Jingâ€‘Li Luo

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Shape-Dependent Electrocatalytic Reduction of CO₂ to CO on Triangular Silver Nanoplates. Journal of the American Chemical Society, 2017, 139, 2160-2163.	6.6	551
2	Recent Advances in MOFâ€Derived Single Atom Catalysts for Electrochemical Applications. Advanced Energy Materials, 2020, 10, 2001561.	10.2	265
3	New Opportunity for <i>in Situ</i> Exsolution of Metallic Nanoparticles on Perovskite Parent. Nano Letters, 2016, 16, 5303-5309.	4.5	222
4	Anion Vacancies Regulating Endows MoSSe with Fast and Stable Potassium Ion Storage. ACS Nano, 2019, 13, 11843-11852.	7.3	210
5	Highly Stable and Efficient Catalyst with In Situ Exsolved Feâ€"Ni Alloy Nanospheres Socketed on an Oxygen Deficient Perovskite for Direct CO₂ Electrolysis. ACS Catalysis, 2016, 6, 6219-6228.	5.5	206
6	Boosting H₂ Generation Coupled with Selective Oxidation of Methanol into Valueâ€Added Chemical over Cobalt Hydroxide@Hydroxysulfide Nanosheets Electrocatalysts. Advanced Functional Materials, 2020, 30, 1909610.	7.8	190
7	A coupling for success: Controlled growth of Co/CoOx nanoshoots on perovskite mesoporous nanofibres as high-performance trifunctional electrocatalysts in alkaline condition. Nano Energy, 2017, 32, 247-254.	8.2	189
8	A-site deficient perovskite: the parent for in situ exsolution of highly active, regenerable nano-particles as SOFC anodes. Journal of Materials Chemistry A, 2015, 3, 11048-11056.	5.2	164
9	Progress in La-doped SrTiO₃(LST)-based anode materials for solid oxide fuel cells. RSC Advances, 2014, 4, 118-131.	1.7	157
10	In situ facile fabrication of Ni(OH)2 nanosheet arrays for electrocatalytic co-production of formate and hydrogen from methanol in alkaline solution. Applied Catalysis B: Environmental, 2021, 281, 119510.	10.8	154
11	Coupling efficient biomass upgrading with H₂ production <i>via</i> bifunctional Cu_xS@NiCo-LDH coreâ€"shell nanoarray electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 1138-1146.	5.2	132
12	Allâ€Inâ€One Perovskite Catalyst: Smart Controls of Architecture and Composition toward Enhanced Oxygen/Hydrogen Evolution Reactions. Advanced Energy Materials, 2017, 7, 1700666.	10.2	124
13	Understanding the Roles of Electrogenerated Co³⁺ and Co⁴⁺ in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie - International Edition, 2021, 60, 20535-20542.	7.2	121
14	Development of electroless Niâ€"P/nano-WC composite coatings and investigation on its properties. Surface and Coatings Technology, 2015, 277, 99-106.	2.2	115
15	Ultrathin 5-fold twinned sub-25 nm silver nanowires enable highly selective electroreduction of CO2 to CO. Nano Energy, 2018, 45, 456-462.	8.2	115
16	A-site-deficiency facilitated in situ growth of bimetallic Niâ€"Fe nano-alloys: a novel coking-tolerant fuel cell anode catalyst. Nanoscale, 2015, 7, 11173-11181.	2.8	107
17	CO₂-to-CO conversion on layered perovskite with in situ exsolved Coâ€"Fe alloy nanoparticles: an active and stable cathode for solid oxide electrolysis cells. Journal of Materials Chemistry A, 2016, 4, 17521-17528.	5.2	106
18	The Excellence of Both Worlds: Developing Effective Double Perovskite Oxide Catalyst of Oxygen Reduction Reaction for Room and Elevated Temperature Applications. Advanced Functional Materials, 2016, 26, 4106-4112.	7.8	106

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19	Novel layered solid oxide fuel cells with multiple-twinned Ni_{0.8}Co_{0.2} nanoparticles: the key to thermally independent CO₂ utilization and power-chemical cogeneration. Energy and Environmental Science, 2016, 9, 207-215.	15.6	103
20	Boosting formate production at high current density from CO2 electroreduction on defect-rich hierarchical mesoporous Bi/Bi2O3 junction nanosheets. Applied Catalysis B: Environmental, 2020, 271, 118957.	10.8	103
21	Highly Active and Redox-Stable Ce-Doped LaSrCrFeO-Based Cathode Catalyst for CO₂ SOECs. ACS Applied Materials & Interfaces, 2016, 8, 6457-6463.	4.0	101
22	Activating p-Blocking Centers in Perovskite for Efficient Water Splitting. CheM, 2018, 4, 2902-2916.	5.8	99
23	Enhancing Perovskite Electrocatalysis of Solid Oxide Cells Through Controlled Exsolution of Nanoparticles. ChemSusChem, 2017, 10, 3333-3341.	3.6	97
24	Wavy SnO2 catalyzed simultaneous reinforcement of carbon dioxide adsorption and activation towards electrochemical conversion of CO2 to HCOOH. Applied Catalysis B: Environmental, 2020, 261, 118243.	10.8	97
25	Double-Layered Perovskite Anode with <i>in Situ</i> Exsolution of a Coâ€"Fe Alloy To Cogenerate Ethylene and Electricity in a Proton-Conducting Ethane Fuel Cell. ACS Catalysis, 2016, 6, 760-768.	5.5	95
26	Anodeâ€Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility. Advanced Materials, 2016, 28, 8922-8926.	11.1	94
27	Stabilizing Double Perovskite for Effective Bifunctional Oxygen Electrocatalysis in Alkaline Conditions. Chemistry of Materials, 2017, 29, 6228-6237.	3.2	94
28	Constructing multifunctional â€˜Nanoplatelet-on-Nanoarrayâ€™ electrocatalyst with unprecedented activity towards novel selective organic oxidation reactions to boost hydrogen production. Applied Catalysis B: Environmental, 2020, 278, 119339.	10.8	93
29	<i>In situ</i> grown cobalt phosphide (CoP) on perovskite nanofibers as an optimized trifunctional electrocatalyst for Znâ€"air batteries and overall water splitting. Journal of Materials Chemistry A, 2019, 7, 26607-26617.	5.2	92
30	<i>In Situ</i> Exsolved Metal Nanoparticles: A Smart Approach for Optimization of Catalysts. Chemistry of Materials, 2020, 32, 5424-5441.	3.2	89
31	Valueâ€Added Formate Production from Selective Methanol Oxidation as Anodic Reaction to Enhance Electrochemical Hydrogen Cogeneration. ChemSusChem, 2020, 13, 914-921.	3.6	87
32	Pr₂BaNiMnO_{7âˆ'Î´} double-layered Ruddlesdenâ€"Popper perovskite oxides as efficient cathode electrocatalysts for low temperature proton conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 7704-7712.	5.2	84
33	Hollow NiSe Nanocrystals Heterogenized with Carbon Nanotubes for Efficient Electrocatalytic Methanol Upgrading to Boost Hydrogen Coâ€Production. Advanced Functional Materials, 2021, 31, 2008812.	7.8	84
34	Co P@NiCo-LDH heteronanosheet arrays as efficient bifunctional electrocatalysts for co-generation of value-added formate and hydrogen with less-energy consumption. Journal of Energy Chemistry, 2020, 50, 314-323.	7.1	83
35	A strongly cooperative spinel nanohybrid as an efficient bifunctional oxygen electrocatalyst for oxygen reduction reaction and oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 236, 413-419.	10.8	82
36	A mechanistic study on thiosulfate-enhanced passivity degradation of Alloy 800 in chloride solutions. Electrochimica Acta, 2013, 111, 510-525.	2.6	81

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37	Unraveling Structure Sensitivity in CO₂ Electroreduction to Near-Unity CO on Silver Nanocubes. ACS Catalysis, 2020, 10, 3158-3163.	5.5	80
38	Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO₂ Electroreduction to Formate. ACS Catalysis, 2021, 11, 7604-7612.	5.5	80
39	The excellence of La(Sr)Fe(Ni)O₃ as an active and efficient cathode for direct CO₂ electrochemical reduction at elevated temperatures. Journal of Materials Chemistry A, 2017, 5, 2673-2680.	5.2	78
40	Reviewâ€"Electrochemical Noise Applied in Corrosion Science: Theoretical and Mathematical Models towards Quantitative Analysis. Journal of the Electrochemical Society, 2020, 167, 081507.	1.3	78
41	Rational Design of Silver Sulfide Nanowires for Efficient CO₂ Electroreduction in Ionic Liquid. ACS Catalysis, 2018, 8, 1469-1475.	5.5	76
42	CO2-emission-free electrocatalytic CH3OH selective upgrading with high productivity at large current densities for energy saved hydrogen co-generation. Nano Energy, 2021, 80, 105530.	8.2	76
43	Bifunctional Catalyst of Coreâ€"Shell Nanoparticles Socketed on Oxygen-Deficient Layered Perovskite for Soot Combustion: <i>In Situ</i> Observation of Synergistic Dual Active Sites. ACS Catalysis, 2016, 6, 2710-2714.	5.5	70
44	Correlation of Fuel Cell Anode Electrocatalytic and ex situ Catalytic Activity of Perovskites La_{0.75}Sr_{0.25}Cr_{0.5}X_{0.5}O_{3â^'Î´} (X = Ti, Mn, Fe,) Tj ET Q q 0 0 0 rg BT /Ove	[illegible]	68
45	Effects of hydrogen and stress on the electrochemical and passivation behaviour of 304 stainless steel in simulated PEMFC environment. Electrochimica Acta, 2019, 293, 60-77.	2.6	68
46	Reducing d-p band coupling to enhance CO2 electrocatalytic activity by Mg-doping in Sr2FeMoO6-Î´ double perovskite for high performance solid oxide electrolysis cells. Nano Energy, 2021, 82, 105707.	8.2	67
47	Bifunctional Ptâ€"Co₃O₄ electrocatalysts for simultaneous generation of hydrogen and formate <i>via</i> energy-saving alkaline seawater/methanol co-electrolysis. Journal of Materials Chemistry A, 2021, 9, 6316-6324.	5.2	65
48	Unraveling the effects of CO2 and H2S on the corrosion behavior of electroless Ni-P coating in CO2/H2S/Clâ€" environments at high temperature and high pressure. Corrosion Science, 2019, 148, 317-330.	3.0	63
49	Y-doped BaCeO3â^'Î´ nanopowders as proton-conducting electrolyte materials for ethane fuel cells to co-generate ethylene and electricity. Journal of Power Sources, 2010, 195, 2659-2663.	4.0	62
50	Hierarchically assembling cobalt/nickel carbonate hydroxide on copper nitride nanowires for highly efficient water splitting. Applied Catalysis B: Environmental, 2021, 292, 120148.	10.8	62
51	Ultrasmall Bi nanoparticles confined in carbon nanosheets as highly active and durable catalysts for CO2 electroreduction. Applied Catalysis B: Environmental, 2021, 284, 119723.	10.8	61
52	A rational design for enhanced oxygen reduction: Strongly coupled silver nanoparticles and engineered perovskite nanofibers. Nano Energy, 2017, 38, 392-400.	8.2	60
53	Cogeneration of ethylene and energy in protonic fuel cell with an efficient and stable anode anchored with in-situ exsolved functional metal nanoparticles. Applied Catalysis B: Environmental, 2018, 220, 283-289.	10.8	60
54	Constructing novel cross-linked polybenzimidazole network for high-performance high-temperature proton exchange membrane. Journal of Membrane Science, 2022, 643, 120037.	4.1	60

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55	A study on corrosion behaviors of Niâ€“Crâ€“Mo laser coating, 316 stainless steel and X70 steel in simulated solutions with H2S and CO2. Surface and Coatings Technology, 2016, 291, 250-257.	2.2	57
56	Developing hierarchically porous MnO_x/NC hybrid nanorods for oxygen reduction and evolution catalysis. Green Chemistry, 2017, 19, 2793-2797.	4.6	57
57	Effect of defect on corrosion behavior of electroless Ni-P coating in CO2-saturated NaCl solution. Corrosion Science, 2018, 134, 23-37.	3.0	57
58	Carbon nanofibers@NiSe core/sheath nanostructures as efficient electrocatalysts for integrating highly selective methanol conversion and less-energy intensive hydrogen production. Journal of Materials Chemistry A, 2019, 7, 25878-25886.	5.2	57
59	CO2 dry reforming of CH4 with Sr and Ni co-doped LaCrO3 perovskite catalysts. Applied Surface Science, 2020, 506, 144699.	3.1	57
60	Cobalt doped LaSrTiO3â^'Î´ as an anode catalyst: effect of Co nanoparticle precipitation on SOFCs operating on H2S-containing hydrogen. Journal of Materials Chemistry A, 2013, 1, 9689.	5.2	56
61	Carbon-tolerant Ni-based cermet anodes modified by proton conducting yttrium- and ytterbium-doped barium cerates for direct methane solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 21609-21617.	5.2	56
62	A facile surface chemistry approach to bifunctional excellence for perovskite electrocatalysis. Nano Energy, 2018, 49, 117-125.	8.2	55
63	Corrosion and wear resistance of chrome white ironsâ€"A correlation to their composition and microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 3029-3038.	1.1	54
64	Enhancing Sulfur Tolerance of Ni-Based Cermet Anodes of Solid Oxide Fuel Cells by Ytterbium-Doped Barium Cerate Infiltration. ACS Applied Materials & Interfaces, 2016, 8, 10293-10301.	4.0	54
65	Interfaceâ€Induced Electrocatalytic Enhancement of CO₂â€toâ€Formate Conversion on Heterostructured Bismuthâ€Based Catalysts. Small, 2022, 18, e2105682.	5.2	53
66	Smart utilization of cobaltite-based double perovskite cathodes on barrier-layer-free zirconia electrolyte of solid oxide fuel cells. Journal of Materials Chemistry A, 2016, 4, 19019-19025.	5.2	51
67	Hexagonal Zn Nanoplates Enclosed by Zn(100) and Zn(002) Facets for Highly Selective CO₂ Electroreduction to CO. ACS Applied Materials & Interfaces, 2020, 12, 31431-31438.	4.0	51
68	Interfacial engineering of Cu2Se/Co3Se4 multivalent hetero-nanocrystals for energy-efficient electrocatalytic co-generation of value-added chemicals and hydrogen. Applied Catalysis B: Environmental, 2021, 285, 119800.	10.8	51
69	Constructing stable continuous proton transport channels by in-situ preparation of covalent triazine-based frameworks in phosphoric acid-doped polybenzimidazole for high-temperature proton exchange membranes. Journal of Membrane Science, 2021, 640, 119775.	4.1	51
70	Tuning adsorption strength of CO2 and its intermediates on tin oxide-based electrocatalyst for efficient CO2 reduction towards carbonaceous products. Applied Catalysis B: Environmental, 2020, 277, 119252.	10.8	50
71	Phosphoric acid-doped polybenzimidazole with a leaf-like three-layer porous structure as a high-temperature proton exchange membrane for fuel cells. Journal of Materials Chemistry A, 2021, 9, 26345-26353.	5.2	50
72	Ethane dehydrogenation over nano-Cr2O3 anode catalyst in proton ceramic fuel cell reactors to co-produce ethylene and electricity. Journal of Power Sources, 2011, 196, 1036-1041.	4.0	49

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73	A-site deficient chromite perovskite with in situ exsolution of nano-Fe: a promising bi-functional catalyst bridging the growth of CNTs and SOFCs. Journal of Materials Chemistry A, 2015, 3, 14625-14630.	5.2	49
74	Phase-field model of pitting corrosion kinetics in metallic materials. Npj Computational Materials, 2018, 4, .	3.5	49
75	Bi₂O₃ Nanosheets Grown on Carbon Nanofiber with Inherent Hydrophobicity for High-Performance CO₂ Electroreduction in a Wide Potential Window. ACS Nano, 2021, 15, 17757-17768.	7.3	47
76	The evolution of hierarchical porosity in self-templated nitrogen-doped carbons and its effect on oxygen reduction electrocatalysis. RSC Advances, 2016, 6, 80398-80407.	1.7	46
77	Electrochemical Transformation of Facetâ€Controlled BiOI into Mesoporous Bismuth Nanosheets for Selective Electrocatalytic Reduction of CO₂ to Formic Acid. ChemSusChem, 2019, 12, 4700-4707.	3.6	46
78	Modeling the effect of insoluble corrosion products on pitting corrosion kinetics of metals. Npj Materials Degradation, 2019, 3, .	2.6	46
79	Î³-MnO2 nanorod-assembled hierarchical micro-spheres with oxygen vacancies to enhance electrocatalytic performance toward the oxygen reduction reaction for aluminum-air batteries. Journal of Energy Chemistry, 2020, 51, 81-89.	7.1	45
80	Nanotubular surface modification of metallic implants via electrochemical anodization technique. International Journal of Nanomedicine, 2014, 9, 4421.	3.3	43
81	Toward Excellence of Electrocatalyst Design by Emerging Descriptorâ€Oriented Machine Learning. Advanced Functional Materials, 2022, 32, .	7.8	43
82	An ingenious Ni/Ce co-doped titanate based perovskite as a coking-tolerant anode material for direct hydrocarbon solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 22830-22838.	5.2	42
83	Fabrication and characterization of a tubular ceramic fuel cell based on BaZr0.1Ce0.7Y0.1Yb0.1O3-Î´ proton conducting electrolyte. Journal of Power Sources, 2017, 341, 264-269.	4.0	42
84	Reviewâ€"Factors Influencing Sulfur Induced Corrosion on the Secondary Side in Pressurized Water Reactors (PWRs). Journal of the Electrochemical Society, 2019, 166, C49-C64.	1.3	42
85	Descriptor of catalytic activity of metal sulfides for oxygen reduction reaction: a potential indicator for mineral flotation. Journal of Materials Chemistry A, 2018, 6, 9650-9656.	5.2	41
86	Electrolyte Driven Highly Selective CO₂ Electroreduction at Low Overpotentials. ACS Catalysis, 2019, 9, 10440-10447.	5.5	41
87	Sensing corrosion within an artificial defect in organic coating using SECM. Sensors and Actuators B: Chemical, 2019, 280, 235-242.	4.0	41
88	Metal-support interaction enhanced electrochemical reduction of CO2 to formate between graphene and Bi nanoparticles. Journal of CO2 Utilization, 2020, 37, 353-359.	3.3	41
89	UnravelingÂthe Enhanced Kinetics of Sr₂Fe₁₊<i>_x</i>Mo_{1â€}<i>_x</i>O<sub>6â€Î´</sub Electrocatalysts for Highâ€Performance Solid Oxide Cells. Advanced Energy Materials, 2021, 11, 2102845.	10.2	41
90	Sulfur-Tolerant Anode Catalyst for Solid Oxide Fuel Cells Operating on H2S-Containing Syngas. Chemistry of Materials, 2010, 22, 1032-1037.	3.2	40

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91	Hollow Porous Ag Spherical Catalysts for Highly Efficient and Selective Electrocatalytic Reduction of CO₂ to CO. ACS Sustainable Chemistry and Engineering, 2019, 7, 14443-14450.	3.2	40
92	Toward a rational photocatalyst design: a new formation strategy of co-catalyst/semiconductor heterostructures <i>via in situ</i> exsolution. Chemical Communications, 2018, 54, 1505-1508.	2.2	39
93	Gum Arabic as corrosion inhibitor in the oil industry: experimental and theoretical studies. Corrosion Engineering Science and Technology, 2019, 54, 444-454.	0.7	39
94	A High-Performance Ruddlesdenâ€“Popper Perovskite for Bifunctional Oxygen Electrocatalysis. ACS Catalysis, 2020, 10, 13437-13444.	5.5	39
95	Folic acid self-assembly synthesis of ultrathin N-doped carbon nanosheets with single-atom metal catalysts. Energy Storage Materials, 2021, 36, 409-416.	9.5	39
96	Folic Acid Self-Assembly Enabling Manganese Single-Atom Electrocatalyst for Selective Nitrogen Reduction to Ammonia. Nano-Micro Letters, 2021, 13, 125.	14.4	39
97	La0.5Sr0.5Fe0.9Mo0.1O3-Î´-CeO2 anode catalyst for Co-Producing electricity and ethylene from ethane in proton-conducting solid oxide fuel cells. Ceramics International, 2021, 47, 24106-24114.	2.3	39
98	pH Effect on Sulfur-Induced Passivity Degradation of Alloy 800 in Simulated Crevice Chemistries. Journal of the Electrochemical Society, 2014, 161, C201-C214.	1.3	38
99	Facile Preparation of Self-Standing Hierarchical Porous Nitrogen-Doped Carbon Fibers for Supercapacitors from Plant Proteinâ€“Lignin Electrospun Fibers. ACS Omega, 2018, 3, 4647-4656.	1.6	38
100	A-site deficient perovskite with nano-socketed Ni-Fe alloy particles as highly active and durable catalyst for high-temperature CO2 electrolysis. Electrochimica Acta, 2020, 335, 135683.	2.6	38
101	All roads lead to Rome: An energy-saving integrated electrocatalytic CO2 reduction system for concurrent value-added formate production. Chemical Engineering Journal, 2021, 412, 127893.	6.6	38
102	Combating marine corrosion on engineered oxide surface by repelling, blocking and capturing Clâˆ’: A mini review. Corrosion Communications, 2021, 2, 1-7.	2.7	38
103	Performance of Ethane/Oxygen Fuel Cells Using Yttrium-Doped Barium Cerate as Electrolyte at Intermediate Temperatures. Journal of Physical Chemistry C, 2007, 111, 5069-5074.	1.5	37
104	Alternative Fuel Cell Technologies for Cogenerating Electrical Power and Syngas from Greenhouse Gases. ACS Energy Letters, 2017, 2, 1789-1796.	8.8	37
105	Characterization of microstructure and properties of electroless duplex Ni-W-P/Ni-P nano-ZrO2 composite coating. Materials Today Physics, 2018, 4, 36-42.	2.9	37
106	Achieving ultrahigh corrosion resistance and conductive zirconium oxynitride coating on metal bipolar plates by plasma enhanced atomic layer deposition. Journal of Power Sources, 2018, 397, 32-36.	4.0	37
107	Multi-functionalities enabled fivefold applications of LaCo0.6Ni0.4O3âˆ’Î´ in intermediate temperature symmetrical solid oxide fuel/electrolysis cells. Nano Energy, 2020, 77, 105207.	8.2	37
108	Carbon Dioxide Valorization via Formate Electrosynthesis in a Wide Potential Window. Advanced Functional Materials, 2022, 32, .	7.8	37

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109	Sulfur induced corrosion (SIC) mechanism of steam generator (SG) tubing at micro scale: A critical review. Materials Chemistry and Physics, 2019, 233, 133-140.	2.0	36
110	Efficient bifunctional electrocatalysts for solid oxide cells based on the structural evolution of perovskites with abundant defects and exsolved CoFe nanoparticles. Journal of Power Sources, 2021, 482, 228981.	4.0	36
111	Ca-containing Ba0Â·95Ca0Â·05Co0Â·4Fe0Â·4Zr0Â·1Y0Â·1O3-Î´ cathode with high CO2-poisoning tolerance for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 453, 227909.	4.0	35
112	Tuning local carbon active sites saturability of graphitic carbon nitride to boost CO2 electroreduction towards CH4. Nano Energy, 2020, 73, 104833.	8.2	35
113	Electrochemical exfoliation from an industrial ingot: ultrathin metallic bismuth nanosheets for excellent CO₂ capture and electrocatalytic conversion. Nanoscale, 2019, 11, 22125-22133.	2.8	34
114	Protonic membrane for fuel cell for co-generation of power and ethylene. Journal of Power Sources, 2008, 176, 122-127.	4.0	31
115	An integral proton conducting SOFC for simultaneous production of ethylene and power from ethane. Chemical Communications, 2010, 46, 2052.	2.2	31
116	Understanding the interaction of thiosulfate with Alloy 800 in aqueous chloride solutions using SECM. Journal of Electroanalytical Chemistry, 2015, 744, 77-84.	1.9	31
117	Microwave-assisted hydrothermal synthesis of MOFs-derived bimetallic CuCo-N/C electrocatalyst for efficient oxygen reduction reaction. Journal of Alloys and Compounds, 2019, 795, 462-470.	2.8	31
118	Enhancing through-plane electrical conductivity by introducing Au microdots onto TiN coated metal bipolar plates of PEMFCs. International Journal of Hydrogen Energy, 2020, 45, 29442-29448.	3.8	31
119	In situ embedding of CoFe nanocatalysts into Sr3FeMoO7 matrix as high-performance anode materials for solid oxide fuel cells. Journal of Power Sources, 2020, 459, 228071.	4.0	31
120	Constructing proton transport channels in low phosphoric-acid doped polybenzimidazole membrane by introducing metalâ€"organic frameworks containing phosphoric-acid groups. Journal of Power Sources, 2021, 507, 230316.	4.0	31
121	Semiconductivity conversion of Alloy 800 in sulphate, thiosulphate, and chloride solutions. Corrosion Science, 2014, 87, 265-277.	3.0	30
122	Biogas to syngas: flexible on-cell micro-reformer and NiSn bimetallic nanoparticle implanted solid oxide fuel cells for efficient energy conversion. Journal of Materials Chemistry A, 2016, 4, 4603-4609.	5.2	30
123	Carbon-resistant Ni-Zr0.92Y0.08O2-Î´ supported solid oxide fuel cells using Ni-Cu-Fe alloy cermet as on-cell reforming catalyst and mixed methane-steam as fuel. Journal of Power Sources, 2016, 303, 340-346.	4.0	30
124	<i>In situ</i> construction of hetero-structured perovskite composites with exsolved Fe and Cu metallic nanoparticles as efficient CO₂ reduction electrocatalysts for high performance solid oxide electrolysis cells. Journal of Materials Chemistry A, 2022, 10, 2509-2518.	5.2	30
125	Achieving Efficient CO₂ Electrochemical Reduction on Tunable In(OH)₃-Coupled Cu₂O-Derived Hybrid Catalysts. ACS Applied Materials & Interfaces, 2019, 11, 22346-22351.	4.0	28
126	A mechanistic study on sulfur-induced passivity degradation on Alloy 800 in simulated alkaline crevice chemistries at temperatures ranging from 21 Â°C to 300 Â°C. Corrosion Science, 2015, 100, 504-516.	3.0	27

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127	Facile Synthesis of Highly Active and Robust Niâ€"Mo Bimetallic Electrocatalyst for Hydrocarbon Oxidation in Solid Oxide Fuel Cells. ACS Energy Letters, 2016, 1, 225-230.	8.8	27
128	Grafting doped manganite into nickel anode enables efficient and durable energy conversions in biogas solid oxide fuel cells. Applied Catalysis B: Environmental, 2017, 200, 174-181.	10.8	27
129	Insights into the Interfacial Process in Electroless Niâ€"P Coating on Supercritical CO₂Transport Pipeline as Relevant to Carbon Capture and Storage. ACS Applied Materials & Interfaces, 2019, 11, 16243-16251.	4.0	27
130	Exploring Ni(Mn_{1/3}Cr_{2/3})₂O₄ spinel-based electrodes for solid oxide cells. Journal of Materials Chemistry A, 2020, 8, 3988-3998.	5.2	27
131	High-Temperature Electrochemical Devices Based on Dense Ceramic Membranes for CO2 Conversion and Utilization. Electrochemical Energy Reviews, 2021, 4, 518-544.	13.1	27
132	Silverâ€coated copper nanowires with improved antiâ€oxidation property as conductive fillers in lowâ€density polyethylene. Canadian Journal of Chemical Engineering, 2013, 91, 630-637.	0.9	26
133	Developing a Thermal- and Coking-Resistant Cobaltâ€"Tungsten Bimetallic Anode Catalyst for Solid Oxide Fuel Cells. ACS Catalysis, 2016, 6, 4630-4634.	5.5	26
134	Toward highly efficient in situ dry reforming of H₂S contaminated methane in solid oxide fuel cells via incorporating a coke/sulfur resistant bimetallic catalyst layer. Journal of Materials Chemistry A, 2016, 4, 9080-9087.	5.2	26
135	Understanding the Roles of Electrogenerated Co³⁺ and Co⁴⁺ in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie, 2021, 133, 20698-20705.	1.6	25
136	Fabrication of bi-layered proton conducting membrane for hydrocarbon solid oxide fuel cell reactors. Electrochimica Acta, 2010, 55, 1145-1149.	2.6	24
137	Corrosion Mechanisms and Materials Selection for the Construction of Flue Gas Component in Advanced Heat and Power Systems. Industrial & Engineering Chemistry Research, 2017, 56, 14141-14154.	1.8	24
138	Electrochemical oxidation of sour natural gas over La0.4Ce0.6O1.8â€"La0.4Sr0.6TiO3Â±Î´ anode in SOFC: A mechanism study of H2S effects. Applied Catalysis B: Environmental, 2015, 176-177, 627-636.	10.8	23
139	Co₂CrO₄ Nanopowders as an Anode Catalyst for Simultaneous Conversion of Ethane to Ethylene and Power in Proton-Conducting Fuel Cell Reactors. Journal of Physical Chemistry C, 2018, 122, 4165-4171.	1.5	23
140	Investigation on the flow-induced corrosion and degradation behavior of underground J55 pipe in a water production well in the Athabasca oil sands reservoir. Journal of Petroleum Science and Engineering, 2019, 182, 106325.	2.1	23
141	Characterization and corrosion behavior of electroless Ni-Mo-P/Ni-P composite coating in CO2/H2S/Clâˆ' brine: Effects of Mo addition and heat treatment. Surface and Coatings Technology, 2020, 403, 126416.	2.2	23
142	Insights into the erosion-enhanced corrosion on electroless Niâ€"P coating from single particle impingement. Corrosion Science, 2020, 166, 108422.	3.0	22
143	Cogeneration of ethylene and electricity in symmetrical protonic solid oxide fuel cells based on a La_{0.6}Sr_{0.4}Fe_{0.8}Nb_{0.1}Cu_{0.1}O_{3âˆ'Î´} electrode. Journal of Materials Chemistry A, 2020, 8, 25978-25985.	5.2	22
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