Konrad Åwierczek

List of Publications by Year
in descending order

167 papers	5,259 citations	76326 40 h-index	110387 64 g-index
170 all docs	170 docs citations	170 times ranked	5845 citing authors

#	Article	IF	Citations
1	MoS₂ Nanosheets Vertically Grown on Graphene Sheets for Lithium-Ion Battery Anodes. ACS Nano, 2016, 10, 8526-8535.	14.6	447
2	High-Performance Anode Material Sr₂FeMo_{0.65}Ni_{0.35}O_{6âˆ’Î´} with <i>In Situ</i> Exsolved Nanoparticle Catalyst. ACS Nano, 2016, 10, 8660-8669.	14.6	287
3	Functional materials for the IT-SOFC. Journal of Power Sources, 2007, 173, 657-670.	7.8	148
4	Carbonâ€Sheathed MoS₂ Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage. Advanced Energy Materials, 2018, 8, 1700174.	19.5	141
5	MoS2 nanosheets vertically grown on reduced graphene oxide via oxygen bonds with carbon coating as ultrafast sodium ion batteries anodes. Carbon, 2017, 119, 91-100.	10.3	120
6	Hierarchically structured lithium titanate for ultrafast charging in long-life high capacity batteries. Nature Communications, 2017, 8, 15636.	12.8	117
7	Diffusional mechanism of deintercalation in LiFe1âˆ’yMnyPO4 cathode material. Solid State Ionics, 2006, 177, 2617-2624.	2.7	106
8	Facile synthesis of MoO3/carbon nanobelts as high-performance anode material for lithium ion batteries. Electrochimica Acta, 2015, 180, 947-956.	5.2	96
9	Synthesis of core-shell-like ZnS/C nanocomposite as improved anode material for lithium ion batteries. Electrochimica Acta, 2017, 228, 100-106.	5.2	95
10	High-Performance SmBaMn₂O_{5+Î´} Electrode for Symmetrical Solid Oxide Fuel Cell. Chemistry of Materials, 2019, 31, 3784-3793.	6.7	88
11	Formation and properties of high entropy oxides in Co-Cr-Fe-Mg-Mn-Ni-O system: Novel (Cr,Fe,Mg,Mn,Ni)3O4 and (Co,Cr,Fe,Mg,Mn)3O4 high entropy spinels. Journal of the European Ceramic Society, 2020, 40, 1644-1650.	5.7	86
12	The effect of 3d substitutions in the manganese sublattice on the charge transport mechanism and electrochemical properties of manganese spinel. Solid State Ionics, 2004, 171, 215-227.	2.7	80
13	An innovative approach to design SOFC air electrode materials: high entropy La_{1âˆ’x}Sr_x(Co,Cr,Fe,Mn,Ni)O_{3âˆ’Î´}(<i>x</i>= 0, 0.1, 0.2, 0.3) perovskites synthesized by the solâ€“gel method. Journal of Materials Chemistry A, 2020, 8, 24455-24468.	10.3	80
14	TiO2â€“SnO2 nanomaterials for gas sensing and photocatalysis. Journal of the European Ceramic Society, 2013, 33, 2285-2290.	5.7	75
15	Core-shell structured ZnS-C nanoparticles with enhanced electrochemical properties for high-performance lithium-ion battery anodes. Electrochimica Acta, 2017, 225, 129-136.	5.2	74
16	Evaluation of Ln2CuO4 (Ln: La, Pr, Nd) oxides as cathode materials for IT-SOFCs. Materials Research Bulletin, 2012, 47, 4089-4095.	5.2	73
17	Novel cobalt-free BaFe_{1âˆ’x}Gd_xO_{3âˆ’Î´} perovskite membranes for oxygen separation. Journal of Materials Chemistry A, 2016, 4, 10454-10466.	10.3	72
18	Defect structure and transport properties of (Co,Cr,Fe,Mn,Ni)3O4 spinel-structured high entropy oxide. Journal of the European Ceramic Society, 2020, 40, 835-839.	5.7	71

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19	Conduction mechanism in operating a LiMn2O4 cathode. Solid State Ionics, 2002, 146, 225-237.	2.7	68
20	Investigation of In-doped BaFeO_{3âˆ’Î´}perovskite-type oxygen permeable membranes. Journal of Materials Chemistry A, 2015, 3, 6202-6214.	10.3	68
21	Exceptionally High Performance Anode Material Based on Lattice Structure Decorated Double Perovskite Sr₂FeMo_{2/3}Mg_{1/3}O_{6âˆ’}<i>_{Î´}</i> for Solid Oxide Fuel Cells. Advanced Energy Materials, 2018, 8, 1800062.	19.5	62
22	Computational and experimental understanding of Al-doped Na3V2-xAlx(PO4)3 cathode material for sodium ion batteries: Electronic structure, ion dynamics and electrochemical properties. Electrochimica Acta, 2018, 282, 510-519.	5.2	60
23	Studies of selected synthesis procedures of the conducting LiFePO4-based composite cathode materials for Li-ion batteries. Journal of Power Sources, 2007, 173, 700-706.	7.8	57
24	Structural, Transport and Electrochemical Properties of LiFePO4 Substituted in Lithium and Iron Sublattices (Al, Zr, W, Mn, Co and Ni). Materials, 2013, 6, 1656-1687.	2.9	56
25	The nature of the nonmetalâ€“metal transition in LixCoO2 oxide. Solid State Ionics, 2014, 263, 110-118.	2.7	56
26	Delicate lattice modulation enables superior Na storage performance of Na₃V₂(PO₄)₃ as both an anode and cathode material for sodium-ion batteries: understanding the role of calcium substitution for vanadium. Journal of Materials Chemistry A, 2019, 7, 9807-9814.	10.3	56
27	Status report on high temperature fuel cells in Poland â€“ Recent advances and achievements. International Journal of Hydrogen Energy, 2017, 42, 4366-4403.	7.1	55
28	Characterization of novel GdBa0.5Sr0.5Co2âˆ’xFexO5+Î´ perovskites for application in IT-SOFC cells. International Journal of Hydrogen Energy, 2013, 38, 1027-1038.	7.1	53
29	Effective calcium doping at the B-site of BaFeO_{3âˆ’Î´} perovskite: towards low-cost and high-performance oxygen permeation membranes. Journal of Materials Chemistry A, 2017, 5, 7999-8009.	10.3	53
30	Carbon Deposition and Sulfur Poisoning in SrFe_{0.75}Mo_{0.25}O_{3-Î´}and SrFe_{0.5}Mn_{0.25}Mo_{0.25}O_{3-Î´}Electrode Materials for Symmetrical SOFCs. Journal of the Electrochemical Society, 2015, 162, F1078-F1087.	2.9	52
31	LFN and LSCFN perovskites â€” structure and transport properties. Solid State Ionics, 2006, 177, 1811-1817.	2.7	51
32	Micro/Nano Na₃V₂(PO₄)₃/N-Doped Carbon Composites with a Hierarchical Porous Structure for High-Rate Pouch-Type Sodium-Ion Full-Cell Performance. ACS Applied Materials & Interfaces, 2021, 13, 8445-8454.	8.0	51
33	Effect of ionic size of dopants on the lattice structure, electrical and electrochemical properties of La2âˆ’xMxNiO4+Î´ (MÂ=ÂBa, Sr) cathode materials. International Journal of Hydrogen Energy, 2014, 39, 1023-1029.	7.1	49
34	Physicochemical properties of rock salt-type ordered Sr2MMoO6 (M=Mg, Mn, Fe, Co, Ni) double perovskites. Journal of the European Ceramic Society, 2014, 34, 4273-4284.	5.7	49
35	The effect of 3d substitutions in the manganese sublattice on the electrical and electrochemical properties of manganese spinel. Solid State Ionics, 2004, 175, 297-304.	2.7	48
36	Evaluation of La_{0.3}Sr_{0.7}Ti_{1âˆ’x}Co_xO₃ as a potential cathode material for solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 10290-10299.	10.3	46

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37	(101) Plane-Oriented SnS₂ Nanoplates with Carbon Coating: A High-Rate and Cycle-Stable Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 35880-35887.	8.0	46
38	Structural and electrical properties of grain boundaries in Ce0.85Gd0.15O1.925 solid electrolyte modified by addition of transition metal ions. Journal of Power Sources, 2009, 194, 2-9.	7.8	44
39	Grain-size-dependent gas-sensing properties of TiO2 nanomaterials. Sensors and Actuators B: Chemical, 2015, 211, 67-76.	7.8	44
40	Electrical properties of LiMn2O4Ã¢Â^Â'ÃŽÂ´ at temperatures 220Ã¢Â€Â"1100K. Solid State Ionics, 1999, 123, 155-163.	2.7	41
41	Electrochemical performance of Pr1â^'xYxBaCo2O5+Î´ layered perovskites as cathode materials for intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2013, 38, 16365-16372.	7.1	41
42	Crystal structure and oxygen storage properties of BaLnMn2O5+Î´ (Ln: Pr, Nd, Sm, Gd, Dy, Er and Y) oxides. Materials Research Bulletin, 2015, 65, 116-122.	5.2	38
43	Thermochemical compatibility between selected (La,Sr)(Co,Fe,Ni)O3 cathodes and rare earth doped ceria electrolytes. Journal of Power Sources, 2007, 173, 675-680.	7.8	36
44	Evidence for Al doping in lithium sublattice of LiFePO4. Solid State Ionics, 2015, 270, 33-38.	2.7	36
45	Stabilizing fluorite structure in ceria-based high-entropy oxides: Influence of Mo addition on crystal structure and transport properties. Journal of the European Ceramic Society, 2020, 40, 5870-5881.	5.7	36
46	Structural and electrical properties of selected La1â^'xSrxCo0.2Fe0.8O3 and La0.6Sr0.4Co0.2Fe0.6Ni0.2O3 perovskite type oxides. Journal of Power Sources, 2007, 173, 695-699.	7.8	32
47	Valence and spin states, and the metal-insulator transition in ferromagneticLa2â^'xSrxMnNiO6(x=0,0.2). Physical Review B, 2009, 80, .	3.2	32
48	Lattice structure, sintering behavior and electrochemical performance of La1.7Ca0.3Ni1â^'xCuxO4+Î´ as cathode material for intermediate-temperature solid oxide fuel cell. Journal of Power Sources, 2013, 240, 759-765.	7.8	31
49	Synthesis and preliminary study of the double perovskite NdBaMn2O5+Î´ as symmetric SOFC electrode material. Solid State Ionics, 2016, 288, 61-67.	2.7	30
50	Design and synthesis of a 3-D hierarchical molybdenum dioxide/nickel/carbon structured composite with superior cycling performance for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 605-611.	10.3	30
51	Novel ReBaCo_{1.5}Mn_{0.5}O_{5+Î´} (Re: La, Pr, Nd, Sm, Gd and Y) perovskite oxide: influence of manganese doping on the crystal structure, oxygen nonstoichiometry, thermal expansion, transport properties, and application as a cathode material in solid oxide fuel cells. Journal of Materials Chemistry A, 2018, 6, 13271-13285.	10.3	30
52	Rock salt ordered-type double perovskite anode materials for solid oxide fuel cells. Solid State Ionics, 2014, 257, 9-16.	2.7	29
53	Effective Ca-doping in Y_{1â^'x}Ca_xBaCo₂O_{5+Î´} cathode materials for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2017, 5, 25641-25651.	10.3	29
54	Assessment of layered La2-x(Sr,Ba)xCuO4-Î´ oxides as potential cathode materials for SOFCs. International Journal of Hydrogen Energy, 2018, 43, 15492-15504.	7.1	29

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55	Investigation of Cu promotion effect on hydrotalcite-based nickel catalyst for CO2 methanation. Catalysis Today, 2022, 384-386, 133-145.	4.4	29
56	High performance Ni3S2/Ni film with three dimensional porous architecture as binder-free anode for lithium ion batteries. Electrochimica Acta, 2016, 211, 761-767.	5.2	28
57	Nd-doped Ba(Ce,Zr)O3âˆ’Î´ proton conductors for application in conversion of CO2 into liquid fuels. Solid State Ionics, 2012, 225, 297-303.	2.7	27
58	Electronic structure and reactivity of Li1âˆ’xMn2O4 cathode. Solid State Ionics, 2000, 135, 53-59.	2.7	26
59	Structural and transport properties of layered Li1+x(Mn1/3Co1/3Ni1/3)1âˆ’xO2 oxides prepared by a soft chemistry method. Journal of Power Sources, 2009, 194, 38-44.	7.8	26
60	Crystallographic and electronic properties of Li1+Î´Mn2âˆ’Î´O4 spinels prepared by HT synthesis. Solid State Ionics, 2003, 157, 89-93.	2.7	25
61	Structural, magnetic and electronic properties of LaNi0.5Fe0.5O3 in the temperature range 5â€“1000K. Journal of Solid State Chemistry, 2008, 181, 1833-1839.	2.9	25
62	A SmBaCo₂O_{5+Î´} double perovskite with epitaxially grown Sm_{0.2}Ce_{0.8}O_{2âˆ’Î´} nanoparticles as a promising cathode for solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 14162-14170.	10.3	25
63	Mixed ionic-electronic transport in the high-entropy (Co,Cu,Mg,Ni,Zn)1-Li O oxides. Acta Materialia, 2021, 208, 116735.	7.9	25
64	Anomaly in the electronic structure of the NaxCoO2âˆ’y cathode as a source of its step-like discharge curve. Physical Chemistry Chemical Physics, 2014, 16, 14845.	2.8	24
65	Thermoanalysis, nonstoichiometry and thermal expansion of La0.4Sr0.6Co0.2Fe0.8O3âˆ’Î´, La0.2Sr0.8Co0.2Fe0.8O3âˆ’Î´, La0.9Sr0.1Co1/3Fe1/3Ni1/3O3âˆ’Î´ and La0.6Sr0.4Co0.2Fe0.6Ni0.2O3âˆ’Î´ perovskites. Solid State Ionics, 2008, 179, 126-130.	2.7	23
66	Synthesis, crystal structure and electrical properties of A-site cation ordered BaErMn2O5 and BaErMn2O6. Journal of Solid State Chemistry, 2013, 203, 68-73.	2.9	23
67	Sodium intercalation in Na CoO2âˆ’ â€” Correlation between crystal structure, oxygen nonstoichiometry and electrochemical properties. Solid State Ionics, 2014, 262, 206-210.	2.7	23
68	Evaluation of La 2 Ni 0.5 Cu 0.5 O 4+Î´ and Pr 2 Ni 0.5 Cu 0.5 O 4+Î´ Ruddlesden-Popper-type layered oxides as cathode materials for solid oxide fuel cells. Materials Research Bulletin, 2016, 84, 259-266.	5.2	23
69	Anisotropy of thermal expansion of 3Y-TZP, Î±-Al 2 O 3 and composites from 3Y-TZP/Î±-Al 2 O 3 system. Archives of Civil and Mechanical Engineering, 2018, 18, 188-197.	3.8	23
70	Physico-chemical properties of Ln0.5A0.5Co0.5Fe0.5O3âˆ’Î´ (Ln: La, Sm; A: Sr, Ba) cathode materials and their performance in electrolyte-supported Intermediate Temperature Solid Oxide Fuel Cell. Journal of Power Sources, 2011, 196, 7110-7116.	7.8	22
71	Cation-ordered perovskite-type anode and cathode materials for solid oxide fuel cells. Solid State Ionics, 2014, 262, 354-358.	2.7	21
72	Crystal structure and magnetic properties of high-oxygen pressure annealed Sr1âˆ’xLaxCo0.5Fe0.5O3âˆ’Î´ (0â©½xâ©½0.5). Journal of Solid State Chemistry, 2009, 182, 280-288.	2.9	20

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73	Electronic origin of difference in discharge curve between LixCoO2 and NaxCoO2 cathodes. Solid State Ionics, 2015, 271, 15-27.	2.7	20
74	Characterization of the physicochemical properties of novel SnS2 with cubic structure and diamond-like Sn sublattice. Acta Materialia, 2015, 82, 212-223.	7.9	20
75	Characterization of Sr-doped lithium lanthanum titanate with improved transport properties. Solid State Ionics, 2019, 336, 39-46.	2.7	20
76	Red phosphorus as self-template to hierarchical nanoporous nickel phosphides toward enhanced electrocatalytic activity for oxygen evolution reaction. Electrochimica Acta, 2020, 332, 135500.	5.2	20
77	PbMg1/3Nb2/3O3-doping effects on structural, thermal, Raman, dielectric and ferroelectric properties of BaTiO3 ceramics. Journal of the European Ceramic Society, 2015, 35, 1777-1783.	5.7	19
78	Reversible oxygen intercalation in hexagonal Y_{0.7}Tb_{0.3}MnO_{3+Î´}: toward oxygen production by temperature-swing absorption in air. Journal of Materials Chemistry A, 2019, 7, 2608-2618.	10.3	19
79	Evaluation of BaY1â^'Pr Mn2O5+Î´ oxides for oxygen storage technology. Solid State Ionics, 2014, 262, 659-663.	2.7	18
80	Electrochemical properties of mechanochemically synthesized CoSn2-C nanocomposite-type anode material for Li-ion batteries. Solid State Ionics, 2015, 269, 86-92.	2.7	18
81	Oxygen storage properties of hexagonal HoMnO_{3+Î´}. Physical Chemistry Chemical Physics, 2017, 19, 19243-19251.	2.8	18
82	Mn-rich SmBaCo0.5Mn1.5O5+Î´ double perovskite cathode material for SOFCs. International Journal of Hydrogen Energy, 2019, 44, 27587-27599.	7.1	18
83	Structure and transport properties of the novel (Dy,Er,Gd,Ho,Y)3Fe5O12 and (Dy,Gd,Ho,Sm,Y)3Fe5O12 high entropy garnets. Journal of the European Ceramic Society, 2021, 41, 3844-3849.	5.7	18
84	Electrolyte-supported IT-SOFC with LSCFâ€"SCFN composite cathode. Solid State Ionics, 2011, 192, 486-490.	2.7	17
85	Toward elucidation of delithiation mechanism of zinc-substituted LiFePO4. Electrochimica Acta, 2013, 92, 79-86.	5.2	17
86	Electrochemical properties of Ti49Zr26Ni25â^'Pd (x= 0â€"6) quasicrystal electrodes produced by mechanical alloying. Journal of Alloys and Compounds, 2015, 645, S152-S154.	5.5	17
87	A review on the critical challenges and progress of SiOx-based anodes for lithium-ion batteries. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 876-895.	4.9	17
88	Overcoming transport and electrochemical limitations in the high-voltage Na0.67Ni0.33Mn0.67-yTiyO2 (0 â‰ y â‰ 0.33) cathode materials by Ti-doping. Journal of Power Sources, 2018, 404, 39-46.	7.8	16
89	Synthesis of aluminium titanate by means of isostructural heterogeneous nucleation. Journal of the European Ceramic Society, 2019, 39, 2535-2544.	5.7	16
90	A new family of Cu-doped lanthanum silicate apatites as electrolyte materials for SOFCs: Synthesis, structural and electrical properties. Journal of the European Ceramic Society, 2019, 39, 424-431.	5.7	16

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91	Structure and oxygen permeability of BaCo0.7Fe0.3â^'In O3â^' ceramic membranes. Journal of Membrane Science, 2015, 492, 559-567.	8.2	15
92	Improvement of oxygen storage properties of hexagonal YMnO3+Î´ by microstructural modifications. Journal of Solid State Chemistry, 2018, 258, 471-476.	2.9	15
93	High-performance oxygen permeation membranes: Cobalt-free Ba0.975La0.025Fe1-Cu O3- ceramics. Journal of Materiomics, 2019, 5, 264-272.	5.7	15
94	Selected Electrochemical Properties of 4,4â€™-((1E,1â€™E)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(N,N-di-p-tolylaniline) towards Perovskite Solar Cells with 14.4% Efficiency. Materials, 2020, 13, 2440.	2.9	15
95	Mitigation of grain boundary resistance in La2/3-xLi3xTiO3 perovskite as an electrolyte for solid-state Li-ion batteries. Journal of Materials Science, 2021, 56, 2435-2450.	3.7	15
96	NICKEL-BASED LAYERED PEROVSKITE CATHODE MATERIALS FOR APPLICATION IN INTERMEDIATE-TEMPERATURE SOLID OXIDE FUEL CELLS. Functional Materials Letters, 2011, 04, 151-155.	1.2	14
97	Effect of mechanical milling on electrochemical properties of Ti45Zr38xNi17+x (x=0, 8) quasicrystals produced by rapid-quenching. Journal of Alloys and Compounds, 2013, 580, S238-S242.	5.5	14
98	Synthesis and preliminary study of La4BaCu5O13+Î´ and La6.4Sr1.6Cu8O20Â±Î´ ordered perovskites as SOFC/PCFC electrode materials. Solid State Ionics, 2016, 288, 68-75.	2.7	14
99	Enhancement of the oxygen storage properties of BaPrMn2O5+Î´ and BaSmMn2O5+Î´ oxides by a high-energy milling. Solid State Ionics, 2016, 298, 66-72.	2.7	14
100	Electrochemical performance and structural durability of Mg-doped SmBaMn2O5+Î´ layered perovskite electrode for symmetrical solid oxide fuel cell. Catalysis Today, 2021, 364, 80-88.	4.4	14
101	Charge transport mechanism in LiCoyMn2â^'yO4 cathode material. Solid State Ionics, 2003, 157, 101-108.	2.7	13
102	Comparison of magnetic and thermoelectric properties of (Nd,Ca)BaCo2O5.5 and (Nd,Ca)CoO3. Journal of Applied Physics, 2012, 111, 07D727.	2.5	13
103	La1â^'xBaxCo0.2Fe0.8O3â^'Î´ perovskites for application in intermediate temperature SOFCs. Solid State Ionics, 2012, 225, 437-442.	2.7	13
104	Oxygen release from BaLnMn2O6 (Ln: Pr, Nd, Y) under reducing conditions as studied by neutron diffraction. Journal of Materials Science, 2017, 52, 6476-6485.	3.7	13
105	In-situ XRD investigations of FeAl intermetallic phase-based alloy oxidation. Corrosion Science, 2020, 164, 108344.	6.6	13
106	Surface engineering with ammonium niobium oxalate: A multifunctional strategy to enhance electrochemical performance and thermal stability of Ni-rich cathode materials at 4.5V cutoff potential. Electrochimica Acta, 2022, 403, 139636.	5.2	13
107	Crystal structure and proton conductivity in highly oxygen-deficient Ba1â^'xLax(In,Zr,Sn)O3â^'Î´ perovskites. Solid State Ionics, 2015, 275, 58-61.	2.7	12
108	Oxygen storage properties and catalytic activity of layer-ordered perovskites BaY1â^'Gd Mn2O5+. Solid State Ionics, 2016, 288, 43-47.	2.7	12

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109	Unveiling the effects of A-site substitutions on the oxygen ion migration in A_{2â^'x}Aâ€²_xNiO_{4+Î´} by first principles calculations. Physical Chemistry Chemical Physics, 2018, 20, 21685-21692.	2.8	12
110	Structural and transport properties of Li1+xV1â^'xO2 anode materials for Li-ion batteries. Solid State Ionics, 2014, 262, 124-127.	2.7	11
111	Structural and electrochemical properties of Na0.72CoO2 as cathode material for sodium-ion batteries. Journal of Solid State Electrochemistry, 2015, 19, 3605-3612.	2.5	11
112	A-site nonstoichiometry and B-site doping with selected M3+ cations in La2-xCu1-y-zNiyMzO4-Î´ layered oxides. Solid State Ionics, 2018, 317, 26-31.	2.7	11
113	Formation of Solid Solutions and Physicochemical Properties of the High-Entropy Ln1â^'xSrx(Co,Cr,Fe,Mn,Ni)O3â^'Î´ (Ln = La, Pr, Nd, Sm or Gd) Perovskites. Materials, 2021, 14, 5264.	2.9	11
114	Enhancement of the Curie temperature in NdBaCo<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>5.5</mml:mn></mml:mrow></mml:msub></mml:math>by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" [illegible]th>-	3.2	10
115	Oxygen-storage-related properties of substituted BaLnMn₂O_{5+Î´} A-site ordered manganites. Functional Materials Letters, 2014, 07, 1440004.	1.2	10
116	Evaluation of W-containing Sr1â^'Ba Fe0.75W0.25O3â€" (x= 0, 0.5, 1) anode materials for solid oxide fuel cells. Solid State Ionics, 2016, 288, 124-129.	2.7	10
117	Versatile Application of Redox Processes for REBaCoMnO_{5+Î´} (RE: La, Pr, Nd, Sm, Gd, and Y) Oxides. Journal of Physical Chemistry C, 2019, 123, 48-61.	3.1	10
118	Oxygen separation from air by the combined temperature swing and pressure swing processes using oxygen storage materials Y1â^'x(Tb/Ce)xMnO3+Î´. Journal of Materials Science, 2020, 55, 15653-15666.	3.7	10
119	Ruddlesden-Popper-type Nd2-xNi1-yCuyO4Â±Î´ layered oxides as candidate materials for MIEC-type ceramic membranes. Journal of the European Ceramic Society, 2020, 40, 4056-4066.	5.7	10
120	Co-free triple perovskite La1.5Ba1.5Cu3O7Â±Î´ as a promising air electrode material for solid oxide fuel cells. Journal of Power Sources, 2022, 532, 231371.	7.8	10
121	Possibility of modification of phosphoolivine by substitution in Li sublattice. Solid State Ionics, 2012, 225, 575-579.	2.7	9
122	Oxygen storage capability in Co- and Fe-containing perovskite-type oxides. Solid State Ionics, 2014, 257, 23-28.	2.7	9
123	Structure and transport properties of proton-conducting BaSn 0.5 In 0.5 O 2.75 and A-site substituted Ba 0.9 Ln 0.1 Sn 0.5 In 0.5 O 2.8 (Ln = La, Gd) oxides. Solid State Ionics, 2017, 307, 44-50.	2.7	9
124	Effective oxygen reduction on A-site substituted LaCuO_{3â^'Î´}: toward air electrodes for SOFCs based on perovskite-type copper oxides. Journal of Materials Chemistry A, 2019, 7, 27403-27416.	10.3	9
125	Indium doping in SrCeO3 proton-conducting perovskites. Journal of Solid State Chemistry, 2020, 284, 121210.	2.9	9
126	Defect chemistry and proton uptake of La2-xSrxNiO4Â±Î´ and La2-xBaxNiO4Â±Î´ Ruddlesden-Popper phases. Journal of Solid State Chemistry, 2022, 306, 122731.	2.9	9

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127	Optimization of Transport Properties of A-Site Ordered LnBa_{1-x}Sr_xCo_{2-y}Fe_yO_{5+Î´} Perovskite-Type Cathode Materials. ECS Transactions, 2013, 57, 1993-2001.	0.5	8
128	Electrochemical properties of chemically modified phosphoolivines as cathode materials for Li-ion batteries. Journal of Power Sources, 2013, 244, 565-569.	7.8	8
129	Hydrogen desorption properties of magnesium hydride catalyzed multiply with carbon and silicon. Journal of Alloys and Compounds, 2015, 645, S80-S83.	5.5	8
130	Influence of Grain Size on Gas Sensing Properties of TiO2 Nanopowders. Procedia Engineering, 2012, 47, 1057-1060.	1.2	7
131	Correlation between crystal and transport properties in LnBa0.5Sr0.5Co1.5Fe0.5O5+Î´ (Ln - selected) Tj ETQq1 1 0.784314 rgBT /Overlo	2.7	7
132	Chemical diffusion and surface exchange in selected Lnâ€"Baâ€"Srâ€"Coâ€"Fe perovskite-type oxides. Journal of Alloys and Compounds, 2015, 645, S357-S360.	5.5	7
133	Correlation between transport properties and lithium extraction/insertion mechanism in Fe-site substituted phosphoolivine. Solid State Ionics, 2016, 288, 184-192.	2.7	7
134	A- and B-site doping effect on physicochemical properties of Sr2â^'xBa_{<i>x</i>}MMoO₆ (M = Mg, Mn, Fe) double perovskitesÂâ€" candidate anode materials for SOFCs. Functional Materials Letters, 2016, 09, 1641002.	1.2	7
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