, 226926.	4.0	12
31	Recent advances in elevated-temperature pressure swing adsorption for carbon capture and hydrogen production. Progress in Energy and Combustion Science, 2019, 75, 100784.	15.8	82
32	Flat-chip flame fuel cell operated on a catalytically enhanced porous media combustor. Energy Conversion and Management, 2019, 196, 443-452.	4.4	16
33	Characteristics of activated carbon in elevated-temperature pressure swing adsorption desulfurization. Adsorption, 2019, 25, 1219-1226.	1.4	6
34	Performance analysis of a reversible solid oxide cell system based on multi-scale hierarchical solid oxide cell modelling. Energy Conversion and Management, 2019, 196, 484-496.	4.4	31
35	On-site demonstration of an elevated temperature hydrogen clean-up unit for fuel cell applications. Adsorption, 2019, 25, 1683-1693.	1.4	6
36	Mechanism of rate-limiting step switchover for reversible solid oxide cells in H2/H2O atmosphere. Electrochimica Acta, 2019, 326, 135003.	2.6	7

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37	Fabrication and Characterization of a Small Tubular Solid Oxide Fuel Cell with the La0.43Ca0.37Ni0.06Ti0.94O3- \hat{I}^3 Anode. ECS Transactions, 2019, 91, 447-456.	0.3	0
38	Sulfur-Resistant Liquid Antimony Anode for Direct Carbon Fuel Cells. ECS Transactions, 2019, 91, 2001-2010.	0.3	2
39	Theoretical Modeling of methane production in pressurized micro-tubular R-SOFC. Energy Procedia, 2019, 158, 2164-2169.	1.8	5
40	Methane Production and Electricity Generation in a Proton Conducting Tubular Reversible Solid Oxide Cell. ECS Transactions, 2019, 91, 2641-2651.	0.3	1
41	A High-Energy Module Containing a Micro-Tubular Solid Oxide Fuel Cell Coupled with Catalytic Partial Oxidation of n-Butane. ECS Transactions, 2019, 91, 339-348.	0.3	2
42	Numerical Model of Direct Internal Reforming SOFC: A Comparison between Anode-Support and Metal-Support. ECS Transactions, 2019, 91, 2013-2022.	0.3	11
43	Micro-tubular solid oxide fuel cell stack operated with catalytically enhanced porous media fuel-rich combustor. Energy, 2019, 179, 154-162.	4.5	21
44	Coupling ammonia catalytic decomposition and electrochemical oxidation for solid oxide fuel cells: A model based on elementary reaction kinetics. Journal of Power Sources, 2019, 423, 125-136.	4.0	37
45	Catalytically enhanced methane-rich combustion by porous media reactor. Fuel, 2019, 248, 65-75.	3.4	20
46	Roles for K2CO3 doping on elevated temperature CO2 adsorption of potassium promoted layered double oxides. Chemical Engineering Journal, 2019, 366, 181-191.	6.6	35
47	Oxy-combustion of coal in liquid-antimony-anode solid oxide fuel cell system. Proceedings of the Combustion Institute, 2019, 37, 2841-2848.	2.4	9
48	Adsorbent Characteristic Regulation and Performance Optimization for Pressure Swing Adsorption via Temperature Elevation. Energy & amp; Fuels, 2019, 33, 1767-1773.	2.5	8
49	Synthesis of elevated temperature CO2 adsorbents from aqueous miscible organic-layered double hydroxides. Energy, 2019, 167, 960-969.	4.5	34
50	Impedance characterization of elevated temperature carbon dioxide adsorption process on potassium-modified hydrotalcite. Separation and Purification Technology, 2019, 212, 670-675.	3.9	3
51	Carbon Dioxide Capture and Utilization—Closing the Carbon Cycle. Energy & Fuels, 2019, 33, 1693-1693.	2.5	7
52	Dynamic analysis of a micro CHP system based on flame fuel cells. Energy Conversion and Management, 2018, 163, 268-277.	4.4	29
53	Highly thermal integrated heat pipe-solid oxide fuel cell. Applied Energy, 2018, 216, 613-619.	5.1	40
54	Exergy analysis of an integrated solid oxide electrolysis cell-methanation reactor for renewable energy storage. Applied Energy, 2018, 215, 371-383.	5.1	66

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55	New hybrid composite honeycomb monolith with 13X zeolite and activated carbon for CO2 capture. Adsorption, 2018, 24, 249-265.	1.4	47
56	Elementary reaction modeling of reversible CO/CO2 electrochemical conversion on patterned nickel electrodes. Journal of Power Sources, 2018, 379, 298-308.	4.0	13
57	Power-to-Gas Energy Storage by Reversible Solid Oxide Cell for Distributed Renewable Power Systems. Journal of Energy Engineering - ASCE, 2018, 144, .	1.0	14
58	Methane partial oxidation in a two-layer porous media burner with Al2O3 pellets of different diameters. Fuel, 2018, 217, 45-50.	3.4	48
59	Synchronous enhancement of H2O/CO2 co-electrolysis and methanation for efficient one-step power-to-methane. Energy Conversion and Management, 2018, 165, 127-136.	4.4	26
60	Regeneration behavior of tin oxide sorbent for warm syngas desulfurization. Journal of Energy Chemistry, 2018, 27, 1231-1238.	7.1	2
61	Oxygen sorption/desorption kinetics of SrCo0.8Fe0.2O3â^î^ perovskite adsorbent for high temperature air separation. Adsorption, 2018, 24, 65-71.	1.4	16
62	A flame fuel cell stack powered by a porous media combustor. International Journal of Hydrogen Energy, 2018, 43, 22595-22603.	3.8	14
63	A robust flat-chip solid oxide fuel cell coupled with catalytic partial oxidation of methane. Journal of Power Sources, 2018, 402, 124-132.	4.0	15
64	Plasma-spray derived, corrosion-resistive electrolyte for liquid antimony anode direct carbon fuel cell. Journal of Power Sources, 2018, 403, 76-81.	4.0	13
65	Two-train elevated-temperature pressure swing adsorption for high-purity hydrogen production. Applied Energy, 2018, 229, 1061-1071.	5.1	28
66	Correlations between adsorbent characteristics and the performance of pressure swing adsorption separation process. Fuel, 2018, 230, 9-17.	3.4	24
67	Thermal Modeling and Management of Solid Oxide Fuel Cells Operating with Internally Reformed Methane. Journal of Thermal Science, 2018, 27, 203-212.	0.9	20
68	Elevated temperature pressure swing adsorption process for reactive separation of CO/CO2 in H2-rich gas. International Journal of Hydrogen Energy, 2018, 43, 13305-13317.	3.8	33
69	CHAPTER 5. System and Processes of Pre-combustion Carbon Dioxide Capture and Separation. Inorganic Materials Series, 2018, , 281-334.	0.5	4
70	Numerical simulation of cell-to-cell performance variation within a syngas-fuelled planar solid oxide fuel cell stack. Applied Thermal Engineering, 2017, 114, 653-662.	3.0	37
71	Development of carboxyl-layered double hydrotalcites of enhanced CO2 capture capacity by K2CO3 promotion. Adsorption, 2017, 23, 239-248.	1.4	20
72	Biogas-fueled flame fuel cell for micro-combined heat and power system. Energy Conversion and Management, 2017, 148, 701-707.	4.4	45

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73	Steam regenerative removal of hydrogen sulfide from hot syngas by a novel tin oxide and yttrium oxide sorbent. Energy, 2017, 122, 214-220.	4.5	6
74	Carbonate-tin composite liquid anode for solid oxide direct carbon fuel cell. International Journal of Hydrogen Energy, 2017, 42, 6324-6331.	3.8	4
75	Syngas production from CO 2 /CH 4 rich combustion in a porous media burner: Experimental characterization and elementary reaction model. Fuel, 2017, 199, 413-419.	3.4	27
76	Performance enhancement of liquid antimony anode fuel cell by in-situ electrochemical assisted oxidation process. Energy, 2017, 125, 526-532.	4.5	4
77	Recent advances in high-temperature carbon–air fuel cells. Energy and Environmental Science, 2017, 10, 460-490.	15.6	98
78	Effect of grain boundary diffusion on electrolyte stability in direct carbon fuel cells with antimony anodes. Ceramics International, 2017, 43, 16575-16579.	2.3	17
79	Dynamic Processes of Mode Switching in Reversible Solid Oxide Fuel Cells. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	23
80	Investigation on the Trace Amount of Released CO in Sorption Enhanced Water Gas Shift Reaction Applied in Pre-combustion CO2 Capture and High Purity H2 Production. Energy Procedia, 2017, 114, 2525-2536.	1.8	4
81	Mutual information for evaluating renewable power penetration impacts in a distributed generation system. Energy, 2017, 141, 290-303.	4.5	7
82	Reversible H 2 /H 2 O electrochemical conversion mechanisms on the patterned nickel electrodes. International Journal of Hydrogen Energy, 2017, 42, 25130-25142.	3.8	21
83	Mechanism for reversible CO/CO2 electrochemical conversion on a patterned nickel electrode. Journal of Power Sources, 2017, 366, 93-104.	4.0	17
84	Highly Thermal-Integrated Flame Fuel Cell Module with High Temperature Heatpipe. ECS Transactions, 2017, 78, 257-264.	0.3	2
85	High-pressure carbon dioxide adsorption kinetics of potassium-modified hydrotalcite at elevated temperature. Fuel, 2017, 207, 579-590.	3.4	31
86	Exergy Efficiency Analysis of a Power-to-Methane System Coupling Water Electrolysis and Sabatier Reaction. ECS Transactions, 2017, 78, 2965-2973.	0.3	3
87	Mathematical Modeling of a Porous Media Burner Based Methane Flame Fuel Cell. Journal of the Electrochemical Society, 2017, 164, E3627-E3634.	1.3	4
88	Reaction Mechanism and Rate-Determining Step Speculation of Reversible CO/CO2Electrochemical Conversion on the Nickel Patterned Electrodes. ECS Transactions, 2017, 78, 1085-1093.	0.3	1
89	Smart tuning of 3D ordered electrocatalysts for enhanced oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 219, 640-644.	10.8	33
90	Anode Fluidization of a Liquid Tin Anode SOFC Operated on Simulated Syngas. ECS Transactions, 2017, 78, 1501-1510.	0.3	1

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91	Highly Thermal-Integrated Flame Fuel Cell Module with High Temperature Heatpipe. Journal of the Electrochemical Society, 2017, 164, F1478-F1482.	1.3	13
92	CO2 residual concentration of potassium-promoted hydrotalcite for deep CO/CO2 purification in H2-rich gas. Journal of Energy Chemistry, 2017, 26, 956-964.	7.1	16
93	Reversible solid oxide fuel cell for natural gas/renewable hybrid power generation systems. Journal of Power Sources, 2017, 340, 60-70.	4.0	46
94	Electrochemical Removal of NOx on Ceria-Based Catalyst-Electrodes. Catalysts, 2017, 7, 61.	1.6	7
95	Strategy for Renewable Energy Storage in a Dynamic Distributed Generation System. Energy Procedia, 2017, 105, 4458-4463.	1.8	8
96	Start-up and operation characteristics of a flame fuel cell unit. Applied Energy, 2016, 178, 415-421.	5.1	38
97	Power and heat co-generation by micro-tubular flame fuel cell on aÂporous media burner. Energy, 2016, 109, 117-123.	4.5	36
98	Elementary Reaction Modeling and Experimental Characterization on Methane Partial Oxidation within a Catalyst-Enhanced Porous Media Combustor. Energy & 2016, 2016, 30, 7778-7785.	2.5	10
99	Elementary reaction modeling and experimental characterization of solid oxide direct carbon-assisted steam electrolysis cells. Solid State Ionics, 2016, 295, 78-89.	1.3	9
100	Characterization on trace carbon monoxide leakage in high purity hydrogen in sorption enhanced water gas shifting process. International Journal of Hydrogen Energy, 2016, 41, 18050-18061.	3.8	14
101	Molecular dynamics study on structure evolution of monocarboxylic acid intercalated layered double hydroxides. RSC Advances, 2016, 6, 98804-98811.	1.7	15
102	A bifunctional solid oxide electrolysis cell for simultaneous CO ₂ utilization and synthesis gas production. Chemical Communications, 2016, 52, 13687-13690.	2.2	10
103	Simultaneous removal of COS and H2S from hot syngas by rare earth metal-doped SnO2 sorbents. Fuel, 2016, 181, 1020-1026.	3.4	33
104	Integrated gasification combined cycle with carbon dioxide capture by elevated temperature pressure swing adsorption. Applied Energy, 2016, 176, 196-208.	5.1	51
105	Liquid Antimony Anode Fluidization within a Tubular Direct Carbon Fuel Cell. Journal of the Electrochemical Society, 2016, 163, F127-F131.	1.3	9
106	Carbon monoxide/carbon dioxide electrochemical conversion on patterned nickel electrodes operating in fuel cell and electrolysis cell modes. International Journal of Hydrogen Energy, 2016, 41, 3762-3773.	3.8	16
107	Performance assessment and optimization of a heat pipe thermal management system for fast charging lithium ion battery packs. International Journal of Heat and Mass Transfer, 2016, 92, 893-903.	2.5	119
108	Numerical investigation on impacts on fuel velocity distribution nonuniformity among solid oxide fuel cell unit channels. International Journal of Hydrogen Energy, 2015, 40, 3035-3047.	3.8	39

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109	Mechanistic modeling of NO electrochemical reduction in a micro-tubular cell: Effects of CO2/H2O components and electrochemical promotion. Chemical Engineering Journal, 2015, 280, 1-8.	6.6	4
110	Synthesis, Pelleting, and Performance Evaluation of a Novel K-Promoted Î ³ -Alumina/MgAl-Layered Double Oxide Composite Adsorbent for Warm Gas H ₂ /CO ₂ Separation. Industrial & Engineering Chemistry Research, 2015, 54, 7154-7163.	1.8	12
111	Layered double oxide/activated carbon-based composite adsorbent for elevated temperature H 2 /CO 2 separation. International Journal of Hydrogen Energy, 2015, 40, 9244-9253.	3.8	37
112	Nitrogen oxide electrochemical reduction characteristics on patterned platinum electrode. Solid State Ionics, 2015, 277, 57-64.	1.3	3
113	Numerical simulation and experimental characterization of the performance evolution of a liquid antimony anode fuel cell. Journal of Power Sources, 2015, 284, 536-546.	4.0	9
114	Numerical analyses on optimizing a heat pipe thermal management system for lithium-ion batteries during fast charging. Applied Thermal Engineering, 2015, 86, 281-291.	3.0	275
115	Elementary Reaction Modeling of Methane Catalytic Combustor: Effects of Hysteresis in Pd-Based Catalyst Activity. Combustion Science and Technology, 2015, 187, 1044-1064.	1.2	2
116	A Nanostructured Architecture for Reducedâ€Temperature Solid Oxide Fuel Cells. Advanced Energy Materials, 2015, 5, 1500375.	10.2	20
117	Experimental Characterization and Theoretical Modeling of Methane Production by H ₂ 0/CO ₂ Co-Electrolysis in a Tubular Solid Oxide Electrolysis Cell. Journal of the Electrochemical Society, 2015, 162, F1129-F1134.	1.3	23
118	Dynamic electro-thermal modeling of co-electrolysis of steam and carbon dioxide in a tubular solid oxide electrolysis cell. Energy, 2015, 89, 637-647.	4.5	42
119	Introducing Anode Fluidization into a Tubular Liquid Antimony Anode Direct Carbon Fuel Cell. ECS Transactions, 2015, 68, 2703-2712.	0.3	0
120	Performance Characteristics of a Micro-tubular Solid Oxide Fuel Cell Operated with a Fuel-rich Methane Flame. ECS Transactions, 2015, 68, 2237-2243.	0.3	13
121	Methane Synthesis Characteristics of H ₂ O/CO ₂ Co-Electrolysis in Tubular Solid Oxide Electrolysis Cells. ECS Transactions, 2015, 68, 3465-3474.	0.3	4
122	Electrochemical impedance characterization on catalytic carbon gasification reaction process. Fuel, 2015, 143, 499-503.	3.4	2
123	Potassium-Promoted γ-Alumina Adsorbent from K ₂ CO ₃ Coagulated Alumina Sol for Warm Gas Carbon Dioxide Separation. ACS Sustainable Chemistry and Engineering, 2015, 3, 111-116.	3.2	14
124	Theoretical modeling of NO electrochemical reduction on multifunctional layer electrode by alternating/direct current electrolysis. Electrochimica Acta, 2015, 152, 202-215.	2.6	2
125	Carbon deposition on patterned nickel/yttria stabilized zirconia electrodes for solid oxide fuel cell/solid oxide electrolysis cell modes. Journal of Power Sources, 2015, 276, 26-31.	4.0	57
126	Elementary reaction modeling of solid oxide electrolysis cells: Main zones for heterogeneous chemical/electrochemical reactions. Journal of Power Sources, 2015, 273, 1-13.	4.0	34

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127	Experimental Characterization and Mechanistic Simulation of CO2 Adsorption/Desorption Processes for Potassium Promoted Hydrotalcites Sorbent. Energy Procedia, 2014, 63, 2359-2366.	1.8	4
128	Techno-economic Evaluation of an Elevated Temperature Pressure Swing Adsorption Process In A 540 MW IGCC Power Plant with CO2 capture. Energy Procedia, 2014, 63, 2016-2022.	1.8	13
129	Experimental Characterization of a Direct Methane Flame Solid Oxide Fuel Cell Power Generation Unit . Journal of the Electrochemical Society, 2014, 161, F1348-F1353.	1.3	26
130	Characteristics of liquid stannum anode fuel cell operated in battery mode and CO/H2/carbon fuel mode. Journal of Power Sources, 2014, 246, 204-212.	4.0	21
131	Comprehensive modeling of tubular solid oxide electrolysis cell for co-electrolysis of steam and carbon dioxide. Energy, 2014, 70, 420-434.	4.5	96
132	Fundamentals of electro- and thermochemistry in the anode of solid-oxide fuel cells with hydrocarbon and syngas fuels. Progress in Energy and Combustion Science, 2014, 40, 74-111.	15.8	158
133	Liquid antimony anode direct carbon fuel cell fueled with mass-produced de-ash coal. Energy, 2014, 75, 555-559.	4.5	22
134	Direct carbon fuel conversion in a liquid antimony anode solid oxide fuel cell. Fuel, 2014, 135, 223-227.	3.4	23
135	An approximate analytical model of reduction of carbon dioxide in solid oxide electrolysis cell by regular and singular perturbation methods. Electrochimica Acta, 2014, 139, 190-200.	2.6	5
136	An electro-thermal model and its application on a spiral-wound lithium ion battery with porous current collectors. Electrochimica Acta, 2014, 121, 143-153.	2.6	21
137	Elevated temperature hydrogen/carbon dioxide separation process simulation by integrating elementary reaction model of hydrotalcite adsorbent. International Journal of Hydrogen Energy, 2014, 39, 3771-3779.	3.8	29
138	Effect of thermal contact resistances on fast charging of large format lithium ion batteries. Electrochimica Acta, 2014, 134, 327-337.	2.6	102
139	A micro tri-generation system based on direct flame fuel cells for residential applications. International Journal of Hydrogen Energy, 2014, 39, 5996-6005.	3.8	49
140	Using potassium catalytic gasification to improve the performance ofÂsolid oxide direct carbon fuel cells: Experimental characterization and elementary reaction modeling. Journal of Power Sources, 2014, 252, 130-137.	4.0	38
141	Thermal shock resistance and failure probability analysis on solid oxide electrolyte direct flame fuel cells. Journal of Power Sources, 2014, 255, 377-386.	4.0	20
142	Theoretical modeling of air electrode operating in SOFC mode and SOEC mode: The effects of microstructure and thickness. International Journal of Hydrogen Energy, 2014, 39, 13738-13750.	3.8	54
143	Polarization characteristics of liquid antimony anode with smooth single-crystal solid oxide electrolyte. Journal of Power Sources, 2014, 245, 164-170.	4.0	18
144	Elementary reaction modeling and experimental characterization of solid oxide fuel-assisted steam electrolysis cells. International Journal of Hydrogen Energy, 2014, 39, 10359-10373.	3.8	39

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145	Two-dimensional simulation of inductively coupled plasma based on COMSOL and comparison with experimental data. Journal of Semiconductors, 2013, 34, 066004.	2.0	19
146	Performance Characteristics of Liquid Antimony Anode Direct Carbon Fuel Cell. ECS Transactions, 2013, 57, 2913-2922.	0.3	4
147	Direct Flame Fuel Cell Performance Using a Multi-Element Diffusion Flame Burner. ECS Transactions, 2013, 57, 279-288.	0.3	4
148	Inkjet Printing of Direct Carbon Solid Oxide Fuel Cell Components. ECS Transactions, 2013, 57, 1359-1369.	0.3	8
149	Mechanism Modeling of Elevated Temperature Pressure Swing Adsorption Process for Pre-combustion CO2 Capture. Energy Procedia, 2013, 37, 2307-2315.	1.8	5
150	Integration of Solid Oxide Fuel Cells with Multi-Element Diffusion Flame Burners. Journal of the Electrochemical Society, 2013, 160, F1241-F1244.	1.3	22
151	Carbon deposition on nickel cermet anodes of solid oxide fuel cells operating on carbon monoxide fuel. Journal of Power Sources, 2013, 225, 1-8.	4.0	34
152	Elementary reaction modeling of CO2/H2O co-electrolysis cell considering effects of cathode thickness. Journal of Power Sources, 2013, 243, 118-130.	4.0	64
153	Experimental characterization and elementary reaction modeling ofÂsolid oxide electrolyte direct carbon fuel cell. Journal of Power Sources, 2013, 243, 159-171.	4.0	27
154	Performance and methane production characteristics of H2O–CO2 co-electrolysis in solid oxide electrolysis cells. International Journal of Hydrogen Energy, 2013, 38, 11104-11109.	3.8	128
155	Elevated Pressure CO2 Adsorption Characteristics of K-promoted Hydrotalcites for Pre-combustion Carbon Capture. Energy Procedia, 2013, 37, 2224-2231.	1.8	7
156	Simulation and evaluation of capacity recovery methods for spiral-wound lithium ion batteries. Journal of Power Sources, 2013, 243, 779-789.	4.0	21
157	High-Performance CO ₂ Adsorbent from Interlayer Potassium-Promoted Stearate-Pillared Hydrotalcite Precursors. Energy & Fuels, 2013, 27, 5352-5358.	2.5	64
158	Effects of interface roughness on a liquid-Sb-anode solid oxide fuel cell. International Journal of Hydrogen Energy, 2013, 38, 15379-15387.	3.8	15
159	Experimental characterization and modeling of the electrochemical reduction of CO2 in solid oxide electrolysis cells. Electrochimica Acta, 2013, 88, 644-653.	2.6	92
160	Electro-thermal cycle life model for lithium iron phosphate battery. Journal of Power Sources, 2012, 217, 509-518.	4.0	135
161	Simulation of EIS spectra and polarization curves based on Ni/YSZ patterned anode elementary reaction models. International Journal of Hydrogen Energy, 2012, 37, 1037-1043.	3.8	14
162	Electro-thermal modeling and experimental validation for lithium ion battery. Journal of Power Sources, 2012, 199, 227-238.	4.0	334

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163	Direct two-dimensional electrochemical impedance spectra simulation for solid oxide fuel cell. Journal of Power Sources, 2012, 208, 24-34.	4.0	16
164	Effect of contact type between anode and carbonaceous fuels on direct carbon fuel cell reaction characteristics. Journal of Power Sources, 2011, 196, 4588-4593.	4.0	45
165	Mechanism for carbon direct electrochemical reactions in a solid oxide electrolyte direct carbon fuel cell. Journal of Power Sources, 2011, 196, 754-763.	4.0	69
166	Experimental characterization and mechanistic modeling of carbon monoxide fueled solid oxide fuel cell cell. Journal of Power Sources, 2011, 196, 5526-5537.	4.0	47
167	Numerical Simulation of Multi-Channel Planar Solid Oxide Fuel Cell Unit by Integrating Continuum Micro-Scale PEN Sub-Model. ECS Transactions, 2011, 35, 1065-1075.	0.3	3
168	Simulation of Two-Dimensional Electrochemical Impedance Spectra of Solid Oxide Fuel Cells Using Transient Physical Models. ECS Transactions, 2011, 35, 871-881.	0.3	2
169	Mathematical modeling of solid oxide fuel cells at high fuel utilization based on diffusion equivalent circuit model. AICHE Journal, 2010, 56, 1363-1371.	1.8	3
170	Elementary reaction kinetic model of an anode-supported solid oxide fuel cell fueled with syngas. Journal of Power Sources, 2010, 195, 2266-2282.	4.0	49
171	A multi-level simulation platform of natural gas internal reforming solid oxide fuel cell–gas turbine hybrid generation system: Part I. Solid oxide fuel cell model library. Journal of Power Sources, 2010, 195, 4871-4892.	4.0	46
172	Performance improvement of direct carbon fuel cell by introducing catalytic gasification process. Journal of Power Sources, 2010, 195, 4660-4666.	4.0	108
173	Multi-level simulation platform of SOFC–GT hybrid generation system. International Journal of Hydrogen Energy, 2010, 35, 2894-2899.	3.8	48
174	Elementary Reaction Models for CO Electrochemical Oxidation on an Ni/YSZ Patterned Anode. , 2010, , .		0
175	C205 EFFECTS OF TEMPERATURE ON DIRECT CARBON FUEL CELL ANODE REACTION CHARACTERISTICS(Fuel) T2-2012-206	ETQq1 1 0.0	0.784314 rg 0
176	Simulation of Electrochemical Impedance Spectra of Solid Oxide Fuel Cells Using Transient Physical Models. Journal of the Electrochemical Society, 2008, 155, B270.	1.3	33
177	A General Approach for Electrochemical Impedance Spectroscopy Simulation using Transient Mechanistic SOFC Model. ECS Transactions, 2007, 7, 1889-1899.	0.3	5
178	Numerical modeling of an anode-supported SOFC button cell considering anodic surface diffusion. Journal of Power Sources, 2007, 164, 639-648.	4.0	113
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