Guntae Kim

List of Publications by Year
in descending order

125 papers	6,914 citations	46918 47 h-index	64668 79 g-index
132 all docs	132 docs citations	132 times ranked	5797 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	Exsolution trends and co-segregation aspects of self-grown catalyst nanoparticles in perovskites. Nature Communications, 2017, 8, 15967.	5.8	305
3	Highly efficient and robust cathode materials for low-temperature solid oxide fuel cells: PrBa0.5Sr0.5Co2â^'xFexO5+Î´. Scientific Reports, 2013, 3, 2426.	1.6	285
4	Tripleâ€Conducting Layered Perovskites as Cathode Materials for Protonâ€Conducting Solid Oxide Fuel Cells. ChemSusChem, 2014, 7, 2811-2815.	3.6	257
5	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
6	Hybrid-solid oxide electrolysis cell: A new strategy for efficient hydrogen production. Nano Energy, 2018, 44, 121-126.	8.2	209
7	Perovskite as a Cathode Material: A Review of its Role in Solidâ€Oxide Fuel Cell Technology. ChemElectroChem, 2016, 3, 511-530.	1.7	197
8	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
9	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
10	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
11	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
12	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
13	Cation-swapped homogeneous nanoparticles in perovskite oxides for highÂpower density. Nature Communications, 2019, 10, 697.	5.8	119
14	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
15	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
16	Synergistic interaction of perovskite oxides and N-doped graphene in versatile electrocatalyst. Journal of Materials Chemistry A, 2019, 7, 2048-2054.	5.2	104
17	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
18	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

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19	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. Small, 2017, 13, 1701167.	5.2	82
20	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
21	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
22	Antimony-doped graphene nanoplatelets. Nature Communications, 2015, 6, 7123.	5.8	77
23	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
24	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
25	Review on exsolution and its driving forces in perovskites. JPhys Energy, 2020, 2, 032001.	2.3	75
26	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
27	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
28	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
29	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
30	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
31	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
32	The electrochemical and thermodynamic characterization of PrBaCo2â^'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
33	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
34	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
35	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
36	Phase Engineering of Transition Metal Dichalcogenides with Unprecedentedly High Phase Purity, Stability, and Scalability via Moltenâ€Metalâ€Assisted Intercalation. Advanced Materials, 2020, 32, e2001889.	11.1	63

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37	Conductivityâ€Dependent Completion of Oxygen Reduction on Oxide Catalysts. Angewandte Chemie - International Edition, 2015, 54, 15730-15733.	7.2	62
38	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
39	Investigation of layered perovskite type NdBa1â^'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
40	Polypyrrole-assisted oxygen electrocatalysis on perovskite oxides. Energy and Environmental Science, 2017, 10, 523-527.	15.6	60
41	Optimization of La1â^'Sr CoO3â^' 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
42	Nanostructured Double Perovskite Cathode With Low Sintering Temperature For Intermediate Temperature Solid Oxide Fuel Cells. ChemSusChem, 2015, 8, 3153-3158.	3.6	56
43	Cloud-like graphene nanoplatelets on Nd_{0.5}Sr_{0.5}CoO_{3â^'Î´} nanorods as an efficient bifunctional electrocatalyst for hybrid Liâ€"air batteries. Journal of Materials Chemistry A, 2016, 4, 2122-2127.	5.2	54
44	A highly efficient composite cathode for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 451, 227812.	4.0	54
45	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
46	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
47	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
48	Thermodynamic and electrical characteristics of NdBaCo₂O₅_{+Î´}at various oxidation and reduction states. Journal of Materials Chemistry, 2011, 21, 439-443.	6.7	49
49	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
50	Fe@Nâ€Graphene Nanoplateletâ€Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction. Advanced Science, 2016, 3, 1500205.	5.6	47
51	Effect of Mn on the electrochemical properties of a layered perovskite NdBa0.5Sr0.5Co2â^'Mn O5+ (x= 0,) Tj ETQq1 1 0.784314 rgBT /O	2.6	45
52	Progress and potential for symmetrical solid oxide electrolysis cells. Matter, 2022, 5, 482-514.	5.0	44
53	A Composite Catalyst Based on Perovskites for Overall Water Splitting in Alkaline Conditions. ChemElectroChem, 2019, 6, 1520-1524.	1.7	42
54	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>₂< Perovskite Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Journal of the American Ceramic Society, 2014, 97, 651-656.	1.9	41

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55	Electrochemical investigation of strontium doping effect on high performance Pr1â^'Sr CoO3â^' (x= 0.1,) Tj ETQq1 1 0.784314 rgBT /Ov Sources, 2012, 210, 172-177.	4.0	40
56	Efficient CO2 Utilization via a Hybrid Na-CO2 System Based on CO2 Dissolution. IScience, 2018, 9, 278-285.	1.9	40
57	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
58	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
59	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
60	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
61	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
62	Enhanced reducibility of ceriaâ€"YSZ composites in solid oxide electrodes. Journal of Materials Chemistry, 2008, 18, 2386.	6.7	33
63	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
64	Chemical compatibility, redox behavior, and electrochemical performance of Nd1â^'Sr CoO3â^' cathodes based on Ce1.9Gd0.1O1.95 for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2012, 81, 217-223.	2.6	31
65	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
66	Comparative characterization of thermodynamic, electrical, and electrochemical properties of Sm0.5Sr0.5Co1â^'Nb O3â^' (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
67	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
68	Unveiling the key factor for the phase reconstruction and exsolved metallic particle distribution in perovskites. Nature Communications, 2021, 12, 6814.	5.8	28
69	Electrochemical properties of an ordered perovskite LaBaCo2O5+â€"Ce0.9Gd0.1O2â^' composite cathode with strontium doping for intermediate-temperature solid oxide fuel cells. Electrochemistry Communications, 2013, 34, 5-8.	2.3	27
70	Monolithic heteronanomat paper air cathodes toward origami-foldable/rechargeable Znâ€"air batteries. Journal of Materials Chemistry A, 2019, 7, 24231-24238.	5.2	27
71	Electrokinetic Proton Transport in Triple (H⁺/O^{2â^'}/e^{â^'}) Conducting Oxides as a Key Descriptor for Highly Efficient Protonic Ceramic Fuel Cells. Advanced Science, 2021, 8, e2004099.	5.6	27
72	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

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73	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
74	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
75	Nano-perovskite oxide prepared via inverse microemulsion mediated synthesis for catalyst of lithium-air batteries. Electrochimica Acta, 2018, 275, 248-255.	2.6	25
76	Co₃O₄ Exsolved Defective Layered Perovskite Oxide for Energy Storage Systems. ACS Energy Letters, 2020, 5, 3828-3836.	8.8	25
77	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
78	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 ETQq0 0 0 rgBT /Ove 2017, 5, 1337-1343.	1.8	23
79	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
80	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
81	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
82	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
83	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
84	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
85	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
86	Strategy for Enhancing Interfacial Effect of Bifunctional Electrocatalyst: Infiltration of Cobalt Nanooxide on Perovskite. Advanced Materials Interfaces, 2018, 5, 1800123.	1.9	18
87	A New Strategy for Outstanding Performance and Durability in Acidic Fuel Cells: A Small Amount Pt Anchored on Fe, N coâ€Doped Graphene Nanoplatelets. ChemElectroChem, 2018, 5, 2857-2862.	1.7	18
88	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
89	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
90	Oxidationâ€"reduction behavior of La0.8Sr0.2Sc Mn1â^'O3Â± (y= 0.2, 0.3, 0.4): Defect structure, thermodynamic and electrical properties. Solid State Ionics, 2012, 228, 25-31.	1.3	16

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91	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
92	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
93	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
94	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
95	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
96	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
97	Probing One-Dimensional Oxygen Vacancy Channels Driven by Cationâ€“Anion Double Ordering in Perovskites. Nano Letters, 2020, 20, 8353-8359.	4.5	12
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Solid oxide electrolysis: Concluding remarks. Faraday Discussions, 2015, 182, 519-528.	1.6	10
106	Major Role of Surface Area in Perovskite Electrocatalysts for Alkaline Systems. ChemElectroChem, 2017, 4, 468-471.	1.7	10
107	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
108	A Nano-Structured SOFC Composite Cathode Prepared via Infiltration of La_{0.5}Ba_{0.25}Sr_{0.25}Co_{0.8}Fe_{0.2}O₃₋<i>_{Î´}</i> into La_{0.9}Sr_{0.1}Ga_{0.8}Mg_{0.2}O₃₋<i>_{Î´}</i> for Extended Triple-Phase Boundary Area. Journal of the Electrochemical Society, 2019, 166, F805-F809.	1.3	9

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109	Carbon Nanofibers Encapsulated Nickelâ€Molybdenum Nanoparticles as Hydrogen Evolution Catalysts for Aqueous Znâˆ'CO 2 System. ChemNanoMat, 2020, 6, 937-946.	1.5	9
110	Self-Transforming Configuration Based on Atmospheric-Adaptive Materials for Solid Oxide Cells. Scientific Reports, 2018, 8, 17149.	1.6	8
111	One-pot surface engineering of battery electrode materials with metallic SWCNT-enriched, ivy-like conductive nanonets. Journal of Materials Chemistry A, 2017, 5, 12103-12112.	5.2	7
112	First-Principles Insight into the Effects of Intrinsic Oxygen Defects on Proton Conduction in Ruddlesdenâ€"Popper Oxides. Journal of Physical Chemistry Letters, 2021, 12, 11503-11510.	2.1	7
113	Highly Efficient CO₂ Utilization via Aqueous Zincâ€" or Aluminumâ€"CO₂ Systems for Hydrogen Gas Evolution and Electricity Production. Angewandte Chemie, 2019, 131, 9606-9611.	1.6	6
114	Utilization of an Isovalent Doping Strategy in Cobalt-Free Ferrites for Highly Active and Stable Solid Oxide Fuel Cell Cathodes. ACS Applied Energy Materials, 2022, 5, 3417-3425.	2.5	6
115	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions: Nano-Co3O4-Deposited La0.5Sr0.5MnO3 via Infiltration. Molecules, 2021, 26, 277.	1.7	5
116	Polypyrroleâ€Assisted Co₃O₄ Anchored Carbon Fiber as a Binderâ€Free Electrode for Seawater Batteries. ChemElectroChem, 2019, 6, 136-140.	1.7	4
117	Precise Modulation of Tripleâ€Phase Boundaries towards a Highly Functional Exsolved Catalyst for Dry Reforming of Methane under a Dilutionâ€Free System. Angewandte Chemie, 2022, 134, .	1.6	2
118	Electrochemical Properties of La4Ni3O10-GDC Composite Cathode by Facile Sol-gel Method for IT-SOFCs. Journal of the Korean Ceramic Society, 2014, 51, 265-270.	1.1	1
119	Molecularly designed, dual-doped mesoporous carbon/SWCNT nanoshields for lithium battery electrode materials. Journal of Materials Chemistry A, 2016, 4, 14996-15005.	5.2	1
120	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). Small, 2017, 13, .	5.2	1
121	Titelbild: Development of Double-Perovskite Compounds as Cathode Materials for Low-Temperature Solid Oxide Fuel Cells (Angew. Chem. 48/2014). Angewandte Chemie, 2014, 126, 13187-13187.	1.6	0
122	Energy Conversion: Fe@Nâ€Graphene Nanoplateletâ€Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction (Adv. Sci. 1/2016). Advanced Science, 2016, 3, .	5.6	0
123	Interfacial Effect: Strategy for Enhancing Interfacial Effect of Bifunctional Electrocatalyst: Infiltration of Cobalt Nanooxide on Perovskite (Adv. Mater. Interfaces 12/2018). Advanced Materials Interfaces, 2018, 5, 1870060.	1.9	0
124	In situ Observation of Oxygen Vacancy Order-Disorder Transition in NdBaCo2O5.5 Layered Perovskite Oxide. Microscopy and Microanalysis, 2019, 25, 1872-1873.	0.2	0
125	Electrochemical Performance Analysis of Heat Treatment of Metal-Air Battery. Journal of the Korean Society for Precision Engineering, 2018, 35, 1137-1140.	0.1	0