

Switching on electrocatalytic activity in solid oxide cells

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Citation Report

#	ARTICLE	IF	CITATIONS
2	An emerging platform for electrocatalysis: perovskite exsolution. <i>Science Bulletin</i> , 2016, 61, 1783-1784.	4.3	17
3	Tracking the structural evolution at atomic-scale in the spinel Mn_3O_4 induced by electrochemical cycling. <i>Electrochemistry Communications</i> , 2016, 72, 166-170.	2.3	7
4	Strategies for Carbon and Sulfur Tolerant Solid Oxide Fuel Cell Materials, Incorporating Lessons from Heterogeneous Catalysis. <i>Chemical Reviews</i> , 2016, 116, 13633-13684.	23.0	229
5	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. <i>Small</i> , 2017, 13, 1603793.	5.2	277
6	Three dimensional printing of components and functional devices for energy and environmental applications. <i>Energy and Environmental Science</i> , 2017, 10, 846-859.	15.6	228
7	A review of high temperature co-electrolysis of H_2O and CO_2 to produce sustainable fuels using solid oxide electrolysis cells (SOECs): advanced materials and technology. <i>Chemical Society Reviews</i> , 2017, 46, 1427-1463.	18.7	515
8	In situ growth of Pt_3Ni nanoparticles on an A-site deficient perovskite with enhanced activity for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6399-6404.	5.2	70
9	Electrochemical reduction of CO_2 in solid oxide electrolysis cells. <i>Journal of Energy Chemistry</i> , 2017, 26, 593-601.	7.1	108
10	Synthesis and characterization of bi-component $ZnSnO_3/Zn_2SnO_4$ (perovskite/spinel) nano-composites for photocatalytic degradation of Intracron Blue: Structural, opto-electronic and morphology study. <i>Journal of Molecular Liquids</i> , 2017, 238, 397-401.	2.3	34
11	Green synthesis of carbon quantum dots embedded onto titanium dioxide nanowires for enhancing photocurrent. <i>Royal Society Open Science</i> , 2017, 4, 161051.	1.1	37
12	Recent Progress on Advanced Materials for Solid Oxide Fuel Cells Operating Below 500 °C. <i>Advanced Materials</i> , 2017, 29, 1700132.	11.1	257
13	Highly active and stable $Er_{0.4}Bi_{1.6}O_3$ decorated $La_{0.76}Sr_{0.19}MnO_{3+\delta}$ nanostructured oxygen electrodes for reversible solid oxide cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12149-12157.	5.2	63
14	Nickel-Chromium Alloy Nanoparticle-Decorated K_2NiF_4 -Type Oxide as an Efficient and Sulfur-Tolerant Anode for Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , 2017, 4, 2378-2384.	1.7	34
15	Efficient CO_2 electrolysis with scandium doped titanate cathode. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8197-8206.	3.8	27
16	A novel high performance composite anode with in situ growth of Fe-Ni alloy nanoparticles for intermediate solid oxide fuel cells. <i>Electrochimica Acta</i> , 2017, 235, 317-322.	2.6	46
17	Mo-doped $Pr_{0.6}Sr_{0.4}Fe_{0.8}Ni_{0.2}O_{3-\delta}$ as potential electrodes for intermediate-temperature symmetrical solid oxide fuel cells. <i>Electrochimica Acta</i> , 2017, 227, 33-40.	2.6	73
18	Controlling cation segregation in perovskite-based electrodes for high electro-catalytic activity and durability. <i>Chemical Society Reviews</i> , 2017, 46, 6345-6378.	18.7	246
19	Mechanistic Understanding and the Rational Design of Sinter-Resistant Heterogeneous Catalysts. <i>ACS Catalysis</i> , 2017, 7, 7156-7173.	5.5	214

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20	Modeling the impedance spectra of mixed conducting thin films with exposed and embedded current collectors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26310-26321.	1.3	17
21	High-Affinity-Assisted Nanoscale Alloys as Remarkable Bifunctional Catalyst for Alcohol Oxidation and Oxygen Reduction Reactions. <i>ACS Nano</i> , 2017, 11, 7729-7735.	7.3	101
22	Demonstration of chemistry at a point through restructuring and catalytic activation at anchored nanoparticles. <i>Nature Communications</i> , 2017, 8, 1855.	5.8	121
23	Enhanced electrochemical property of La _{0.6} Sr _{0.4} Co _{0.8} Fe _{0.2} O ₃ as cathode for solid oxide fuel cell by efficient in situ polarization-exsolution treatment. <i>Electrochimica Acta</i> , 2017, 258, 1096-1105.	2.6	28
24	Thermo-electrochemical production of compressed hydrogen from methane with near-zero energy loss. <i>Nature Energy</i> , 2017, 2, 923-931.	19.8	178
26	Enhancing Perovskite Electrocatalysis of Solid Oxide Cells Through Controlled Exsolution of Nanoparticles. <i>ChemSusChem</i> , 2017, 10, 3333-3341.	3.6	97
27	Bi-component cobalt metatitanate and cobalt oxide nano-composite for high efficient photocatalytic degradation of triazo Direct Blue 71: synthesis, characterization and surface properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11013-11019.	1.1	3
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33	Nanomaterials and technologies for low temperature solid oxide fuel cells: Recent advances, challenges and opportunities. <i>Nano Energy</i> , 2018, 45, 148-176.	8.2	363
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35	Re-activation of degraded nickel cermet anodes - Nano-particle formation via reverse current pulses. <i>Journal of Power Sources</i> , 2018, 377, 110-120.	4.0	20
36	Nb and Pd co-doped La _{0.57} Sr _{0.38} Co _{0.19} Fe _{0.665} Nb _{0.095} Pd _{0.05} O _{3-δ} as a stable, high performance electrode for barrier-layer-free Y ₂ O ₃ -ZrO ₂ electrolyte of solid oxide fuel cells. <i>Journal of Power Sources</i> , 2018, 378, 433-442.	4.0	48
37	Direct Electrolysis of CO ₂ in Symmetrical Solid Oxide Electrolysis Cell Based on La _{0.6} Sr _{0.4} Fe _{0.8} Ni _{0.2} O _{3-δ} Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, F17-F23.	1.3	82
38	Highly efficient electrochemical reforming of CH ₄ /CO ₂ in a solid oxide electrolyser. <i>Science Advances</i> , 2018, 4, eaar5100.	4.7	136

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40	Exceptionally High Performance Anode Material Based on Lattice Structure Decorated Double Perovskite $\text{Sr}_{2/3}\text{FeMo}_{2/3}\text{Mg}_{1/3}\text{O}_{6-\delta}$ for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800062.	10.2	62
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42	Evolution of Exsolved Nanoparticles on a Perovskite Oxide Surface during a Redox Process. <i>Chemistry of Materials</i> , 2018, 30, 2838-2847.	3.2	77
43	Ni-Substituted $\text{Sr}(\text{Ti},\text{Fe})\text{O}_3$ SOFC Anodes: Achieving High Performance via Metal Alloy Nanoparticle Exsolution. <i>Joule</i> , 2018, 2, 478-496.	11.7	220
44	Nanomaterials for solid oxide fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 353-368.	8.2	333
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53	Investigation of real polarization resistance for electrode performance in proton-conducting electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18508-18517.	5.2	51
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57	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energy-Related Applications. <i>Small Methods</i> , 2018, 2, 1800071.	4.6	285
58	Energetics of Nanoparticle Exsolution from Perovskite Oxides. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3772-3778.	2.1	65
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72	Approaching Durable Single-Layer Fuel Cells: Promotion of Electroactivity and Charge Separation via Nanoalloy Redox Exsolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27924-27933.	4.0	74
73	Model System Supported Impedance Simulation of Composite Electrodes. <i>Fuel Cells</i> , 2019, 19, 417-428.	1.5	6
74	Detrimental phase evolution triggered by Ni in perovskite-type cathodes for CO_2 electroreduction. <i>Journal of Energy Chemistry</i> , 2019, 36, 87-94.	7.1	38

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99	High-throughput, super-resolution 3D reconstruction of nano-structured solid oxide fuel cell electrodes and quantification of microstructure-property relationships. Journal of Power Sources, 2019, 427, 112-119.	4.0	26
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109	Unravelling inherent electrocatalysis of mixed-conducting oxide activated by metal nanoparticle for fuel cell electrodes. Nature Nanotechnology, 2019, 14, 245-251.	15.6	84
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131	Surface decorated La _{0.43} Ca _{0.37} Ni _{0.06} Ti _{0.94} O ₃ as an anode functional layer for solid oxide fuel cell applications. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1440-1444.	1.2	3
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