

Truls E Norby

List of Publications by Year in descending order

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290
papers

11,790
citations

36303

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296
docs citations

296
times ranked

8398
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-state protonic conductors: principles, properties, progress and prospects. <i>Solid State Ionics</i> , 1999, 125, 1-11.	2.7	747
2	Proton conduction in rare-earth ortho-niobates and ortho-tantalates. <i>Nature Materials</i> , 2006, 5, 193-196.	27.5	457
3	XPS characterisation of in situ treated lanthanum oxide and hydroxide using tailored charge referencing and peak fitting procedures. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 399-409.	1.7	449
4	Hydrogen in oxides. <i>Dalton Transactions</i> , 2004, , 3012-3018.	3.3	342
5	Direct conversion of methane to aromatics in a catalytic co-ionic membrane reactor. <i>Science</i> , 2016, 353, 563-566.	12.6	341
6	THE DEFECT STRUCTURE OF $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_{3-y}$ ($x = 0-0.8$) INVESTIGATED BY ELECTRICAL CONDUCTIVITY MEASUREMENTS AND ELECTRON ENERGY LOSS SPECTROSCOPY (EELS). <i>Journal of Physics and Chemistry of Solids</i> , 1997, 58, 969-976.	4.0	319
7	The promise of protonics. <i>Nature</i> , 2001, 410, 877-878.	27.8	253
8	Space-charge theory applied to the grain boundary impedance of proton conducting $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_3$. <i>Solid State Ionics</i> , 2010, 181, 268-275.	2.7	219
9	Mixed proton and electron conducting double perovskite anodes for stable and efficient tubular proton ceramic electrolyzers. <i>Nature Materials</i> , 2019, 18, 752-759.	27.5	191
10	Thermo-electrochemical production of compressed hydrogen from methane with near-zero energy loss. <i>Nature Energy</i> , 2017, 2, 923-931.	39.5	178
11	Spinel and Perovskite Functional Layers Between Plansee Metallic Interconnect (Cr-5 wt % Fe-1 wt %) Tj ETQq1 1 0.784314 rgBT /Over Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2000, 147, 3251.	2.9	172
12	Proton conduction in Ca- and Sr-substituted LaPO_4 . <i>Solid State Ionics</i> , 1995, 77, 240-243.	2.7	170
13	High-temperature proton conductivity in acceptor-doped LaNbO_4 . <i>Solid State Ionics</i> , 2006, 177, 1129-1135.	2.7	160
14	Oxidation Behavior of Ferritic Stainless Steels under SOFC Interconnect Exposure Conditions. <i>Journal of the Electrochemical Society</i> , 2004, 151, B669.	2.9	158
15	Concentration and transport of protons in oxides. <i>Current Opinion in Solid State and Materials Science</i> , 1997, 2, 593-599.	11.5	156
16	Gd- and Pr-based double perovskite cobaltites as oxygen electrodes for proton ceramic fuel cells and electrolyser cells. <i>Solid State Ionics</i> , 2015, 278, 120-132.	2.7	136
17	Protons and other defects in BaCeO_3 : a computational study. <i>Solid State Ionics</i> , 1999, 122, 145-156.	2.7	133
18	Mixed hydrogen ion-electronic conductors for hydrogen permeable membranes. <i>Solid State Ionics</i> , 2000, 136-137, 139-148.	2.7	125

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19	A textile-based wearable supercapacitor using reduced graphene oxide/polypyrrole composite. <i>Electrochimica Acta</i> , 2019, 305, 187-196.	5.2	125
20	Composite Membranes for High Temperature PEM Fuel Cells and Electrolysers: A Critical Review. <i>Membranes</i> , 2019, 9, 83.	3.0	114
21	EMF method determination of conductivity contributions from protons and other foreign ions in oxides. <i>Solid State Ionics</i> , 1988, 28-30, 1586-1591.	2.7	113
22	Proton and native-ion conductivities in Y2O3 at high temperatures. <i>Solid State Ionics</i> , 1986, 20, 169-184.	2.7	109
23	Transport number determination by the concentration-cell/open-circuit voltage method for oxides with mixed electronic, ionic and protonic conductivity. <i>Solid State Ionics</i> , 1995, 77, 167-174.	2.7	109
24	Electrical Conductivity and Defect Structure of Y2O3 as a Function of Water Vapor Pressure. <i>Journal of the American Ceramic Society</i> , 1984, 67, 786-792.	3.8	93
25	Complete structural model for lanthanum tungstate: a chemically stable high temperature proton conductor by means of intrinsic defects. <i>Journal of Materials Chemistry</i> , 2012, 22, 1762-1764.	6.7	91
26	Proton and deuteron conductivity in CsHSO4 and CsDSO4 by in situ isotopic exchange. <i>Solid State Ionics</i> , 1995, 77, 105-110.	2.7	84
27	Title is missing!. <i>Oxidation of Metals</i> , 1999, 51, 221-233.	2.1	81
28	Nonstoichiometry and reductive decomposition of CaMnO. <i>Solid State Ionics</i> , 2005, 176, 217-223.	2.7	79
29	Protonic and Native Conduction in Sr ²⁺ -Substituted LaPO4 Studied by Thermoelectric Power Measurements. <i>Journal of the Electrochemical Society</i> , 1998, 145, 3313-3319.	2.9	77
30	Crystal structure, hydration and ionic conductivity of the inherently oxygen-deficient La2Ce2O7. <i>Solid State Ionics</i> , 2012, 228, 1-7.	2.7	77
31	Protective and non-protective scale formation of NiCr alloys in water vapour containing high- and low-pO2 gases. <i>Corrosion Science</i> , 2008, 50, 1753-1760.	6.6	75
32	Protons in rare earth oxides. <i>Solid State Ionics</i> , 1995, 77, 147-151.	2.7	74
33	On the Steady-State Oxygen Permeation Through La ₂ NiO _{4+δ} Membranes. <i>Journal of the Electrochemical Society</i> , 2006, 153, A233.	2.9	72
34	Mechanisms of Protonic Surface Transport in Porous Oxides: Example of YSZ. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12817-12825.	3.1	72
35	Investigation of pitting resistance of titanium based on a modified point defect model. <i>Corrosion Science</i> , 2011, 53, 815-821.	6.6	70
36	Proton Conduction in Solids: Bulk and Interfaces. <i>MRS Bulletin</i> , 2009, 34, 923-928.	3.5	69

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37	High-Temperature Proton-Conducting Lanthanum Ortho-Niobate-Based Materials. Part II: Sintering Properties and Solubility of Alkaline Earth Oxides. <i>Journal of the American Ceramic Society</i> , 2008, 91, 879-886.	3.8	66
38	Proton mobility through a second order phase transition: theoretical and experimental study of LaNbO ₄ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10313.	2.8	66
39	Defect structure and its nomenclature for mixed conducting lanthanum tungstates La ₂₈ W ₄ O ₅₄ . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8051-8055.	7.1	66
40	Fast oxygen ion conductors from doped to ordered systems. <i>Journal of Materials Chemistry</i> , 2001, 11, 11-18.	6.7	65
41	Hydrogen ion conduction in iron-substituted strontium titanate, SrTi _{1-x} Fe _x O ₃ (0 ≤ x ≤ 0.8). <i>Solid State Ionics</i> , 2001, 143, 103-116.	2.7	65
42	High-Temperature Proton Conductivity in Acceptor-Substituted Rare-Earth Ortho-Tantalates, LnTaO ₄ . <i>Journal of the American Ceramic Society</i> , 2007, 90, 1116-1121.	3.8	64
43	Development of Proton Conducting SOFCs Based on LaNbO ₄ Electrolyte Status in Norway. <i>Fuel Cells</i> , 2011, 11, 17-25.	2.4	63
44	Charge carriers in grain boundaries of 0.5% Sr-doped LaNbO ₄ . <i>Solid State Ionics</i> , 2010, 181, 104-109.	2.7	61
45	Correlation between the characteristic green emissions and specific defects of ZnO. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2373.	2.8	57
46	A combined conductivity and DFT study of protons in PbZrO ₃ and alkaline earth zirconate perovskites. <i>Solid State Ionics</i> , 2010, 181, 130-137.	2.7	57
47	Single-step hydrogen production from NH ₃ , CH ₄ , and biogas in stacked proton ceramic reactors. <i>Science</i> , 2022, 376, 390-393.	12.6	56
48	Determination of the enthalpy of hydration of oxygen vacancies in Y-doped BaZrO ₃ and BaCeO ₃ by TG-DSC. <i>Solid State Ionics</i> , 2010, 181, 1740-1745.	2.7	55
49	Effects of A and B site acceptor doping on hydration and proton mobility of LaNbO ₄ . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8004-8016.	7.1	55
50	Impedance spectroscopy and proton transport number measurements on Sr-substituted LaPO ₄ prepared by combustion synthesis. <i>Solid State Ionics</i> , 2003, 162-163, 167-173.	2.7	54
51	Protonic Conduction in Acceptor-Doped Cubic Rare-Earth Sesquioxides. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1176-1181.	3.8	53
52	Cation self-diffusion in LaFeO ₃ measured by the solid state reaction method. <i>Solid State Ionics</i> , 2006, 177, 639-646.	2.7	53
53	Carbon Deposition and Sulfur Poisoning in SrFe _{0.75} Mo _{0.25} O _{3-δ} and SrFe _{0.5} Mn _{0.25} Mo _{0.25} O _{3-δ} Electrode Materials for Symmetrical SOFCs. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1078-F1087.	2.9	52
54	Temperature dependence of oxygen ion transport in Sr+Mg-substituted LaGaO (LSGM) with varying grain sizes. <i>Solid State Ionics</i> , 2004, 174, 233-243.	2.7	51

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55	Earth-Abundant Electrocatalysts in Proton Exchange Membrane Electrolyzers. <i>Catalysts</i> , 2018, 8, 657.	3.5	51
56	A Kröger-Vink Compatible Notation for Defects in Inherently Defective Sublattices. <i>Journal of the Korean Ceramic Society</i> , 2010, 47, 19-25.	2.3	50
57	High-temperature proton conductivity and defect structure of TiP2O7 . <i>Solid State Ionics</i> , 2010, 181, 510-516.	2.7	49
58	The electrode system $\text{ZrO}_2: 8\text{Y}_2\text{O}_3$ investigated by impedance spectroscopy. <i>Solid State Ionics</i> , 1991, 47, 161-167.	2.7	48
59	The equilibrium between water vapour, protons, and oxygen vacancies in rare earth oxides. <i>Solid State Ionics</i> , 1997, 97, 523-528.	2.7	48
60	Redox energetics of perovskite-related oxides. <i>Journal of Materials Chemistry</i> , 2002, 12, 317-323.	6.7	48
61	Electrical Conductivity of Y_2O_3 as a Function of Oxygen Partial Pressure in Wet and Dry Atmospheres. <i>Journal of the American Ceramic Society</i> , 1986, 69, 784-789.	3.8	47
62	Structure, Water Uptake, and Electrical Conductivity of TiP2O7 . <i>Journal of the American Ceramic Society</i> , 2011, 94, 1514-1522.	3.8	46
63	Direct-Current Conductivity of Y_2O_3 as a Function of Water Vapor Pressure. <i>Journal of the American Ceramic Society</i> , 1986, 69, 780-783.	3.8	45
64	Protons in $\text{Sr}_3(\text{Sr}_{1+x}\text{Nb}_{2-x})\text{O}_9$ perovskite. <i>Solid State Ionics</i> , 1999, 125, 369-376.	2.7	45
65	Defect Chemistry of Rutile TiO_2 from First Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5919-5930.	3.1	45
66	On the development of proton ceramic fuel cells based on Ca-doped LaNbO_4 as electrolyte. <i>Journal of Power Sources</i> , 2015, 282, 28-33.	7.8	45
67	MOF-modified polyester fabric coated with reduced graphene oxide/polypyrrole as electrode for flexible supercapacitors. <i>Electrochimica Acta</i> , 2020, 336, 135743.	5.2	45
68	Synthesis and characterisation of $\text{Ni-SrCe}_{0.9}\text{Yb}_{0.1}\text{O}_3$ cermet anodes for protonic ceramic fuel cells. <i>Solid State Ionics</i> , 2003, 158, 333-342.	2.7	44
69	Electrochemical promotion of the hydrogenation of CO_2 on Ru deposited on a BZY proton conductor. <i>Journal of Catalysis</i> , 2015, 331, 98-109.	6.2	44
70	Solubility of transition metal interstitials in proton conducting BaZrO_3 and similar perovskite oxides. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8105-8112.	10.3	44
71	Protons in LaErO_3 . <i>Solid State Ionics</i> , 1994, 70-71, 305-310.	2.7	42
72	Microstructural characterization and electrical properties of spray pyrolyzed conventionally sintered or hot-pressed BaZrO_3 and $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_3$. <i>Solid State Ionics</i> , 2011, 182, 32-40.	2.7	41

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73	Defects and transport in SrFe _{1-x} Co _x O ₃ . <i>Ionics</i> , 1999, 5, 434-443.	2.4	40
74	Redox energetics of SrFeO ₃ a coulometric titration study. <i>Solid State Ionics</i> , 2004, 167, 367-377.	2.7	40
75	Neutron diffraction study of the monoclinic to tetragonal structural transition in LaNbO ₄ and its relation to proton mobility. <i>Journal of Solid State Chemistry</i> , 2012, 187, 27-34.	2.9	40
76	Electronic Transport Properties of [Ca ₂ CoO ₃] _q [CoO ₂]. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2908-2918.	3.1	39
77	High-temperature oxidation of Cu-30 wt.% Ni-15 wt.% Fe. <i>Corrosion Science</i> , 2001, 43, 283-299.	6.6	38
78	High temperature transport properties of thermoelectric CaMnO ₃ Indication of strongly interacting small polarons. <i>Journal of Applied Physics</i> , 2014, 115, 103705.	2.5	38
79	Surface defect chemistry of Y-substituted and hydrated BaZrO ₃ with subsurface space-charge regions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7437-7444.	10.3	38
80	XPS surface analyses of LaPO ₄ ceramics prepared by precipitation with or without excess of PO ₄ ³⁻ . <i>Surface and Interface Analysis</i> , 2002, 34, 306-310.	1.8	37
81	Protonic conduction in acceptor-doped LaP ₃ O ₉ . <i>Solid State Ionics</i> , 2005, 176, 2867-2870.	2.7	37
82	Role of protons in the electrical conductivity of acceptor-doped BaPrO ₃ , BaTbO ₃ , and BaThO ₃ . <i>Solid State Ionics</i> , 2007, 178, 461-467.	2.7	36
83	Entropy of oxidation and redox energetics of CaMnO. <i>Solid State Ionics</i> , 2005, 176, 2261-2267.	2.7	35
84	Structure, chemical stability and mixed proton-electron conductivity in BaZr _{0.9-x} Pr _x Gd _{0.1} O ₃ . <i>Journal of Power Sources</i> , 2011, 196, 9141-9147.	7.8	35
85	Hydration of lanthanum tungstate (La/W=5.6 and 5.3) studied by TG and simultaneous TG-DSC. <i>Solid State Ionics</i> , 2013, 231, 25-29.	2.7	35
86	Electrical characterization of amorphous LiAlO ₂ thin films deposited by atomic layer deposition. <i>RSC Advances</i> , 2016, 6, 60479-60486.	3.6	34
87	Phase relations, chemical diffusion and electrical conductivity in pure and doped Sr ₄ Fe ₆ O ₁₃ mixed conductor materials. <i>Solid State Ionics</i> , 2000, 135, 687-697.	2.7	33
88	HT Corrosion of a Cr-5 wt % Fe-1 wt % Y ₂ O ₃ Alloy and Conductivity of the Oxide Scale. <i>Journal of the Electrochemical Society</i> , 2003, 150, B374.	2.9	33
89	H and Li Related Defects in ZnO and Their Effect on Electrical Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23764-23772.	3.1	33
90	Black Anatase TiO ₂ Nanotubes with Tunable Orientation for High Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21931-21940.	3.1	33

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91	Ionic and electronic conductivity in $\text{CaTi}_{1-x}\text{Fe}_x\text{O}_3$ ($x=0.1-0.3$). <i>Ionics</i> , 1999, 5, 385-392.	2.4	32
92	Conductivity Dependence on Oxygen Partial Pressure and Oxide-Ion Transport Numbers Determination for $\text{La}_{2-x}\text{Mo}_2\text{O}_9$. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A373.	2.2	32
93	Conductivity and water uptake of $\text{Sr}_4(\text{Sr}_2\text{Nb}_2)\text{O}_{11}\cdot n\text{H}_2\text{O}$ and $\text{Sr}_4(\text{Sr}_2\text{Ta}_2)\text{O}_{11}\cdot n\text{H}_2\text{O}$. <i>Solid State Ionics</i> , 2009, 180, 1151-1156.	2.7	32
94	NdHO , a novel oxyhydride. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1890-1894.	2.9	32
95	Conductivity and hydration trends in disordered fluorite and pyrochlore oxides: A study on lanthanum cerate-zirconate based compounds. <i>Solid State Ionics</i> , 2012, 229, 26-32.	2.7	32
96	Solid-state photoelectrochemical H_2 generation with gaseous reactants. <i>Electrochimica Acta</i> , 2013, 97, 320-325.	5.2	32
97	Relating defect chemistry and electronic transport in the double perovskite $\text{Ba}_{1-x}\text{Gd}_{0.8-x}\text{La}_{0.2+x}\text{Co}_2\text{O}_6$ (BGLC). <i>Journal of Materials Chemistry A</i> , 2017, 5, 15743-15751.	10.3	32
98	Thermoelectric properties of A-site deficient La-doped SrTiO_3 at $100-900^\circ\text{C}$ under reducing conditions. <i>Journal of the European Ceramic Society</i> , 2020, 40, 401-407.	5.7	32
99	Incorporation of water in strontium tantalates with perovskite-related structure. <i>Solid State Ionics</i> , 2001, 145, 357-364.	2.7	31
100	Proton and apparent hydride ion conduction in Al-substituted SrTiO_3 . <i>Solid State Ionics</i> , 2002, 154-155, 669-677.	2.7	31
101	Mixed Ionic and Electronic Conductivity of Undoped and Acceptor-Doped $\text{Er}_6\text{WO}_{12}$. <i>Journal of the Electrochemical Society</i> , 2007, 154, B77.	2.9	31
102	Novel high temperature proton conducting fuel cells: Production of $\text{La}_{0.995}\text{Sr}_{0.005}\text{NbO}_4$ electrolyte thin films and compatible cathode architectures. <i>Journal of Power Sources</i> , 2009, 188, 106-113.	7.8	31
103	High-Temperature Hydration and Conductivity of Mayenite, $\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}$. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8938-8944.	3.1	31
104	Oxygen bulk diffusion and surface exchange in Sr-substituted La_2NiO_4 . <i>Solid State Ionics</i> , 2011, 184, 42-46.	2.7	31
105	Versatile apparatus for thermoelectric characterization of oxides at high temperatures. <i>Review of Scientific Instruments</i> , 2014, 85, 103906.	1.3	31
106	Assessing the photoelectrochemical properties of C, N, F codoped TiO_2 nanotubes of different lengths. <i>Catalysis Today</i> , 2017, 287, 161-168.	4.4	31
107	Proton Conductivity in Perovskite Oxides. <i>Fuel Cells and Hydrogen Energy</i> , 2009, , 217-241.	0.6	30
108	Correlation of oxygen vacancy concentration and thermoelectric properties in $\text{Na}_{0.73}\text{CoO}_2$. <i>Applied Physics Letters</i> , 2010, 96, 141905.	3.3	30

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109	Ab initio studies of hydrogen and acceptor defects in rutile TiO ₂ . Physical Chemistry Chemical Physics, 2010, 12, 6817.	2.8	30
110	Steam-promoted CO ₂ flux in dual-phase CO ₂ separation membranes. Journal of Membrane Science, 2015, 482, 115-119.	8.2	30
111	Protonic surface conduction controlled by space charge of intersecting grain boundaries in porous ceramics. Journal of Materials Chemistry A, 2018, 6, 8265-8270.	10.3	30
112	Crystal Structure of the Mixed Oxides La _{0.7} Sr _{0.3} Co _{1-z} Mn _z O _{3±y} (0 ≤ z ≤ 1). Journal of Solid State Chemistry, 1999, 143, 52-57.	2.9	29
113	Determination of Thermodynamics and Kinetics of Point Defects in Cu ₂ O Using the Rosenberg Method. Journal of the Electrochemical Society, 1999, 146, 999-1004.	2.9	29
114	Synthesis, densification and electrical properties of strontium cerate ceramics. Journal of the European Ceramic Society, 2007, 27, 4461-4471.	5.7	29
115	Oxygen and Hydrogen Separation Membranes Based on Dense Ceramic Conductors. Membrane Science and Technology, 2008, , 401-458.	0.5	29
116	Hydration and proton conductivity in LaAsO ₄ . Journal of Materials Chemistry, 2012, 22, 1652-1661.	6.7	29
117	Cathode compatibility, operation, and stability of LaNbO ₄ -based proton conducting fuel cells. Solid State Ionics, 2014, 262, 382-387.	2.7	29
118	Evaluating surface protonic transport on cerium oxide via electrochemical impedance spectroscopy measurement. Solid State Communications, 2018, 270, 45-49.	1.9	29
119	Ceramic Proton and Mixed Proton-Electron Conductors in Membranes for Energy Conversion Applications. Journal of Chemical Engineering of Japan, 2007, 40, 1166-1171.	0.6	26
120	Solid-state photoelectrochemical cell with TiO ₂ nanotubes for water splitting. Photochemical and Photobiological Sciences, 2017, 16, 10-16.	2.9	26
121	Determination of thermodynamics and kinetics of point defects in NiO using the Rosenberg method. Solid State Ionics, 1998, 111, 323-332.	2.7	25
122	Defects and transport in Gd-doped BaPrO ₃ . Journal of Electroceramics, 2009, 23, 80-88.	2.0	25
123	Hydration of Rutile TiO ₂ : Thermodynamics and Effects on <i>n</i> - and <i>p</i> -Type Electronic Conduction. Journal of Physical Chemistry C, 2010, 114, 9139-9145.	3.1	25
124	Influence of processing on stability, microstructure and thermoelectric properties of Ca ₃ Co _{4-x} O _{9+δ} . Journal of the European Ceramic Society, 2018, 38, 1592-1599.	5.7	25
125	Dense ceramic membranes based on ion conducting oxides. Annales De Chimie: Science Des Materiaux, 2007, 32, 197-212.	0.4	25
126	Local condensation around oxygen vacancies in t-LaNbO ₄ from first principles calculations. Physical Chemistry Chemical Physics, 2009, 11, 5550.	2.8	24

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127	Oxygen Nonstoichiometry in $(\text{Ca}_{2-x}\text{Co}_{3-x})_{0.62}(\text{CoO})_2$: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18899-18907.	3.1	24
128	Liquid phases in Li:MgO as studied by thermoanalytical methods, electron microscopy, and electrical conductivity measurements. <i>Catalysis Today</i> , 1990, 6, 575-586.	4.4	23
129	On phase relations, transport properties and defect structure in mixed conducting $\text{SrFe}_{1.5-x}\text{Co}_x\text{O}_z$. <i>Solid State Ionics</i> , 2000, 129, 285-297.	2.7	23
130	Transport properties and defect analysis of $\text{La}_{1.9}\text{Sr}_{0.1}\text{NiO}_4+\delta$. <i>Solid State Ionics</i> , 2009, 180, 1433-1441.	2.7	23
131	Preparation and Characterization of Ni/LaNbO_4 Cermet Anode Supports for Proton-Conducting Fuel Cell Applications. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2650-2655.	3.8	23
132	Investigation of $\text{La}_{1-x}\text{Sr}_x\text{CrO}_3+\delta$, ($x \sim 0.1$) as Membrane for Hydrogen Production. <i>Membranes</i> , 2012, 2, 665-686.	3.0	23
133	Electromotive Force (emf) Determination of Transport Numbers for Native and Foreign Ions in Molten Alkali Metal Carbonates. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1135-F1143.	2.9	23
134	Protons in Oxysulfides, Oxysulfates, and Sulfides: A First-Principles Study of $\text{La}_2\text{O}_2\text{S}$, $\text{La}_2\text{O}_2\text{SO}_4$, SrZrS_3 , and BaZrS_3 . <i>Journal of Physical Chemistry C</i> , 2015, 119, 23875-23882.	3.1	23
135	Segregation of Sr in Sr-doped LaPO_4 ceramics. <i>Surface and Interface Analysis</i> , 2000, 30, 95-97.	1.8	22
136	Measurements of surface exchange kinetics and chemical diffusion in dense oxygen selective membranes. <i>Catalysis Today</i> , 2000, 56, 315-324.	4.4	22
137	Proton conductivity of Ca-doped Tb_2O_3 . <i>Solid State Ionics</i> , 2005, 176, 2957-2961.	2.7	22
138	Structural transitions and conductivity of BaPrO_3 and $\text{BaPr}_{0.9}\text{Y}_{0.1}\text{O}_3+\delta$. <i>Journal of Materials Chemistry</i> , 2009, 19, 3238.	6.7	22
139	Proton Conductivity in Acceptor-Doped LaVO_4 . <i>Journal of the Electrochemical Society</i> , 2011, 158, B857.	2.9	22
140	Intrinsic photoelectrocatalytic activity in oriented, photonic TiO_2 nanotubes. <i>Materials Science in Semiconductor Processing</i> , 2018, 88, 186-191.	4.0	22
141	Hydrogen from wet air and sunlight in a tandem photoelectrochemical cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 587-593.	7.1	22
142	Protonic conductivity in Ca-doped yttria. <i>Solid State Ionics</i> , 1991, 49, 73-77.	2.7	21
143	Ionic and Electronic Conductivity of 5% Ca-Doped GdNbO_4 . <i>Journal of the Electrochemical Society</i> , 2006, 153, J87.	2.9	21
144	Reactivity between Titanium Dioxide and Water at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18215-18221.	3.1	21

#	ARTICLE	IF	CITATIONS
145	Influence of Pr substitution on defects, transport, and grain boundary properties of acceptor-doped BaZrO ₃ . International Journal of Hydrogen Energy, 2012, 37, 7962-7969.	7.1	21
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