Jeongwon Kim

List of Publications by Year
in descending order

157 papers	8,974 citations	36203 51 h-index	48187 88 g-index
163 all docs	163 docs citations	163 times ranked	6775 citing authors

#	Article	IF	Citations
1	Layered oxygen-deficient double perovskite as an efficient and stable anode for direct hydrocarbon solid oxide fuel cells. Nature Materials, 2015, 14, 205-209.	13.3	605
2	Rapid oxygen ion diffusion and surface exchange kinetics in PrBaCo2O5+x with a perovskite related structure and ordered A cations. Journal of Materials Chemistry, 2007, 17, 2500.	6.7	515
3	Exsolution trends and co-segregation aspects of self-grown catalyst nanoparticles in perovskites. Nature Communications, 2017, 8, 15967.	5.8	305
4	Highly efficient and robust cathode materials for low-temperature solid oxide fuel cells: PrBa0.5Sr0.5Co2âˆ’xFexO5+Î´. Scientific Reports, 2013, 3, 2426.	1.6	285
5	Tripleâ€Conducting Layered Perovskites as Cathode Materials for Protonâ€Conducting Solid Oxide Fuel Cells. ChemSusChem, 2014, 7, 2811-2815.	3.6	257
6	A Highly Efficient and Robust Cation Ordered Perovskite Oxide as a Bifunctional Catalyst for Rechargeable Zinc-Air Batteries. ACS Nano, 2017, 11, 11594-11601.	7.3	219
7	Hybrid-solid oxide electrolysis cell: A new strategy for efficient hydrogen production. Nano Energy, 2018, 44, 121-126.	8.2	209
8	Efficient Reduction of CO[sub 2] in a Solid Oxide Electrolyzer. Electrochemical and Solid-State Letters, 2008, 11, B167.	2.2	199
9	Perovskite as a Cathode Material: A Review of its Role in Solidâ€Oxide Fuel Cell Technology. ChemElectroChem, 2016, 3, 511-530.	1.7	197
10	Development of Doubleâ€Perovskite Compounds as Cathode Materials for Lowâ€Temperature Solid Oxide Fuel Cells. Angewandte Chemie - International Edition, 2014, 53, 13064-13067.	7.2	176
11	In-situ local phase-transitioned MoSe2 in La0.5Sr0.5CoO3-Î´ heterostructure and stable overall water electrolysis over 1000 hours. Nature Communications, 2019, 10, 1723.	5.8	143
12	Investigation of the Structural and Catalytic Requirements for High-Performance SOFC Anodes Formed by Infiltration of LSCM. Electrochemical and Solid-State Letters, 2009, 12, B48.	2.2	139
13	Engineering Composite Oxide SOFC Anodes for Efficient Oxidation of Methane. Electrochemical and Solid-State Letters, 2008, 11, B16.	2.2	129
14	Electrochemical integration of amorphous NiFe (oxy)hydroxides on surface-activated carbon fibers for high-efficiency oxygen evolution in alkaline anion exchange membrane water electrolysis. Journal of Materials Chemistry A, 2021, 9, 14043-14051.	5.2	127
15	Defect-Free Encapsulation of Fe⁰ in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. Journal of the American Chemical Society, 2018, 140, 1737-1742.	6.6	124
16	Etched Graphite with Internally Grown Si Nanowires from Pores as an Anode for High Density Li-Ion Batteries. Nano Letters, 2013, 13, 3403-3407.	4.5	120
17	Cation-swapped homogeneous nanoparticles in perovskite oxides for highÂpower density. Nature Communications, 2019, 10, 697.	5.8	119
18	SOFC Anodes Based on Infiltration of La[sub 0.3]Sr[sub 0.7]TiO[sub 3]. Journal of the Electrochemical Society, 2008, 155, B1179.	1.3	118

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19	Fe@C2N: A highly-efficient indirect-contact oxygen reduction catalyst. Nano Energy, 2018, 44, 304-310.	8.2	118
20	Enhancing Bifunctional Electrocatalytic Activities via Metal d-Band Center Lift Induced by Oxygen Vacancy on the Subsurface of Perovskites. ACS Catalysis, 2020, 10, 4664-4670.	5.5	116
21	Oxygen exchange kinetics of epitaxial PrBaCo2O5+Î´ thin films. Applied Physics Letters, 2006, 88, 024103.	1.5	114
22	Synergistic interaction of perovskite oxides and N-doped graphene in versatile electrocatalyst. Journal of Materials Chemistry A, 2019, 7, 2048-2054.	5.2	104
23	Dopants to enhance SOFC cathodes based on Sr-doped LaFeO3 and LaMnO3. Journal of Power Sources, 2010, 195, 720-728.	4.0	97
24	A robust symmetrical electrode with layered perovskite structure for direct hydrocarbon solid oxide fuel cells: PrBa_{0.8}Ca_{0.2}Mn₂O_{5+Î´}. Journal of Materials Chemistry A, 2016, 4, 1747-1753.	5.2	93
25	Synergistic Coupling Derived Cobalt Oxide with Nitrogenated Holey Two-Dimensional Matrix as an Efficient Bifunctional Catalyst for Metalâ€"Air Batteries. ACS Nano, 2019, 13, 5502-5512.	7.3	87
26	A Tailored Bifunctional Electrocatalyst: Boosting Oxygen Reduction/Evolution Catalysis via Electron Transfer Between Nâ€Doped Graphene and Perovskite Oxides. Small, 2018, 14, e1802767.	5.2	85
27	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. Small, 2017, 13, 1701167.	5.2	82
28	Highly active dry methane reforming catalysts with boosted in situ grown Ni-Fe nanoparticles on perovskite via atomic layer deposition. Science Advances, 2020, 6, eabb1573.	4.7	79
29	Optimization of Sr content in layered SmBa1â€"Sr Co2O5+ perovskite cathodes for intermediate-temperature solid oxideÂfuel cells. International Journal of Hydrogen Energy, 2012, 37, 18381-18388.	3.8	77
30	Antimony-doped graphene nanoplatelets. Nature Communications, 2015, 6, 7123.	5.8	77
31	The effect of calcium doping on the improvement of performance and durability in a layered perovskite cathode for intermediate-temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 6088-6095.	5.2	77
32	Self-assembled alloy nanoparticles in a layered double perovskite as a fuel oxidation catalyst for solid oxide fuel cells. Journal of Materials Chemistry A, 2018, 6, 15947-15953.	5.2	77
33	Review on exsolution and its driving forces in perovskites. JPhys Energy, 2020, 2, 032001.	2.3	75
34	High Performance SOFC Cathode Prepared by Infiltration of Lanâ€‰+â€‰1NinO3nâ€‰+â€‰1 (nâ€‰=â€‰1, 2, and 3) in Porous YSZ. Journal of the Electrochemical Society, 2011, 158, B995.	1.3	74
35	Chemically Stable Perovskites as Cathode Materials for Solid Oxide Fuel Cells: Laâ€Doped Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'<i>Î´</i>}. ChemSusChem, 2014, 7, 1669-1675.	3.6	74
36	Thermodynamic and electrical properties of Ba0.5Sr0.5Co0.8Fe0.2O3â^' and La0.6Sr0.4Co0.2Fe0.8O3â^' for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2013, 89, 372-376.	2.6	73

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37	Achieving High Efficiency and Eliminating Degradation in Solid Oxide Electrochemical Cells Using High Oxygenâ€Capacity Perovskite. Angewandte Chemie - International Edition, 2016, 55, 12512-12515.	7.2	73
38	Oxygen deficient layered double perovskite as an active cathode for CO₂ electrolysis using a solid oxide conductor. Faraday Discussions, 2015, 182, 227-239.	1.6	71
39	Measurement of oxygen transport kinetics in epitaxial La2NiO4+Î´ thin films by electrical conductivity relaxation. Solid State Ionics, 2006, 177, 1461-1467.	1.3	70
40	Nanocomposites: A New Opportunity for Developing Highly Active and Durable Bifunctional Air Electrodes for Reversible Protonic Ceramic Cells. Advanced Energy Materials, 2021, 11, 2101899.	10.2	70
41	The electrochemical and thermodynamic characterization of PrBaCo2âˆ’Fe O5+ (x= 0, 0.5, 1) infiltrated into yttria-stabilized zirconia scaffold as cathodes for solid oxide fuel cells. Journal of Power Sources, 2012, 201, 10-17.	4.0	68
42	Composite cathodes composed of NdBa_{0.5}Sr_{0.5}Co₂O_{5+Î´}and Ce_{0.9}Gd_{0.1}O_{1.95}for intermediate-temperature solid oxidefuel cells. Journal of Materials Chemistry A, 2013, 1, 515-519.	5.2	66
43	Enhancing Thermocatalytic Activities by Upshifting the dâ€Band Center of Exsolved Coâ€Niâ€Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. Angewandte Chemie - International Edition, 2021, 60, 15912-15919.	7.2	65
44	Influence of Ca-doping in layered perovskite PrBaCo₂O_{5+Î´} on the phase transition and cathodic performance of a solid oxide fuel cell. Journal of Materials Chemistry A, 2016, 4, 6479-6486.	5.2	64
45	Conductivityâ€Dependent Completion of Oxygen Reduction on Oxide Catalysts. Angewandte Chemie - International Edition, 2015, 54, 15730-15733.	7.2	62
46	Promotion of oxygen reduction reaction on a double perovskite electrode by a water-induced surface modification. Energy and Environmental Science, 2021, 14, 1506-1516.	15.6	62
47	Investigation of layered perovskite type NdBa1âˆ’Sr Co2O5+ (x= 0, 0.25, 0.5, 0.75, and 1.0) cathodes for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2013, 100, 44-50.	2.6	60
48	Polypyrrole-assisted oxygen electrocatalysis on perovskite oxides. Energy and Environmental Science, 2017, 10, 523-527.	15.6	60
49	Activation and Ripening of Impregnated Manganese Containing Perovskite SOFC Electrodes under Redox Cycling. Chemistry of Materials, 2009, 21, 1077-1084.	3.2	58
50	Optimization of La1âˆ’Sr CoO3âˆ’ perovskite cathodes for intermediate temperature solid oxide fuel cells through the analysis of crystal structure and electrical properties. International Journal of Hydrogen Energy, 2014, 39, 20806-20811.	3.8	58
51	Nanostructured Double Perovskite Cathode With Low Sintering Temperature For Intermediate Temperature Solid Oxide Fuel Cells. ChemSusChem, 2015, 8, 3153-3158.	3.6	56
52	Cloud-like graphene nanoplatelets on Nd_{0.5}Sr_{0.5}CoO_{3âˆ’Î´} nanorods as an efficient bifunctional electrocatalyst for hybrid Liâ€“air batteries. Journal of Materials Chemistry A, 2016, 4, 2122-2127.	5.2	54
53	A highly efficient composite cathode for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 451, 227812.	4.0	54
54	SOFC Anodes Based on LSTâ€“YSZ Composites and on Y[sub 0.04]Ce[sub 0.48]Zr[sub 0.48]O[sub 2]. Journal of the Electrochemical Society, 2008, 155, B360.	1.3	53

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55	Strontium Doping Effect on High-Performance PrBa1-xSrxCo2O5+Â as a Cathode Material for IT-SOFCs. ECS Electrochemistry Letters, 2012, 1, F29-F32.	1.9	53
56	Electrochemical Properties of Nanocrystalline La_{0.5}Sr_{0.5}CoO_{3â^'<i>x</i>} Thin Films. Chemistry of Materials, 2010, 22, 776-782.	3.2	52
57	A collaborative study of sintering and composite effects for a PrBa_{0.5}Sr_{0.5}Co_{1.5}Fe_{0.5}O_{5+Î´}IT-SOFC cathode. RSC Advances, 2014, 4, 1775-1781.	1.7	50
58	Self-Decorated MnO Nanoparticles on Double Perovskite Solid Oxide Fuel Cell Anode by <i>in Situ</i> Exsolution. ACS Sustainable Chemistry and Engineering, 2017, 5, 9207-9213.	3.2	50
59	Thermodynamic and electrical characteristics of NdBaCo₂O₅_{+Î´}at various oxidation and reduction states. Journal of Materials Chemistry, 2011, 21, 439-443.	6.7	49
60	Correlation between fast oxygen kinetics and enhanced performance in Fe doped layered perovskite cathodes for solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 15082-15090.	5.2	48
61	Fe@Nâ€Graphene Nanoplateletâ€Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction. Advanced Science, 2016, 3, 1500205.	5.6	47
62	Effect of Mn on the electrochemical properties of a layered perovskite NdBa0.5Sr0.5Co2â^'Mn O5+ (x= 0,) Tj ETQq0 0 0 rgBT /Overlock	2.6	45
63	Progress and potential for symmetrical solid oxide electrolysis cells. Matter, 2022, 5, 482-514.	5.0	44
64	A Composite Catalyst Based on Perovskites for Overall Water Splitting in Alkaline Conditions. ChemElectroChem, 2019, 6, 1520-1524.	1.7	42
65	Effect of <scp><scp>Fe</scp></scp> Doping on Layered <scp><scp>GdBa</scp></scp>_{0.5}<scp><scp>Sr</scp></scp>_{0.5}<scp><scp>Co</scp></scp><sub>2</sub Perovskite Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Journal of the American Ceramic Society, 2014, 97, 651-656.	1.9	41
66	In-situ coalesced vacancies on MoSe2 mimicking noble metal: Unprecedented Tafel reaction in hydrogen evolution. Nano Energy, 2019, 63, 103846.	8.2	41
67	Electrochemical investigation of strontium doping effect on high performance Pr1â^'Sr CoO3â^' (x= 0.1,) Tj ETQq1 1 0.784314 rgBT /O Sources, 2012, 210, 172-177.	4.0	40
68	Efficient CO2 Utilization via a Hybrid Na-CO2 System Based on CO2 Dissolution. IScience, 2018, 9, 278-285.	1.9	40
69	Epitaxial behavior and transport properties of PrBaCo2O5 thin films on (001) SrTiO3. Applied Physics Letters, 2007, 90, 212111.	1.5	39
70	High redox and performance stability of layered SmBa0.5Sr0.5Co1.5Cu0.5O5+Î´ perovskite cathodes for intermediate-temperature solid oxide fuel cells. Physical Chemistry Chemical Physics, 2013, 15, 19906.	1.3	38
71	Mechanistic insights into the phase transition and metal ex-solution phenomena of Pr_{0.5}Ba_{0.5}Mn_{0.85}Co_{0.15}O_{3â^'Î´} from simple to layered perovskite under reducing conditions and enhanced catalytic activity. Energy and Environmental Science, 2021, 14, 873-882.	15.6	37
72	Tailoring Ni-based catalyst by alloying with transition metals (M = Ni, Co, Cu, and Fe) for direct hydrocarbon utilization of energy conversion devices.. Electrochimica Acta, 2017, 225, 399-406.	2.6	36

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73	Assessment of perovskite-type La0.8Sr0.2Sc Mn1âˆ’O3â€“ oxides as anodes for intermediate-temperature solid oxide fuel cells using hydrocarbon fuels. Journal of Power Sources, 2011, 196, 3083-3088.	4.0	35
74	Robust fused aromatic pyrazine-based two-dimensional network for stably cocooning iron nanoparticles as an oxygen reduction electrocatalyst. Nano Energy, 2019, 56, 581-587.	8.2	35
75	Tradeoff optimization of electrochemical performance and thermal expansion for Co-based cathode material for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2014, 125, 683-690.	2.6	34
76	Allâ€Nanomat Lithiumâ€Ion Batteries: A New Cell Architecture Platform for Ultrahigh Energy Density and Mechanical Flexibility. Advanced Energy Materials, 2017, 7, 1701099.	10.2	34
77	Enhanced reducibility of ceriaâ€“YSZ composites in solid oxide electrodes. Journal of Materials Chemistry, 2008, 18, 2386.	6.7	33
78	Highly Efficient CO₂ Utilization via Aqueous Zincâ€“ or Aluminumâ€“CO₂ Systems for Hydrogen Gas Evolution and Electricity Production. Angewandte Chemie - International Edition, 2019, 58, 9506-9511.	7.2	33
79	Impedance studies of dense polycrystalline thin films of La2NiO4+?. Journal of Materials Chemistry, 2007, 17, 1316.	6.7	32
80	Chemical compatibility, redox behavior, and electrochemical performance of Nd1âˆ’Sr CoO3âˆ’ cathodes based on Ce1.9Gd0.1O1.95 for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2012, 81, 217-223.	2.6	31
81	Electrochemical behavior of Ba0.5Sr0.5Co0.2âˆ’xZnxFe0.8O3âˆ’Î´ (xÂ=Â0â€“0.2) perovskite oxides for the cathode of solid oxide fuel cells. International Journal of Hydrogen Energy, 2011, 36, 6184-6193.	3.8	30
82	Enhancing Sulfur Tolerance of a Ni-YSZ Anode through BaZr_{0.1}Ce_{0.7}Y_{0.1}Yb_{0.1}O_{3âˆ’<i>Î´</i>}Infiltration. Journal of the Electrochemical Society, 2014, 161, F668-F673.	1.3	29
83	A rigorous electrochemical ammonia electrolysis protocol with <i>in operando</i> quantitative analysis. Journal of Materials Chemistry A, 2021, 9, 11571-11579.	5.2	29
84	Comparative characterization of thermodynamic, electrical, and electrochemical properties of Sm0.5Sr0.5Co1âˆ’Nb O3âˆ’ (xÂ=Â0, 0.05, and 0.1) as cathode materials in intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2013, 226, 1-7.	4.0	28
85	Investigation of the Fe doping effect on the B-site of the layered perovskite PrBa0.8Ca0.2Co2O5+ for a promising cathode material of the intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2019, 44, 1088-1095.	3.8	28
86	Unveiling the key factor for the phase reconstruction and exsolved metallic particle distribution in perovskites. Nature Communications, 2021, 12, 6814.	5.8	28
87	Electrical properties, thermodynamic behavior, and defect analysis of Lan+1NinO3n+1+Î´ infiltrated into YSZ scaffolds as cathodes for intermediate-temperature SOFCs. RSC Advances, 2012, 2, 4648.	1.7	27
88	Electrochemical properties of an ordered perovskite LaBaCo2O5+â€“Ce0.9Gd0.1O2âˆ’ composite cathode with strontium doping for intermediate-temperature solid oxide fuel cells. Electrochemistry Communications, 2013, 34, 5-8.	2.3	27
89	Monolithic heteronanomat paper air cathodes toward origami-foldable/rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 24231-24238.	5.2	27
90	Electrokinetic Proton Transport in Triple (H⁺/O^{2âˆ’}/e^{âˆ’}) Conducting Oxides as a Key Descriptor for Highly Efficient Protonic Ceramic Fuel Cells. Advanced Science, 2021, 8, e2004099.	5.6	27

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91	Self-reconstructed interlayer derived by in-situ Mn diffusion from La0.5Sr0.5MnO3 via atomic layer deposition for an efficient bi-functional electrocatalyst. Nano Energy, 2020, 71, 104564.	8.2	26
92	Thermodynamic and Electrical Properties of Layered Perovskite NdBaCo2â˘'xFexO5+Î´â˘'YSZ (xâ€‰=â€‰0, 1) Composites for Intermediate Temperature SOFC Cathodes. Journal of the Electrochemical Society, 2011, 158, B632.	1.3	25
93	Structural, electrical and electrochemical characteristics of La_{0.1}Sr_{0.9}Co_{1â˘'x}Nb_xO_{3â˘'Î´} as a cathode material for intermediate temperature solid oxide fuel cells. RSC Advances, 2014, 4, 18710-18717.	1.7	25
94	Nano-perovskite oxide prepared via inverse microemulsion mediated synthesis for catalyst of lithium-air batteries. Electrochimica Acta, 2018, 275, 248-255.	2.6	25
95	Co₃O₄ Exsolved Defective Layered Perovskite Oxide for Energy Storage Systems. ACS Energy Letters, 2020, 5, 3828-3836.	8.8	25
96	Indirect surpassing CO2 utilization in membrane-free CO2 battery. Nano Energy, 2021, 82, 105741.	8.2	25
97	Edge-selective decoration with ruthenium at graphitic nanoplatelets for efficient hydrogen production at universal pH. Nano Energy, 2020, 76, 105114.	8.2	25
98	Ammonium hexavanadate nanorods prepared by homogeneous precipitation using urea as cathodes for lithium batteries. Solid State Ionics, 2010, 181, 311-314.	1.3	24
99	Decreasing interfacial losses with catalysts in La 0.9 Ca 0.1 FeO 3â€"Î´ membranes for syngas production. Applied Catalysis A: General, 2014, 486, 259-265.	2.2	23
100	Catalytic Dynamics and Oxygen Diffusion in Doped PrBaCo₂O_{5.5+Î´} Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 24353-24359.	4.0	23
101	Structural, Electrical, and Electrochemical Characteristics of LnBa_{0.5}Sr_{0.5}Co_{1.5}Fe_{0.5}O_{5+<i>Î´</i>} (Ln=Pr,) Tj ETQq1 1 0.784314 rg 2017, 5, 1337-1343.	1.8	23
102	Electrochemical properties of B-site Ni doped layered perovskite cathodes for IT-SOFCs. International Journal of Hydrogen Energy, 2014, 39, 20791-20798.	3.8	22
103	Influence of Cathode Porosity on High Performance Protonic Ceramic Fuel Cells with PrBa_{0.5}Sr_{0.5}Co_{1.5}Fe_{0.5}O_{5-Î´} Cathode. Journal of the Electrochemical Society, 2018, 165, F1098-F1102.	1.3	22
104	Advanced Electrochemical Properties of PrBa_{0.5}Sr_{0.5}Co_{1.9}Ni_{0.1}O_{5+<i>Î´</i>} as a Bifunctional Catalyst for Rechargeable Zincâ€Air Batteries. ChemElectroChem, 2019, 6, 3154-3159.	1.7	21
105	Investigation of a Layered Perovskite for IT-SOFC Cathodes: B-Site Fe-Doped YBa_{0.5}Sr_{0.5}Co₂₋<i>_x</i>Fe<i>_x</i>O<i>_{5+Î´}</i Journal of the Electrochemical Society, 2016, 163, F1489-F1495.	1.3	20
106	An Efficient Oxygen Evolution Catalyst for Hybrid Lithium Air Batteries: Almond Stick Type Composite of Perovskite and Cobalt Oxide. Journal of the Electrochemical Society, 2016, 163, A1893-A1897.	1.3	19
107	Scandium Doping Effect on a Layered Perovskite Cathode for Low-Temperature Solid Oxide Fuel Cells (LT-SOFCs). Applied Sciences (Switzerland), 2018, 8, 2217.	1.3	19
108	Effects of composite cathode on electrochemical and redox properties for intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2014, 39, 20812-20818.	3.8	18

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109	Strategy for Enhancing Interfacial Effect of Bifunctional Electrocatalyst: Infiltration of Cobalt Nanooxide on Perovskite. Advanced Materials Interfaces, 2018, 5, 1800123.	1.9	18
110	A New Strategy for Outstanding Performance and Durability in Acidic Fuel Cells: A Small Amount Pt Anchored on Fe, N coâ€Ðoped Graphene Nanoplatelets. ChemElectroChem, 2018, 5, 2857-2862.	1.7	18
111	Ni-Fe Bimetallic Nanocatalysts Produced by Topotactic Exsolution in Fe deposited PrBaMn_{1.7}Ni_{0.3}O_{5+<i>Î´</i>} for Dry Reforming of Methane. Journal of the Electrochemical Society, 2020, 167, 064518.	1.3	18
112	A review on infiltration techniques for energy conversion and storage devices: from fundamentals to applications. Sustainable Energy and Fuels, 2021, 5, 5024-5037.	2.5	18
113	Promotion of the oxygen evolution reaction <i>via</i> the reconstructed active phase of perovskite oxide. Journal of Materials Chemistry A, 2022, 10, 2271-2279.	5.2	17
114	Oxidationâ€“reduction behavior of La0.8Sr0.2Sc Mn1âˆ'O3Â± (y= 0.2, 0.3, 0.4): Defect structure, thermodynamic and electrical properties. Solid State Ionics, 2012, 228, 25-31.	1.3	16
115	Highly Efficient Layer-by-Layer-Assisted Infiltration for High-Performance and Cost-Effective Fabrication of Nanoelectrodes. ACS Applied Materials & Interfaces, 2014, 6, 17352-17357.	4.0	16
116	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO₂-saturated media for an aqueous Znâ€“CO₂ system. Journal of Materials Chemistry A, 2020, 8, 14927-14934.	5.2	16
117	Concurrent promotion of phase transition and bimetallic nanocatalyst exsolution in perovskite oxides driven by Pd doping to achieve highly active bifunctional fuel electrodes for reversible solid oxide electrochemical cells. Applied Catalysis B: Environmental, 2022, 314, 121517.	10.8	16
118	Fabrication and operating characteristics of a flat tubular segmented-in-series solid oxide fuel cell unit bundle. Energy, 2014, 72, 215-221.	4.5	15
119	Effect of cathode geometry on the electrochemical performance of flat tubular segmented-in-series(SIS) solid oxide fuel cell. International Journal of Hydrogen Energy, 2015, 40, 6207-6215.	3.8	15
120	Mixing effects of Cr₂O₃â€“PrBaMn₂O₅ for increased redox cycling properties of Fe powder for a solid-oxide Feâ€“air rechargeable battery. Journal of Materials Chemistry A, 2017, 5, 364-371.	5.2	15
121	Scale-Down and Sr-Doping Effects on La4Ni3O10-Î´â€“YSZ Nanocomposite Cathodes for IT-SOFCs. Journal of the Electrochemical Society, 2014, 161, F1468-F1473.	1.3	14
122	Electrochemical Performance of YST Infiltrated and Fe Doped YST Infiltrated YSZ Anodes for IT-SOFC. ECS Electrochemistry Letters, 2013, 2, F45-F49.	1.9	12
123	Mechanochemically driven iodination of activated charcoal for metal-free electrocatalyst for fuel cells and hybrid Li-air cells. Carbon, 2015, 93, 465-472.	5.4	12
124	Achieving High Efficiency and Eliminating Degradation in Solid Oxide Electrochemical Cells Using High Oxygenâ€Capacity Perovskite. Angewandte Chemie, 2016, 128, 12700-12703.	1.6	12
125	Probing One-Dimensional Oxygen Vacancy Channels Driven by Cationâ€“Anion Double Ordering in Perovskites. Nano Letters, 2020, 20, 8353-8359.	4.5	12
126	Precise Modulation of Tripleâ€Phase Boundaries towards a Highly Functional Exsolved Catalyst for Dry Reforming of Methane under a Dilutionâ€Free System. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12

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127	Thermodynamic Properties, Defect Analysis, and Electrical Conductivity of the La0.8Sr0.2ScxMn1-xO3âˆ’Î´ Infiltrated into YSZ Scaffolds. Journal of the Electrochemical Society, 2011, 158, B1373.	1.3	11
128	Insights Into the Effect of Nickel Doping on ZIFâ€Derived Oxygen Reduction Catalysts for Zincâˆ’Air Batteries. ChemElectroChem, 2019, 6, 1213-1224.	1.7	11
129	Effect of Zn Addition on Electrochemical Performance of Alâ€"Air Battery. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 505-509.	2.7	11
130	Ca- and Ni-Doped Pr_{0.5}Ba_{0.5}FeO_{3âˆ’Î´} as a Highly Active and Robust Cathode for High-Temperature Solid Oxide Fuel Cell. Energy & Fuels, 2020, 34, 11458-11463.	2.5	11
131	Enhancing Thermocatalytic Activities by Upshifting the dâ€Band Center of Exsolved Coâ€Niâ€Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. Angewandte Chemie, 2021, 133, 16048-16055.	1.6	11
132	Dysprosium doping effects on perovskite oxides for air and fuel electrodes of solid oxide cells. Journal of Power Sources, 2021, 497, 229873.	4.0	11
133	Performance comparison of composite cathode: Mixed ionic and electronic conductor and triple ionic and electronic conductor with BaZr0.1Ce0.7Y0.1Yb0.1O3-Î´ for highly efficient protonic ceramic fuel cells. Journal of Power Sources, 2022, 530, 231241.	4.0	11
134	Solid oxide electrolysis: Concluding remarks. Faraday Discussions, 2015, 182, 519-528.	1.6	10
135	Major Role of Surface Area in Perovskite Electrocatalysts for Alkaline Systems. ChemElectroChem, 2017, 4, 468-471.	1.7	10
136	Cobaltâ€Free Pr_{0.5}Ba_{0.4}Sr_{0.1}FeO_{3â€"<i>Î´</i>} as a Highly Efficient Cathode for Commercial YSZâ€Supported Solid Oxide Fuel Cell. ChemElectroChem, 2020, 7, 4378-4382.	1.7	10
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