

Wei Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

5,227
citations

38
h-index

68
g-index

138
ext. papers

6,629
ext. citations

10.1
avg, IF

6.46
L-index

#	Paper	IF	Citations
132	Sodium fluoride sacrificing layer concept enables high-efficiency and stable methylammonium lead iodide perovskite solar cells. <i>Journal of Materials Science and Technology</i> , 2022 , 113, 138-146	9.1	4
131	Single-atom catalysts for high-efficiency photocatalytic and photoelectrochemical water splitting: distinctive roles, unique fabrication methods and specific design strategies. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 6835-6871	13	6
130	Realizing Simultaneous Detrimental Reactions Suppression and Multiple Benefits Generation from Nickel Doping toward Improved Protonic Ceramic Fuel Cell Performance.. <i>Small</i> , 2022 , e2200450	11	3
129	Porous rare earth-transition metal bimetallic oxide nanoparticles oxygen electrocatalyst for rechargeable Zinc-air battery. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 134, 104280	5.3	1
128	Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability. <i>Science China Materials</i> , 2022 , 65, 1313-1319	7.1	0
127	Slightly ruthenium doping enables better alloy nanoparticle exsolution of perovskite anode for high-performance direct-ammonia solid oxide fuel cells. <i>Journal of Materials Science and Technology</i> , 2022 , 125, 51-58	9.1	0
126	Two-dimensional Dion-Jacobson halide perovskites as new-generation light absorbers for perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 166, 112614	16.2	1
125	Prussian blue-conjugated ZnO nanoparticles for near-infrared light-responsive photocatalysis. <i>Materials Today Energy</i> , 2021 , 23, 100895	7	2
124	Enhancing the photocatalytic activity of Ruddlesden-Popper Sr ₂ TiO ₄ for hydrogen evolution through synergistic silver doping and moderate reducing pretreatment. <i>Materials Today Energy</i> , 2021 , 23, 100899	7	9
123	Ni-doped CdS porous cubes prepared from prussian blue nanoarchitectonics with enhanced photocatalytic hydrogen evolution performance. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 3752-3752	6.7	1
122	Non-metal fluorine doping in Ruddlesden-Popper perovskite oxide enables high-efficiency photocatalytic water splitting for hydrogen production. <i>Materials Today Energy</i> , 2021 , 100896	7	10
121	Benefitting from Synergistic Effect of Anion and Cation in Antimony Acetate for Stable CH ₃ NH ₃ PbI ₃ -Based Perovskite Solar Cell with Efficiency Beyond 21. <i>Small</i> , 2021 , 17, e2102186	11	6
120	First investigation of additive engineering for highly efficient Cs ₂ AgBiBr ₆ -based lead-free inorganic perovskite solar cells. <i>Applied Physics Reviews</i> , 2021 , 8, 041402	17.3	5
119	A New Pd Doped Proton Conducting Perovskite Oxide with Multiple Functionalities for Efficient and Stable Power Generation from Ammonia at Reduced Temperatures. <i>Advanced Energy Materials</i> , 2021 , 11, 2003916	21.8	25
118	A Direct n-Butane Solid Oxide Fuel Cell Using Ba(ZrCeYYb)NiRuO Perovskite as the Reforming Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20105-20113	9.5	7
117	SrCo _{0.8} Ti _{0.1} Ta _{0.1} O _{3-δ} -perovskite: A new highly active and durable cathode material for intermediate-temperature solid oxide fuel cells. <i>Composites Part B: Engineering</i> , 2021 , 213, 108726	10	13
116	The role of micro-nano pores in interfacial solar evaporation systems [A review]. <i>Applied Energy</i> , 2021 , 292, 116871	10.7	11

115	Promoting polysulfide redox kinetics by Co ₉ S ₈ nanoparticle-embedded in N-doped carbon nanotube hollow polyhedron for lithium sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159306	5.7	7
114	Improving Moisture/Thermal Stability and Efficiency of CH ₃ NH ₃ PbI ₃ -Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. <i>Solar Rrl</i> , 2021 , 5, 2000621	7.1	8
113	Towards highly stable and efficient planar perovskite solar cells: Materials development, defect control and interfacial engineering. <i>Chemical Engineering Journal</i> , 2021 , 420, 127599	14.7	11
112	Vacancy defects on optoelectronic properties of double perovskite Cs ₂ AgBiBr ₆ . <i>Materials Science in Semiconductor Processing</i> , 2021 , 123, 105541	4.3	10
111	High-Quality Ruddlesden-Popper Perovskite Film Formation for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2002582	24	66
110	Cation-Deficient Perovskites for Clean Energy Conversion. <i>Accounts of Materials Research</i> , 2021 , 2, 477-488	7.9	20
109	A bilateral cyano molecule serving as an effective additive enables high-efficiency and stable perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 62, 243-251	12	14
108	Porous MoWN/MoWC@NC Nano-octahedrons synthesized via confined carburization and vapor deposition in MOFs as efficient trifunctional electrocatalysts for oxygen reversible catalysis and hydrogen production in the same electrolyte. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 626-639	9.3	1
107	Morphology- and Phase-Controlled Synthesis of Visible-Light-Activated S-doped TiO ₂ with Tunable S ₄₊ /S ₆₊ Ratio. <i>Chemical Engineering Journal</i> , 2020 , 402, 125549	14.7	17
106	Efficient water splitting through solid oxide electrolysis cells with a new hydrogen electrode derived from A-site cation-deficient La _{0.4} Sr _{0.55} Co _{0.2} Fe _{0.6} Nb _{0.2} O _{3-δ} perovskite. <i>Materials Today Energy</i> , 2020 , 17, 100458	7	16
105	Highly promoted performance of triple-conducting cathode for YSZ-based SOFC via fluorine anion doping. <i>Ceramics International</i> , 2020 , 46, 23964-23971	5.1	15
104	Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Direct-Ammonia Solid Oxide Fuel Cells. <i>Small</i> , 2020 , 16, e2001859	11	30
103	Turning Detrimental Effect into Benefits: Enhanced Oxygen Reduction Reaction Activity of Cobalt-Free Perovskites at Intermediate Temperature CO-Induced Surface Activation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16417-16425	9.5	10
102	Enhancing the oxygen reduction activity of PrBaCo ₂ O _{5+δ} double perovskite cathode by tailoring the calcination temperatures. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 25996-26004	6.7	8
101	A Cobalt-Free Multi-Phase Nanocomposite as Near-Ideal Cathode of Intermediate-Temperature Solid Oxide Fuel Cells Developed by Smart Self-Assembly. <i>Advanced Materials</i> , 2020 , 32, e1906979	24	59
100	Promoting the Efficiency and Stability of CsPbI ₃ -Based All-Inorganic Perovskite Solar Cells through a Functional Cu Doping Strategy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23984-23994	9.5	45
99	Manipulating cation nonstoichiometry towards developing better electrolyte for self-humidified dual-ion solid oxide fuel cells. <i>Journal of Power Sources</i> , 2020 , 460, 228105	8.9	13
98	Perovskite Materials in Photovoltaics. <i>Materials Horizons</i> , 2020 , 175-207	0.6	0

97	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Energy & Fuels</i> , 2020 , 34, 10568-10582	4.1	16
96	High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. <i>Energy & Fuels</i> , 2020 , 34, 11464-11471	4.1	17
95	Ruddlesden-Popper Perovskite Oxides for Photocatalysis-Based Water Splitting and Wastewater Treatment. <i>Energy & Fuels</i> , 2020 , 34, 9208-9221	4.1	22
94	Understanding and Engineering of Multiphase Transport Processes in Membrane Electrode Assembly of Proton-Exchange Membrane Fuel Cells with a Focus on the Cathode Catalyst Layer: A Review. <i>Energy & Fuels</i> , 2020 , 34, 9175-9188	4.1	19
93	Recent Advances in Cs ₂ AgBiBr ₆ -Based Halide Double Perovskites as Lead-Free and Inorganic Light Absorbers for Perovskite Solar Cells. <i>Energy & Fuels</i> , 2020 , 34, 10513-10528	4.1	48
92	Exsolved Alloy Nanoparticles Decorated Ruddlesden-Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. <i>Energy & Fuels</i> , 2020 , 34, 11449-11457	4.1	15
91	Tuning the A-Site Cation Deficiency of La _{0.8} Sr _{0.2} FeO ₃ Perovskite Oxides for High-Efficiency Triiodide Reduction Reaction in Dye-Sensitized Solar Cells. <i>Energy & Fuels</i> , 2020 , 34, 11322-11329	4.1	7
90	Perowskitoxid-Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. <i>Angewandte Chemie</i> , 2020 , 132, 140-158	3.6	5
89	Perovskite Oxide Based Electrodes for High-Performance Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 136-152	16.4	135
88	Scandium and phosphorus co-doped perovskite oxides as high-performance electrocatalysts for the oxygen reduction reaction in an alkaline solution. <i>Journal of Materials Science and Technology</i> , 2020 , 39, 22-27	9.1	10
87	Simultaneous Power Conversion Efficiency and Stability Enhancement of Cs ₂ AgBiBr ₆ Lead-Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer. <i>Advanced Functional Materials</i> , 2020 , 30, 2001557	15.6	90
86	Boosting the Activity of BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O ₃ Perovskite for Oxygen Reduction Reactions at Low-to-Intermediate Temperatures through Tuning B-Site Cation Deficiency. <i>Advanced Energy Materials</i> , 2019 , 9, 1902384	21.8	49
85	Chlorine-Doped Perovskite Oxide: A Platinum-Free Cathode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35641-35652	9.5	11
84	A New Sodium-ion-conducting Layered Perovskite Oxide as Highly Active and Sulfur Tolerant Electrocatalyst for Solid Oxide Fuel Cells. <i>Energy Procedia</i> , 2019 , 158, 1660-1665	2.3	3
83	An Intrinsically Conductive Phosphorus-Doped Perovskite Oxide as a New Cathode for High-Performance Dye-Sensitized Solar Cells by Providing Internal Conducting Pathways. <i>Solar Rrl</i> , 2019 , 3, 1900108	7.1	18
82	Recent advances in anion-doped metal oxides for catalytic applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7280-7300	13	76
81	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803017	21.8	148
80	Evaluation of the CO ₂ tolerant cathode for solid oxide fuel cells: Praseodymium oxysulfates/Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-λ} . <i>Applied Surface Science</i> , 2019 , 472, 10-15	6.7	7

79	A solid oxide carbon fuel cell operating on pomelo peel char with high power output. <i>International Journal of Energy Research</i> , 2019 , 43, 2514-2526	4.5	5
78	Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. <i>Joule</i> , 2019 , 3, 2842-2853	27.8	127
77	A steel slag-derived Boudouard reaction catalyst for improved performance of direct carbon solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2019 , 43, 6970	4.5	5
76	Enhancing the triiodide reduction activity of a perovskite-based electrocatalyst for dye-sensitized solar cells through exsolved silver nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17489-17497	13	24
75	Prussian blue-encapsulated FeO nanoparticles for reusable photothermal sterilization of water. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 354-361	9.3	12
74	Recent Advances in Metal-Organic Framework Derivatives as Oxygen Catalysts for Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 272-289	5.6	87
73	Recent Advances in the Development of Anode Materials for Solid Oxide Fuel Cells Utilizing Liquid Oxygenated Hydrocarbon Fuels: A Mini Review. <i>Energy Technology</i> , 2019 , 7, 33-44	3.5	43
72	Purified high-sulfur coal as a fuel for direct carbon solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2019 , 43, 2501-2513	4.5	9
71	Inherently Catalyzed Boudouard Reaction of Bamboo Biochar for Solid Oxide Fuel Cells with Improved Performance. <i>Energy & Fuels</i> , 2018 , 32, 4559-4568	4.1	8
70	Direct Operation of Solid Oxide Fuel Cells on Low-Concentration Oxygen-Bearing Coal-Bed Methane with High Stability. <i>Energy & Fuels</i> , 2018 , 32, 4547-4558	4.1	7
69	Nitrogen-doped simple and complex oxides for photocatalysis: A review. <i>Progress in Materials Science</i> , 2018 , 92, 33-63	42.2	189
68	Rational Design of Superior, Coking-Resistant, Nickel-Based Anodes through Tailoring Interfacial Reactions for Solid Oxide Fuel Cells Operated on Methane Fuel. <i>ChemSusChem</i> , 2018 , 11, 3112-3119	8.3	10
67	A novel heterogeneous $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3/\text{(La}_{0.5}\text{Sr}_{0.5}\text{)}_2\text{CoO}_4$ dual-phase membrane for oxygen separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018 , 13, e2239	1.3	5
66	ZIF-8@polyoxometalate derived Si-doped ZnWO_4/ZnO nanocapsules with open-shaped structures for efficient visible light photocatalysis. <i>Chemical Communications</i> , 2018 , 54, 13786-13789	5.8	12
65	Rational Design of Perovskite-Based Anode with Decent Activity for Hydrogen Electro-Oxidation and Beneficial Effect of Sulfur for Promoting Power Generation in Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41257-41267	9.5	7
64	Gas Humidification Impact on the Properties and Performance of Perovskite-Type Functional Materials in Proton-Conducting Solid Oxide Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802592	15.6	46
63	Recent progress in metal-organic frameworks for lithium-sulfur batteries. <i>Polyhedron</i> , 2018 , 155, 464-484	2.7	48
62	CeO_2 overlapped with nitrogen-doped carbon layer anchoring Pt nanoparticles as an efficient electrocatalyst towards oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12119-12128	6.7	14

61	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energy-Related Applications. <i>Small Methods</i> , 2018 , 2, 1800071	12.8	169
60	Rational Design of Metal OxideBased Cathodes for Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800172	21.8	23
59	Highly Active and Stable Pt-Pd Alloy Catalysts Synthesized by Room-Temperature Electron Reduction for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2017 , 4, 1600486	13.6	64
58	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , 2017 , 4, 1600371	13.6	440
57	One-pot synthesis of silver-modified sulfur-tolerant anode for SOFCs with an expanded operation temperature window. <i>AIChE Journal</i> , 2017 , 63, 4287-4295	3.6	8
56	Nickel-Iron Alloy Nanoparticle-Decorated K ₂ NiF ₄ -Type Oxide as an Efficient and Sulfur-Tolerant Anode for Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , 2017 , 4, 2378-2384	4.3	29
55	Rational Design of LaNiO ₃ /Carbon Composites as Outstanding Platinum-Free Photocathodes in Dye-Sensitized Solar Cells With Enhanced Catalysis for the Triiodide Reduction Reaction. <i>Solar Rrl</i> , 2017 , 1, 1700074	7.1	20
54	Co-generation of electricity and syngas on proton-conducting solid oxide fuel cell with a perovskite layer as a precursor of a highly efficient reforming catalyst. <i>Journal of Power Sources</i> , 2017 , 348, 9-15	8.9	30
53	Greatly enhanced photocatalytic activity by organic flexible piezoelectric PVDF induced spatial electric field. <i>Catalysis Science and Technology</i> , 2017 , 7, 5594-5601	5.5	26
52	Rational Design of a Water-Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. <i>Advanced Science</i> , 2017 , 4, 1700337	13.6	59
51	Three-Dimensional Bi ₅ O ₇ I Photocatalysts for Efficient Removal of NO in Air Under Visible Light. <i>Aerosol Science and Engineering</i> , 2017 , 1, 33-40	1.6	3
50	Synthesis of Hierarchical TiO ₂ @ ₃ N ₄ Hybrid Microspheres with Enhanced Photocatalytic and Photovoltaic Activities by Maximizing the Synergistic Effect. <i>ChemPhotoChem</i> , 2017 , 1, 35-45	3.3	32
49	H ₂ S poisoning effect and ways to improve sulfur tolerance of nickel cermet anodes operating on carbonaceous fuels. <i>Applied Energy</i> , 2016 , 179, 765-777	10.7	38
48	Perovskite materials in energy storage and conversion. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016 , 11, 338-369	1.3	59
47	Tuning layer-structured La _{0.6} Sr _{1.4} MnO ₄ + into a promising electrode for intermediate-temperature symmetrical solid oxide fuel cells through surface modification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10641-10649	13	45
46	Pt/CNiCoO ₂ composites with ultralow Pt loadings as synergistic bifunctional electrocatalysts for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4516-4524	13	47
45	Stable direct-methane solid oxide fuel cells with calcium-oxide-modified nickel-based anodes operating at reduced temperatures. <i>Applied Energy</i> , 2016 , 164, 563-571	10.7	68
44	Nitrogen-doped TiO ₂ microspheres with hierarchical micro/nanostructures and rich dual-phase junctions for enhanced photocatalytic activity. <i>RSC Advances</i> , 2016 , 6, 40923-40931	3.7	33

43	SrCo _{0.9} Ti _{0.1} O _{3-δ} As a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17663-70	9.5	97
42	Ceramic Lithium Ion Conductor to Solve the Anode Coking Problem of Practical Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2015 , 8, 2978-86	8.3	31
41	Core-shell structured Li _{0.33} La _{0.56} TiO ₃ perovskite as a highly efficient and sulfur-tolerant anode for solid-oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8545-8551	13	29
40	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. <i>Chemical Society Reviews</i> , 2015 , 44, 5371-408	58.5	580
39	Enhanced electrochemical performance, water storage capability and coking resistance of a Ni+BaZr 0.1 Ce 0.7 Y 0.1 Yb 0.1 O 3 anode for solid oxide fuel cells operating on ethanol. <i>Chemical Engineering Science</i> , 2015 , 126, 22-31	4.4	35
38	Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. <i>Advanced Energy Materials</i> , 2015 , 5, 1500188	21.8	96
37	Ethylene glycol as a new sustainable fuel for solid oxide fuel cells with conventional nickel-based anodes. <i>Applied Energy</i> , 2015 , 148, 1-9	10.7	23
36	Single-chamber solid oxide fuel cells with nanocatalyst-modified anodes capable of in situ activation. <i>Journal of Power Sources</i> , 2014 , 264, 220-228	8.9	10
35	Enhanced sulfur tolerance of nickel-based anodes for oxygen-ion conducting solid oxide fuel cells by incorporating a secondary water storing phase. <i>Environmental Science & Technology</i> , 2014 , 48, 12427-34	10.3	21
34	Aluminum oxide as a dual-functional modifier of Ni-based anodes of solid oxide fuel cells for operation on simulated biogas. <i>Journal of Power Sources</i> , 2014 , 268, 787-793	8.9	38
33	A NiFeCu alloy anode catalyst for direct-methane solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014 , 258, 134-141	8.9	53
32	Mixed fuel strategy for carbon deposition mitigation in solid oxide fuel cells at intermediate temperatures. <i>Environmental Science & Technology</i> , 2014 , 48, 7122-7	10.3	11
31	Nickel-based anode with water storage capability to mitigate carbon deposition for direct ethanol solid oxide fuel cells. <i>ChemSusChem</i> , 2014 , 7, 1719-28	8.3	51
30	Coking suppression in solid oxide fuel cells operating on ethanol by applying pyridine as fuel additive. <i>Journal of Power Sources</i> , 2014 , 265, 20-29	8.9	24
29	Progress in solid oxide fuel cells with nickel-based anodes operating on methane and related fuels. <i>Chemical Reviews</i> , 2013 , 113, 8104-51	68.1	342
28	A new nickel/eria composite for direct-methane solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3741-3749	6.7	32
27	Renewable acetic acid in combination with solid oxide fuel cells for sustainable clean electric power generation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5620	13	31
26	Ammonia-mediated suppression of coke formation in direct-methane solid oxide fuel cells with nickel-based anodes. <i>Journal of Power Sources</i> , 2013 , 240, 232-240	8.9	12

25	Nickel zirconia cerate cermet for catalytic partial oxidation of ethanol in a solid oxide fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8603-8612	6.7	20
24	Effect of fabrication method on properties and performance of bimetallic Ni _{0.75} Fe _{0.25} anode catalyst for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9287-9297	6.7	12
23	Iron incorporated NiZrO ₂ catalysts for electric power generation from methane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9801-9808	6.7	11
22	Morphology and Catalytic Performance of Flake-Shaped NiO-Yttria-Stabilized Zirconia (YSZ) Particles with Nanocrystalline YSZ Grains. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 6387-6394	3.9	6
21	Further performance enhancement of a DME-fueled solid oxide fuel cell by applying anode functional catalyst. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6844-6852	6.7	7
20	Study on proton-conducting solid oxide fuel cells with a conventional nickel cermet anode operating on dimethyl ether. <i>Journal of Power Sources</i> , 2011 , 196, 9246-9253	8.9	11
19	Effect of nickel content and preparation method on the performance of Ni-Al ₂ O ₃ towards the applications in solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10958-10967	6.7	26
18	Coke formation and performance of an intermediate-temperature solid oxide fuel cell operating on dimethyl ether fuel. <i>Journal of Power Sources</i> , 2011 , 196, 1967-1974	8.9	33
17	Electrochemical Performance of a Ni and YSZ Composite Synthesised by Ultrasonic Spray Pyrolysis as an Anode for SOFCs. <i>Fuel Cells</i> , 2011 , 11, 654-660	2.9	3
16	Electric Power and Synthesis Gas Co-generation From Methane with Zero Waste Gas Emission. <i>Angewandte Chemie</i> , 2011 , 123, 1832-1837	3.6	18
15	Electric power and synthesis gas co-generation from methane with zero waste gas emission. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1792-7	16.4	63
14	Combustion-synthesized RuAl ₂ O ₃ composites as anode catalyst layer of a solid oxide fuel cell operating on methane. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 755-764	6.7	34
13	Physically mixed LiLaNiAl ₂ O ₃ and copper as conductive anode catalysts in a solid oxide fuel cell for methane internal reforming and partial oxidation. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 5632-5643	6.7	31
12	Lithium and lanthanum promoted Ni-Al ₂ O ₃ as an active and highly coking resistant catalyst layer for solid-oxide fuel cells operating on methane. <i>Journal of Power Sources</i> , 2011 , 196, 90-97	8.9	42
11	A new Gd-promoted nickel catalyst for methane conversion to syngas and as an anode functional layer in a solid oxide fuel cell. <i>Journal of Power Sources</i> , 2011 , 196, 3855-3862	8.9	53
10	Development of a NiCe _{0.8} Zr _{0.2} O ₂ catalyst for solid oxide fuel cells operating on ethanol through internal reforming. <i>Journal of Power Sources</i> , 2011 , 196, 6177-6185	8.9	42
9	Reducing the operation temperature of a solid oxide fuel cell using a conventional nickel-based cermet anode on dimethyl ether fuel through internal partial oxidation. <i>Journal of Power Sources</i> , 2011 , 196, 7601-7608	8.9	10
8	A comprehensive evaluation of a NiAl ₂ O ₃ catalyst as a functional layer of solid-oxide fuel cell anode. <i>Journal of Power Sources</i> , 2010 , 195, 402-411	8.9	41

7	Assessment of nickel cermets and $\text{La}_{0.8}\text{Sr}_{0.2}\text{Sc}_{0.2}\text{Mn}_{0.8}\text{O}_3$ as solid-oxide fuel cell anodes operating on carbon monoxide fuel. <i>Journal of Power Sources</i> , 2010 , 195, 1333-1343	8.9	39
6	Methane catalytic decomposition integrated with on-line Pd membrane hydrogen separation for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2958-2963	6.7	7
5	Methane-fueled SOFC with traditional nickel-based anode by applying $\text{Ni}/\text{Al}_2\text{O}_3$ as a dual-functional layer. <i>Electrochemistry Communications</i> , 2009 , 11, 194-197	5.1	49
4	Partial oxidation and combined reforming of methane on Ce-promoted catalysts. <i>Catalysis Today</i> , 2004 , 98, 553-563	5.3	63
3	Study of $\text{Ag}/\text{La}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ catalysts for complete oxidation of methanol and ethanol at low concentrations. <i>Applied Catalysis B: Environmental</i> , 2000 , 24, 219-232	21.8	80
2	$\text{BaCe}_{0.16}\text{Y}_{0.04}\text{Fe}_{0.8}\text{O}_3$ - ZnO composite: A new high-performance cobalt-free triple-conducting cathode for protonic ceramic fuel cells operating at reduced temperatures. <i>Journal of Materials Chemistry A</i> ,	13	3
1	Perovskite Oxides in Catalytic Combustion of Volatile Organic Compounds: Recent Advances and Future Prospects. <i>Energy and Environmental Materials</i> ,	13	3