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List of Publications by Year
in descending order

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290	11,790	36303	39675
papers	citations	51 h-index	94 g-index

296	296	296	8398
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lanthanum strontium cobaltite as interconnect in oxide thermoelectric generators. Solid State Sciences, 2022, 124, 106801.	3.2	5
2	La2Ce2O7 doped with alkaline earth elements: Phase behavior, hydration and electrical properties. Journal of Alloys and Compounds, 2022, 899, 163306.	5.5	15
3	Impedance spectroscopy study of Au electrodes on Gd-doped CeO2 (GDC) â€“ Molten Li2CO3+Na2CO3 (LNC) composite electrolytes. Journal of Power Sources, 2022, 522, 230986.	7.8	4
4	Immobilization of FeFe-hydrogenase on black TiO2 nanotubes as biocathodes for the hydrogen evolution reaction. Electrochemistry Communications, 2022, 135, 107221.	4.7	8
5	La1-xSrxMO3 (M = Co, Mn, Cr) interconnects in a 4-leg all-oxide thermoelectric generator at high temperatures. Journal of Physics and Chemistry of Solids, 2022, 167, 110739.	4.0	1
6	Single-step hydrogen production from NH ₃ , CH ₄ , and biogas in stacked proton ceramic reactors. Science, 2022, 376, 390-393.	12.6	56
7	Protonic Conduction in La₂NiO₄₊_{Î´} and La_{2â€“}_xA_xNiO₄₊_{Î´} (AÂ= Ca,) TpETQq1 1 0.7843	2.5	14
8	Quantifiable models for surface protonic conductivity in porous oxides â€“ case of monoclinic ZrO₂. Physical Chemistry Chemical Physics, 2022, 24, 11856-11871.	2.8	6
9	Mechanisms for sonochemical oxidation of nitrogen. Physical Chemistry Chemical Physics, 2022, 24, 15357-15364.	2.8	2
10	Galvanic Restructuring of Exsolved Nanoparticles for Plasmonic and Electrocatalytic Energy Conversion. Small, 2022, 18, .	10.0	2
11	High performance and toxicity assessment of Ta3N5 nanotubes for photoelectrochemical water splitting. Catalysis Today, 2021, 361, 57-62.	4.4	3
12	Photocatalytic generation of gas phase reactive oxygen species from adsorbed water: Remote action and electrochemical detection. Journal of Environmental Chemical Engineering, 2021, 9, 104809.	6.7	10
13	Increasing the thermal expansion of proton conducting Y-doped BaZrO3 by Sr and Ce substitution. Solid State Ionics, 2021, 359, 115534.	2.7	10
14	Enhanced activity of catalysts on substrates with surface protonic current in an electrical field â€“ a review. Chemical Communications, 2021, 57, 5737-5749.	4.1	21
15	Near-Broken-Gap Alignment between FeWO₄ and Fe₂WO₆ for Ohmic Direct pâ€“n Junction Thermoelectrics. ACS Applied Materials & Interfaces, 2021, 13, 7416-7422.	8.0	11
16	Visible Light Driven Photocatalytic Decolorization and Disinfection of Water Employing Reduced TiO2 Nanopowders. Catalysts, 2021, 11, 228.	3.5	15
17	Al-doped ZnO prepared by co-precipitation method and its thermoelectric characteristics. Materials Letters, 2021, 288, 129352.	2.6	21
18	Versatile four-leg thermoelectric module test setup adapted to a commercial sample holder system for high temperatures and controlled atmospheres. Review of Scientific Instruments, 2021, 92, 043902.	1.3	3

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19	Double Perovskite Cobaltites Integrated in a Monolithic and Noble Metal-Free Photoelectrochemical Device for Efficient Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 20313-20325.	8.0	17
20	Development of Proton Conducting Ceramic Cells in Metal Supported Architecture. ECS Transactions, 2021, 103, 1779-1789.	0.5	3
21	Microstructure and electrochemical behavior of layered cathodes for molten carbonate fuel cell. Journal of Power Sources, 2021, 500, 229949.	7.8	11
22	Metal Supported Proton Conducting Ceramic Cell with Thin Film Electrolyte for Electrolysis Application. ECS Transactions, 2021, 103, 693-700.	0.5	0
23	Water Vapor Photoelectrolysis in a Solid-State Photoelectrochemical Cell with TiO₂ Nanotubes Loaded with CdS and CdSe Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 46875-46885.	8.0	16
24	In situ cofactor regeneration enables selective CO2 reduction in a stable and efficient enzymatic photoelectrochemical cell. Applied Catalysis B: Environmental, 2021, 296, 120349.	20.2	21
25	Facet-engineered TiO₂ nanomaterials reveal the role of waterâ€“oxide interactions in surface protonic conduction. Journal of Materials Chemistry A, 2021, 10, 218-227.	10.3	8
26	Voids in walls of mesoporous TiO2 anatase nanotubes by controlled formation and annihilation of protonated titanium vacancies. Materials Chemistry and Physics, 2020, 239, 121953.	4.0	5
27	Thermoelectric properties of A-site deficient La-doped SrTiO3 at 100â€“900â€Â°C under reducing conditions. Journal of the European Ceramic Society, 2020, 40, 401-407.	5.7	32
28	Thermoelectric properties of non-stoichiometric CaMnO3-Î´ composites formed by redox-activated exsolution. Journal of the European Ceramic Society, 2020, 40, 1344-1351.	5.7	17
29	Structure and water uptake in BaLnCo2O6â^'Î´ (Ln =La, Pr, Nd, Sm, Gd, Tb and Dy). Acta Materialia, 2020, 199, 297-310.	7.9	18
30	Ionic conductivity in LixTaOy thin films grown by atomic layer deposition. Electrochimica Acta, 2020, 361, 137019.	5.2	6
31	Support effects on catalysis of low temperature methane steam reforming. RSC Advances, 2020, 10, 26418-26424.	3.6	14
32	Structure, hydration, and proton conductivity in 50% La and Nd doped CeO2 â€“ La2Ce2O7 and Nd2Ce2O7 â€“ and their solid solutions. Solid State Ionics, 2020, 354, 115401.	2.7	18
33	Defects and polaronic electron transport in Fe₂WO₆. Physical Chemistry Chemical Physics, 2020, 22, 15541-15548.	2.8	5
34	High-Temperature Structural and Electrical Properties of BaLnCo2O6 Positrodes. Materials, 2020, 13, 4044.	2.9	15
35	First-Principles Analyses of Nanoionic Effects at Oxideâ€“Oxide Heterointerfaces for Electrochemical Applications. Journal of Physical Chemistry C, 2020, 124, 14072-14081.	3.1	1
36	Assessing common approximations in space charge modelling to estimate the proton resistance across grain boundaries in Y-doped BaZrO₃. Physical Chemistry Chemical Physics, 2020, 22, 11891-11902.	2.8	7

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37	Disagreements between space charge models and grain boundary impedance data in yttrium-substituted barium zirconate. Solid State Ionics, 2020, 353, 115369.	2.7	13
38	Effects of metal cation doping in CeO₂ support on catalytic methane steam reforming at low temperature in an electric field. RSC Advances, 2020, 10, 14487-14492.	3.6	20
39	Importance of the Spinâ€“Orbit Interaction for a Consistent Theoretical Description of Small Polarons in Pr-Doped CeO₂. Journal of Physical Chemistry C, 2020, 124, 15831-15838.	3.1	9
40	Silver coated cathode for molten carbonate fuel cells. International Journal of Hydrogen Energy, 2020, 45, 19847-19857.	7.1	12
41	MOF-modified polyester fabric coated with reduced graphene oxide/polypyrrole as electrode for flexible supercapacitors. Electrochimica Acta, 2020, 336, 135743.	5.2	45
42	First observation of surface protonics on SrZrO₃ perovskite under a H₂ atmosphere. Chemical Communications, 2020, 56, 2699-2702.	4.1	13
43	Chemical stability of Ca₃Co_{4â^'x}O_{9+Î´}/CaMnO_{3â^'Î´} pâ€“n junction for oxide-based thermoelectric generators. RSC Advances, 2020, 10, 5026-5031.	3.6	3
44	Charge-Carrier Enrichment at BaZrO₃/SrTiO₃ Interfaces. Journal of Physical Chemistry C, 2019, 123, 20808-20816.	3.1	7
45	Black Anatase TiO₂ Nanotubes with Tunable Orientation for High Performance Supercapacitors. Journal of Physical Chemistry C, 2019, 123, 21931-21940.	3.1	33
46	Composite Membranes for High Temperature PEM Fuel Cells and Electrolysers: A Critical Review. Membranes, 2019, 9, 83.	3.0	114
47	Investigation of the electrostatic potential of a grain boundary in Y-substituted BaZrO3 using inline electron holography. Physical Chemistry Chemical Physics, 2019, 21, 17662-17672.	2.8	10
48	Fabrication of Metal-Supported Proton-Conducting Electrolysers with Thin Film Sr- and Ce-Doped BZY Electrolyte. ECS Transactions, 2019, 91, 941-949.	0.5	3
49	Development of Metal Supported Cells Using BaZrO3-Based Proton Conducting Ceramics. ECS Transactions, 2019, 91, 1035-1045.	0.5	5
50	Surface reactivity and cation non-stoichiometry in BaZr_{1â^'x}Y_xO_{3â^'Î´} (x = 0â€“0.2) exposed to CO₂ at elevated temperature. Journal of Materials Chemistry A, 2019, 7, 3848-3856.	10.3	21
51	Deep decarbonization efforts in Norway for energy sustainability. MRS Energy & Sustainability, 2019, 6, 1.	3.0	1
52	Acid reactions in hub systems consisting of separate non-reactive CO2 transport lines. International Journal of Greenhouse Gas Control, 2019, 87, 246-255.	4.6	17
53	Mixed proton and electron conducting double perovskite anodes for stable and efficient tubular proton ceramic electrolysers. Nature Materials, 2019, 18, 752-759.	27.5	191
54	Preparation of TiO2 rutile nanorods decorated with cobalt oxide nanoparticles for solar photoelectrochemical activity. Materials Letters, 2019, 247, 1-3.	2.6	8

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55	A textile-based wearable supercapacitor using reduced graphene oxide/polypyrrole composite. Electrochimica Acta, 2019, 305, 187-196.	5.2	125
56	Highly Correlated Hydride Ion Tracer Diffusion in SrTiO_{3â€“x}H_x Oxyhydrides. Journal of the American Chemical Society, 2019, 141, 4653-4659.	13.7	20
57	Thermoelectric Properties of Ca3Co2â^'xMnxO6 (x = 0.05, 0.2, 0.5, 0.75, and 1). Materials, 2019, 12, 497.	2.9	6
58	Effect of SO2, O2, NO2, and H2O Concentrations on Chemical Reactions and Corrosion of Carbon Steel in Dense Phase CO2. Corrosion, 2019, 75, 1327-1338.	1.1	15
59	Improved CO2 flux by dissolution of oxide ions into the molten carbonate phase of dual-phase CO2 separation membranes. Separation and Purification Technology, 2019, 212, 723-727.	7.9	10
60	Hydrogen from wet air and sunlight in a tandem photoelectrochemical cell. International Journal of Hydrogen Energy, 2019, 44, 587-593.	7.1	22
61	Ta3N5/Co(OH)x composites as photocatalysts for photoelectrochemical water splitting. Photochemical and Photobiological Sciences, 2019, 18, 837-844.	2.9	14
62	Is ReO₃ a mixed ionicâ€“electronic conductor? A DFT study of defect formation and migration in a B^{VI}O₃ perovskite-type oxide. Physical Chemistry Chemical Physics, 2018, 20, 8008-8015.	2.8	16
63	Chemical tracer diffusion of Sr and Co in polycrystalline Ca-deficient CaMnO_{3â^'Î´}with CaMn₂O₄precipitates. Physical Chemistry Chemical Physics, 2018, 20, 2754-2760.	2.8	6
64	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
65	Inter-diffusion across a direct p-n heterojunction of Li-doped NiO and Al-doped ZnO. Solid State Ionics, 2018, 320, 215-220.	2.7	13
66	Performance and stability in H2S of SrFe0.75Mo0.25O3-Î´ as electrode in proton ceramic fuel cells. Journal of the European Ceramic Society, 2018, 38, 163-171.	5.7	14
67	Evaluating surface protonic transport on cerium oxide via electrochemical impedance spectroscopy measurement. Solid State Communications, 2018, 270, 45-49.	1.9	29
68	Influence of processing on stability, microstructure and thermoelectric properties of Ca3Co4â^'xO9+Î´. Journal of the European Ceramic Society, 2018, 38, 1592-1599.	5.7	25
69	Earth-Abundant Electrocatalysts in Proton Exchange Membrane Electrolyzers. Catalysts, 2018, 8, 657.	3.5	51
70	The influence of acceptor and donor doping on the protonic surface conduction of TiO₂. Physical Chemistry Chemical Physics, 2018, 20, 15653-15660.	2.8	19
71	Ohmically heated ceramic asymmetric tubular membranes for gas separation. Journal of Membrane Science, 2018, 564, 598-604.	8.2	6
72	Intrinsic photoelectrocatalytic activity in oriented, photonic TiO2 nanotubes. Materials Science in Semiconductor Processing, 2018, 88, 186-191.	4.0	22

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73	All-Oxide Thermoelectric Module with in Situ Formed Non-Rectifying Complex pâ€“pâ€“n Junction and Transverse Thermoelectric Effect. ACS Omega, 2018, 3, 9899-9906.	3.5	13
74	Electrical Properties of a pâ€“n Heterojunction of Li-Doped NiO and Al-Doped ZnO for Thermoelectrics. Journal of Electronic Materials, 2018, 47, 5296-5301.	2.2	6
75	Electrochemical and degradation study of Sr0.6Na0.4SiO3-Î´. Journal of Solid State Electrochemistry, 2018, 22, 3009-3013.	2.5	2
76	Ba_{0.5}Gd_{0.8}La_{0.7}Co₂O_{6-Î´}Infiltrated in Porous BaZr_{0.7}Ce_{0.2}Y_{0.1}O₃Backbones as Electrode Material for Proton Ceramic Electrolytes. Journal of the Electrochemical Society, 2017, 164, F196-F202.	2.9	20
77	Thermal stability and enhanced thermoelectric properties of the tetragonal tungsten bronzes Nb8â^'xW9+xO47 (0 < x < 5). Journal of Materials Chemistry A, 2017, 5, 9768-9774.	10.3	17
78	Mechanisms of Protonic Surface Transport in Porous Oxides: Example of YSZ. Journal of Physical Chemistry C, 2017, 121, 12817-12825.	3.1	72
79	Comparison of Cu and Pt point-contact electrodes on proton conducting BaZr0.7Ce0.2Y0.1O3â^'. Solid State Ionics, 2017, 306, 38-47.	2.7	7
80	Layered microstructures based on BaZr0.85Y0.15O3â^'Î´ by pulsed laser deposition for metal-supported proton ceramic electrolyser cells. Journal of Materials Science, 2017, 52, 6486-6497.	3.7	17
81	Assessing the photoelectrochemical properties of C, N, F codoped TiO 2 nanotubes of different lengths. Catalysis Today, 2017, 287, 161-168.	4.4	31
82	Thermo-electrochemical production of compressed hydrogen from methane with near-zero energy loss. Nature Energy, 2017, 2, 923-931.	39.5	178
83	On the Conductivity of KBaPO4and Its Decomposition in Steam and Water. Journal of the Electrochemical Society, 2017, 164, F885-F888.	2.9	0
84	Relating defect chemistry and electronic transport in the double perovskite Ba_{1â^'x}Gd_{0.8}La_{0.2+x}Co₂O_{6â^'Î´} (BGLC). Journal of Materials Chemistry A, 2017, 5, 15743-15751.	10.3	32
85	Electrochemical performance of Co3O4/CeO2 electrodes in H2S/H2O atmospheres in a proton-conducting ceramic symmetrical cell with BaZr0.7Ce0.2Y0.1O3 solid electrolyte. Solid State Ionics, 2017, 306, 31-37.	2.7	9
86	Solid-state photoelectrochemical cell with TiO2 nanotubes for water splitting. Photochemical and Photobiological Sciences, 2017, 16, 10-16.	2.9	26
87	The Band Gap of BaPrO₃ Studied by Optical and Electrical Methods. Journal of the American Ceramic Society, 2016, 99, 492-498.	3.8	4
88	Surface defect chemistry of Y-substituted and hydrated BaZrO₃ with subsurface space-charge regions. Journal of Materials Chemistry A, 2016, 4, 7437-7444.	10.3	38
89	Solubility of transition metal interstitials in proton conducting BaZrO₃ and similar perovskite oxides. Journal of Materials Chemistry A, 2016, 4, 8105-8112.	10.3	44
90	Direct conversion of methane to aromatics in a catalytic co-ionic membrane reactor. Science, 2016, 353, 563-566.	12.6	341

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91	C-type related order in the defective fluorites La₂Ce₂O₇ and Nd₂Ce₂O₇ studied by neutron scattering and ab initio MD simulations. Physical Chemistry Chemical Physics, 2016, 18, 24070-24080.	2.8	18
92	Electrical characterization of amorphous LiAlO₂ thin films deposited by atomic layer deposition. RSC Advances, 2016, 6, 60479-60486.	3.6	34
93	Proton segregation and space-charge at the BaZrO3 (0 0 1)/MgO (0 0 1) heterointerface. Solid State Ionics, 2016, 297, 77-81.	2.7	11
94	Highlights from Faraday Discussion 182: Solid Oxide Electrolysis: Fuels and Feedstocks from Water and Air, York, UK, July 2015. Chemical Communications, 2016, 52, 1759-1767.	4.1	4
95	Reaction Kinetics of Protons and Oxide Ions in LSM/Lanthanum Tungstate Cathodes with Pt Nanoparticle Activation. Journal of the Electrochemical Society, 2016, 163, F507-F515.	2.9	16
96	On the development of proton ceramic fuel cells based on Ca-doped LaNbO4 as electrolyte. Journal of Power Sources, 2015, 282, 28-33.	7.8	45
97	Structural study of the complex perovskite Ba4(Ba2Nb2)O11. Materials Characterization, 2015, 102, 71-78.	4.4	3
98	Steam-promoted CO2 flux in dual-phase CO2 separation membranes. Journal of Membrane Science, 2015, 482, 115-119.	8.2	30
99	Tetragonal tungsten bronzes Nb_{8â^'x}W_{9+x}O_{47â^'Î´}: optimization strategies and transport properties of a new n-type thermoelectric oxide. Materials Horizons, 2015, 2, 519-527.	12.2	15
100	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
101	Hall effect measurements on thermoelectric Ca3Co4O9: On how to determine the charge carrier concentration in strongly correlated misfit cobaltites. Journal of Applied Physics, 2015, 117, .	2.5	10
102	Gd- and Pr-based double perovskite cobaltites as oxygen electrodes for proton ceramic fuel cells and electrolyser cells. Solid State Ionics, 2015, 278, 120-132.	2.7	136
103	Electromotive Force (emf) Determination of Transport Numbers for Native and Foreign Ions in Molten Alkali Metal Carbonates. Journal of the Electrochemical Society, 2015, 162, F1135-F1143.	2.9	23
104	Electrochemical promotion of the hydrogenation of CO 2 on Ru deposited on a BZY proton conductor. Journal of Catalysis, 2015, 331, 98-109.	6.2	44
105	Protons in Oxysulfides, Oxysulfates, and Sulfides: A First-Principles Study of La₂O₂S, La₂O₂SO₄, SrZrS₃, and BaZrS₃. Journal of Physical Chemistry C, 2015, 119, 23875-23882.	3.1	23
106	Protons in piezoelectric langatate; La3Ga5.5Ta0.5O14. Solid State Ionics, 2015, 278, 275-280.	2.7	6
107	Versatile apparatus for thermoelectric characterization of oxides at high temperatures. Review of Scientific Instruments, 2014, 85, 103906.	1.3	31
108	Protons in acceptor doped langasite, La3Ga5SiO14. Solid State Ionics, 2014, 264, 76-84.	2.7	10

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109	Cathode compatibility, operation, and stability of LaNbO4-based proton conducting fuel cells. Solid State Ionics, 2014, 262, 382-387.	2.7	29
110	Cation transport in Sr and Cu substituted La2NiO4+Î´ studied by inter-diffusion. Solid State Ionics, 2014, 254, 32-39.	2.7	4
111	High temperature transport properties of thermoelectric CaMnO3â¯Î´ â€" Indication of strongly interacting small polarons. Journal of Applied Physics, 2014, 115, 103705.	2.5	38
112	Electronic Transport Properties of [Ca₂CoO_{3â¯Î´}]_q[CoO₂]. Journal of Physical Chemistry C, 2014, 118, 2908-2918.	3.1	39
113	Coking Study in Anode Materials for SOFCs: Physicochemical Properties and Behavior of Mo-Containing Perovskites in CO and CH₄ Fuels. ECS Transactions, 2014, 64, 103-116.	0.5	5
114	Oxygen Nonstoichiometry in (Ca₂CoO₃)_{0.62}(CoO₂): A Combined Experimental and Computational Study. Journal of Physical Chemistry C, 2014, 118, 18899-18907.	3.1	24
115	Hydrogen Oxidation Kinetics and Performance of Ni-LaNbO₄Cermet Anodes for Proton Conducting SOFCs. Journal of the Electrochemical Society, 2014, 161, F373-F379.	2.9	6
116	Effects of temperature, triazole and hot-pressing on the performance of TiO2 photoanode in a solid-state photoelectrochemical cell. Electrochimica Acta, 2014, 115, 66-74.	5.2	10
117	Vacancy ordering and superstructure formation in dry and hydrated strontium tantalate perovskites: A TEM perspective. Micron, 2014, 62, 11-27.	2.2	4
118	Defect Chemistry of Rutile TiO₂ from First Principles Calculations. Journal of Physical Chemistry C, 2013, 117, 5919-5930.	3.1	45
119	The defect chemistry of nitrogen in oxides: A review of experimental and theoretical studies. Journal of Solid State Chemistry, 2013, 198, 65-76.	2.9	10
120	Inter-diffusion in lanthanum tungsten oxide. Solid State Ionics, 2013, 244, 57-62.	2.7	14
121	Solid Proton Conductors: Oxides and Polymers. Fuel Cells, 2013, 13, 4-5.	2.4	0
122	On the Complex Structural Picture of the Ionic Conductor Sr₆Ta₂O₁₁. Journal of Physical Chemistry C, 2013, 117, 9543-9549.	3.1	6
123	Hydration of lanthanum tungstate (La/W=5.6 and 5.3) studied by TG and simultaneous TGâ€"DSC. Solid State Ionics, 2013, 231, 25-29.	2.7	35
124	Solid-state photoelectrochemical H2 generation with gaseous reactants. Electrochimica Acta, 2013, 97, 320-325.	5.2	32
125	Determination of inter-diffusion coefficients for the A- and B-site in the A2BO4+Î´ (A = La, Nd and B = Ni,) Tj ETQq1 1 0.784314 rgBT /O	2.7	14
126	Determination of Chemical Tracer Diffusion Coefficients for the <scp><scp>La</scp></scp>â€•and <scp><scp>Ni</scp></scp>â€šsite in <scp><scp>La</scp></scp>₂<scp><scp>NiO</scp></scp>_{4+Î´} Studied by <scp>SIMS</scp>. Journal of the American Ceramic Society, 2013, 96, 598-605.	3.8	9

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127	Investigation of La1âˆ’xSrxCrO3âˆ’â€, (x ~ 0.1) as Membrane for Hydrogen Production. Membranes, 2012, 2, 665-686.	3.0	23
128	Theoretical analysis of oxygen vacancies in layered sodium cobaltate, Na_xCoO_{2â˜Î´}. Journal of Physics Condensed Matter, 2012, 24, 475505.	1.8	15
129	Complete structural model for lanthanum tungstate: a chemically stable high temperature proton conductor by means of intrinsic defects. Journal of Materials Chemistry, 2012, 22, 1762-1764.	6.7	91
130	Nitrogen defects in wide band gap oxides: defect equilibria and electronic structure from first principles calculations. Physical Chemistry Chemical Physics, 2012, 14, 11808.	2.8	15
131	Interfacial Charge Transfer and Chemical Bonding in a Niâ€“LaNbO₄ Cermet for Proton-Conducting Solid-Oxide Fuel Cell Anodes. Chemistry of Materials, 2012, 24, 4152-4159.	6.7	16
132	H and Li Related Defects in ZnO and Their Effect on Electrical Properties. Journal of Physical Chemistry C, 2012, 116, 23764-23772.	3.1	33
133	Crystal structure, hydration and ionic conductivity of the inherently oxygen-deficient La2Ce2O7. Solid State Ionics, 2012, 228, 1-7.	2.7	77
134	Conductivity and hydration trends in disordered fluorite and pyrochlore oxides: A study on lanthanum cerateâ€“zirconate based compounds. Solid State Ionics, 2012, 229, 26-32.	2.7	32
135	Hydration and proton conductivity in LaAsO₄. Journal of Materials Chemistry, 2012, 22, 1652-1661.	6.7	29
136	Determination of the Self-Diffusion Coefficient of Ni2+in La2NiO4+Î´by the Solid State Reaction Method. Journal of the Electrochemical Society, 2012, 159, B702-B708.	2.9	7
137	Kinetic Decomposition of a La2NiO4+Î´Membrane under an Oxygen Potential Gradient. Journal of the Electrochemical Society, 2012, 159, F461-F467.	2.9	3
138	Effects of A and B site acceptor doping on hydration and proton mobility of LaNbO4. International Journal of Hydrogen Energy, 2012, 37, 8004-8016.	7.1	55
139	Influence of Pr substitution on defects, transport, and grain boundary properties of acceptor-doped BaZrO3. International Journal of Hydrogen Energy, 2012, 37, 7962-7969.	7.1	21
140	Hydrogen energetics and charge transfer in the Ni/LaNbO4 interface from DFT calculations. International Journal of Hydrogen Energy, 2012, 37, 8033-8042.	7.1	6
141	Defect structure and its nomenclature for mixed conducting lanthanum tungstates La28â€“xW4+xO54+3x/2. International Journal of Hydrogen Energy, 2012, 37, 8051-8055.	7.1	66
142	On the hydration of grain boundaries and bulk of proton conducting BaZr0.7Pr0.2Y0.1O3-Î´. International Journal of Hydrogen Energy, 2012, 37, 7970-7974.	7.1	5
143	Effect of cation disorder on the solubility and result of doping in oxides. International Journal of Hydrogen Energy, 2012, 37, 8062-8065.	7.1	3
144	Defects at the (1 1 0) surface of rutile TiO2 from ab initio calculations. International Journal of Hydrogen Energy, 2012, 37, 8110-8117.	7.1	13

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145	Atomistic study of LaNbO4; surface properties and hydrogen adsorption. International Journal of Hydrogen Energy, 2012, 37, 6674-6685.	7.1	13
146	Preface of the Special Issue of International Journal of Hydrogen Energy: Proceedings of the 7th Petite Workshop on the Defect Chemical Nature of Energy Materials. International Journal of Hydrogen Energy, 2012, 37, 7953.	7.1	0
147	Synthesis, Sintering, Transport Properties, and Surface Exchange of <scp><scp>La</scp></scp>₂<scp><scp>Ni</scp></scp>_{0.9}<scp><scp>Cu</scp></scp>_{0.1}<scp> Journal of the American Ceramic Society, 2012, 95, 2065-2073.	3.8	14
148	One-dimensional WO3 and its hydrate: One-step synthesis, structural and spectroscopic characterization. Journal of Solid State Chemistry, 2012, 185, 245-252.	2.9	17
149	Neutron diffraction study of the monoclinic to tetragonal structural transition in LaNbO4 and its relation to proton mobility. Journal of Solid State Chemistry, 2012, 187, 27-34.	2.9	40
150	Nitrogen defects from NH₃in rare-earth sesquioxides and ZrO₂. Dalton Transactions, 2011, 40, 132-135.	3.3	9
151	Investigation of pitting resistance of titanium based on a modified point defect model. Corrosion Science, 2011, 53, 815-821.	6.6	70
152	Structure, Water Uptake, and Electrical Conductivity of TiP2O7. Journal of the American Ceramic Society, 2011, 94, 1514-1522.	3.8	46
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