Guntae Kim

List of Publications by Year
in descending order

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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	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
2	Progress and potential for symmetrical solid oxide electrolysis cells. Matter, 2022, 5, 482-514.	5.0	44
3	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
4	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
5	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
6	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
7	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
8	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_{3âˆ'Î´} from simple to layered perovskite under reducing conditions and enhanced catalytic activity. Energy and Environmental Science, 2021, 14, 873-882.	15.6	37
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Unveiling the key factor for the phase reconstruction and exsolved metallic particle distribution in perovskites. Nature Communications, 2021, 12, 6814.	5.8	28
20	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
21	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
22	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
23	Co₃O₄ Exsolved Defective Layered Perovskite Oxide for Energy Storage Systems. ACS Energy Letters, 2020, 5, 3828-3836.	8.8	25
24	Ca- and Ni-Doped Pr_{0.5}Ba_{0.5}FeO_{3â^'Î´} as a Highly Active and Robust Cathode for High-Temperature Solid Oxide Fuel Cell. Energy & Fuels, 2020, 34, 11458-11463.	2.5	11
25	Probing One-Dimensional Oxygen Vacancy Channels Driven by Cationâ€"Anion Double Ordering in Perovskites. Nano Letters, 2020, 20, 8353-8359.	4.5	12
26	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
27	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
28	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
29	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
30	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
31	A highly efficient composite cathode for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 451, 227812.	4.0	54
32	Carbon Nanofibers Encapsulated Nickelâ€Molybdenum Nanoparticles as Hydrogen Evolution Catalysts for Aqueous Znâ^'CO 2 System. ChemNanoMat, 2020, 6, 937-946.	1.5	9
33	Review on exsolution and its driving forces in perovskites. JPhys Energy, 2020, 2, 032001.	2.3	75
34	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
35	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
36	Monolithic heteronanomat paper air cathodes toward origami-foldable/rechargeable Znâ€"air batteries. Journal of Materials Chemistry A, 2019, 7, 24231-24238.	5.2	27

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37	Insights Into the Effect of Nickel Doping on ZIFâ€Derived Oxygen Reduction Catalysts for Zincâ˘'Air Batteries. ChemElectroChem, 2019, 6, 1213-1224.	1.7	11
38	Synergistic interaction of perovskite oxides and N-doped graphene in versatile electrocatalyst. Journal of Materials Chemistry A, 2019, 7, 2048-2054.	5.2	104
39	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
40	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
41	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
42	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
43	A Composite Catalyst Based on Perovskites for Overall Water Splitting in Alkaline Conditions. ChemElectroChem, 2019, 6, 1520-1524.	1.7	42
44	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
45	Cation-swapped homogeneous nanoparticles in perovskite oxides for highÂpower density. Nature Communications, 2019, 10, 697.	5.8	119
46	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
47	Polypyrroleâ€Assisted Co₃O₄ Anchored Carbon Fiber as a Binderâ€Free Electrode for Seawater Batteries. ChemElectroChem, 2019, 6, 136-140.	1.7	4
48	Nano-perovskite oxide prepared via inverse microemulsion mediated synthesis for catalyst of lithium-air batteries. Electrochimica Acta, 2018, 275, 248-255.	2.6	25
49	Strategy for Enhancing Interfacial Effect of Bifunctional Electrocatalyst: Infiltration of Cobalt Nanooxide on Perovskite. Advanced Materials Interfaces, 2018, 5, 1800123.	1.9	18
50	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
51	Hybrid-solid oxide electrolysis cell: A new strategy for efficient hydrogen production. Nano Energy, 2018, 44, 121-126.	8.2	209
52	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
53	Efficient CO2 Utilization via a Hybrid Na-CO2 System Based on CO2 Dissolution. IScience, 2018, 9, 278-285.	1.9	40
54	Self-Transforming Configuration Based on Atmospheric-Adaptive Materials for Solid Oxide Cells. Scientific Reports, 2018, 8, 17149.	1.6	8

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	Major Role of Surface Area in Perovskite Electrocatalysts for Alkaline Systems. ChemElectroChem, 2017, 4, 468-471.	1.7	10
64	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
65	Polypyrrole-assisted oxygen electrocatalysis on perovskite oxides. Energy and Environmental Science, 2017, 10, 523-527.	15.6	60
66	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). Small, 2017, 13, .	5.2	1
67	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
68	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
69	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
70	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. Small, 2017, 13, 1701167.	5.2	82
71	Exsolution trends and co-segregation aspects of self-grown catalyst nanoparticles in perovskites. Nature Communications, 2017, 8, 15967.	5.8	305
72	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

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73	Perovskite as a Cathode Material: A Review of its Role in Solidâ€Oxide Fuel Cell Technology. ChemElectroChem, 2016, 3, 511-530.	1.7	197
74	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
75	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
76	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
77	Fe@Nâ€Graphene Nanoplateletâ€Embedded Carbon Nanofibers as Efficient Electrocatalysts for Oxygen Reduction Reaction. Advanced Science, 2016, 3, 1500205.	5.6	47
78	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
79	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
80	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
81	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
82	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
83	Conductivityâ€Dependent Completion of Oxygen Reduction on Oxide Catalysts. Angewandte Chemie - International Edition, 2015, 54, 15730-15733.	7.2	62
84	Nanostructured Double Perovskite Cathode With Low Sintering Temperature For Intermediate Temperature Solid Oxide Fuel Cells. ChemSusChem, 2015, 8, 3153-3158.	3.6	56
85	Antimony-doped graphene nanoplatelets. Nature Communications, 2015, 6, 7123.	5.8	77
86	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
87	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
88	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
89	Solid oxide electrolysis: Concluding remarks. Faraday Discussions, 2015, 182, 519-528.	1.6	10
90	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

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91	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
92	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
93	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
94	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
95	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
96	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_{3âˆ’<i>Î´</i>}. ChemSusChem, 2014, 7, 1669-1675.	3.6	74
97	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
98	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
99	Tripleâ€Conducting Layered Perovskites as Cathode Materials for Protonâ€Conducting Solid Oxide Fuel Cells. ChemSusChem, 2014, 7, 2811-2815.	3.6	257
100	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
101	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
102	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
103	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
104	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
105	Structural, electrical and electrochemical characteristics of La_{0.1}Sr_{0.9}Co_{1âˆ’x}Nb_xO_{3âˆ’Î´} as a cathode material for intermediate temperature solid oxide fuel cells. RSC Advances, 2014, 4, 18710-18717.	1.7	25
106	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
107	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
108	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

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109	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
110	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
111	Thermodynamic and electrical properties of Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’ and La0.6Sr0.4Co0.2Fe0.8O3âˆ’ for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2013, 89, 372-376.	2.6	73
112	Effect of Mn on the electrochemical properties of a layered perovskite NdBa0.5Sr0.5Co2âˆ’Mn O5+ (x= 0,) Tj ETQq0 0 0 rgBT /Overlock	2.6	45
113	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
114	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
115	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
116	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
117	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
118	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
119	Electrochemical investigation of strontium doping effect on high performance Pr1âˆ’Sr CoO3âˆ’ (x= 0.1,) Tj ETQq1 1 0.784314 rgBT /Ov Sources, 2012, 210, 172-177.	4.0	40
120	Thermodynamic and Electrical Properties of Layered Perovskite NdBaCo2âˆ’xFexO5+Î´âˆ’YSZ (xâ€‰=â€‰0, 1) Composites for Intermediate Temperature SOFC Cathodes. Journal of the Electrochemical Society, 2011, 158, B632.	1.3	25
121	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
122	Thermodynamic and electrical characteristics of NdBaCo₂O₅_{+Î´}at various oxidation and reduction states. Journal of Materials Chemistry, 2011, 21, 439-443.	6.7	49
123	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
124	Enhanced reducibility of ceriaâ€"YSZ composites in solid oxide electrodes. Journal of Materials Chemistry, 2008, 18, 2386.	6.7	33
125	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