Andrei V Kovalevsky

List of Publications by Year
in descending order

167 papers	5,130 citations	87888 38 h-index	102487 66 g-index
170 all docs	170 docs citations	170 times ranked	3666 citing authors

#	Article	IF	Citations
1	Unexpected atmosphere effect on the iron oxide growth by the Laser Floating Zone method. Journal of Alloys and Compounds, 2022, 895, 162457.	5.5	1
2	Photocatalytic removal of benzene over Ti₃C₂T_{<i>x</i>} MXene and TiO₂â€"MXene composite materials under solar and NIR irradiation. Journal of Materials Chemistry C, 2022, 10, 626-639.	5.5	13
3	Prospects of Using Pseudobrookite as an Iron-Bearing Mineral for the Alkaline Electrolytic Production of Iron. Materials, 2022, 15, 1440.	2.9	1
4	Guidelines for processing of porous barium zirconate-based ceramic electrolytes for electrochemical solid oxide cell applications. Journal of the European Ceramic Society, 2022, 42, 4998-5007.	5.7	1
5	Assessment of the laser floating zone processing of thermoelectric CuFe1â€"xNixO2 delafossites and their magnetic characterisation. Journal of Alloys and Compounds, 2022, , 165678.	5.5	1
6	On the high-temperature degradation mechanism of ZnO-based thermoelectrics. Journal of the European Ceramic Society, 2021, 41, 1730-1734.	5.7	6
7	Microstructural design of cellular 3ÂYTZ-Al2O3 ceramic membranes. Ceramics International, 2021, 47, 1040-1046.	4.8	2
8	Prospects for Electrical Performance Tuning in Ca3Co4O9 Materials by Metallic Fe and Ni Particles Additions. Materials, 2021, 14, 980.	2.9	4
9	MXene-containing composite electrodes for hydrogen evolution: Material design aspects and approaches for electrode fabrication. International Journal of Hydrogen Energy, 2021, 46, 11636-11651.	7.1	12
10	Magnetic and structural properties of La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1941" altimg="si92.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Gd<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1953" altimg="si93.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msu	2.7	2
11	Tubular Thermoelectric Module Based on Oxide Elements Grown by the Laser Floating Zone. ACS Applied Energy Materials, 2021, 4, 5848-5857.	5.1	5
12	Exploring the High-Temperature Electrical Performance of Ca3âˆ'xLaxCo4O9 Thermoelectric Ceramics for Moderate and Low Substitution Levels. Symmetry, 2021, 13, 782.	2.2	2
13	Alkaline Electrochemical Reduction of a Magnesium Ferrospinel into Metallic Iron for the Valorisation of Magnetite-Based Metallurgical Waste. Journal of the Electrochemical Society, 2021, 168, 073504.	2.9	5
14	Electrical assessment of brownmillerite-type calcium ferrite materials obtained by proteic sol-gel route and by solid-state reaction using mollusk shells. Journal of Solid State Chemistry, 2021, 299, 122172.	2.9	6
15	Processing mediated enhancement of ferroelectric and electrocaloric properties in Ba(Ti0.8Zr0.2)O3â€"(Ba0.7Ca0.3)TiO3 lead-free piezoelectrics. Journal of the European Ceramic Society, 2021, 41, 6424-6440.	5.7	9
16	Electrochemical saturation of antimony-lead melts with oxygen: Cell design and measurement. Electrochimica Acta, 2021, 395, 139206.	5.2	0
17	Ionic transport in (La,Sr)CoO3-Î´ ceramics. Journal of Solid State Electrochemistry, 2021, 25, 2777.	2.5	0
18	Cellular zirconia ceramics processed by direct emulsification. Journal of the European Ceramic Society, 2020, 40, 2056-2062.	5.7	6

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19	The effect of temperature and pressure on the spin state of cobalt ions in La1âˆ’xPrxCoO3 compounds. Low Temperature Physics, 2020, 46, 606-614.	0.6	2
20	Electrical conductivity and thermal expansion of Ln-substituted SrTiO3 for solid oxide cell electrodes and interconnects: The effect of rare-earth cation size. Journal of Power Sources, 2020, 474, 228531.	7.8	15
21	Unravelling the Effects of Calcium Substitution in BaGd₂CoO₅ Haldane Gap 1D Material and Its Thermoelectric Performance. Journal of Physical Chemistry C, 2020, 124, 13017-13025.	3.1	2
22	Direct processing of cellular ceramics from a single red mud precursor. Ceramics International, 2020, 46, 16700-16707.	4.8	10
23	Effects of Temperature and Pressure on the Magnetic Properties of La 1â€“ x Pr x CoO 3. Physica Status Solidi (B): Basic Research, 2020, 257, 2000085.	1.5	2
24	Impact of the pulling rate on the redox state and magnetic domains of Fe-Si-O glass ceramic processed by LFZ method. Materials Research Bulletin, 2020, 131, 110972.	5.2	8
25	Redox engineering of strontium titanate-based thermoelectrics. Journal of Materials Chemistry A, 2020, 8, 7317-7330.	10.3	18
26	Redox-Promoted Tailoring of the High-Temperature Electrical Performance in Ca3Co4O9 Thermoelectric Materials by Metallic Cobalt Addition. Materials, 2020, 13, 1060.	2.9	11
27	Thermoelectric modules built using ceramic legs grown by laser floating zone. Ceramics International, 2020, 46, 24318-24325.	4.8	4
28	Laser processing as a tool for designing donor-substituted calcium manganite-based thermoelectrics. Journal of Alloys and Compounds, 2020, 829, 154466.	5.5	10
29	Design of Multifunctional Titania-Based Photocatalysts by Controlled Redox Reactions. Materials, 2020, 13, 758.	2.9	4
30	Environmentally friendly synthesis methods to obtain the misfit [Ca2CoO3-Î´]0.62[CoO2] thermoelectric material. Materials Letters, 2019, 254, 286-289.	2.6	9
31	Exploring Tantalum as a Potential Dopant to Promote the Thermoelectric Performance of Zinc Oxide. Materials, 2019, 12, 2057.	2.9	9
32	Electrochemical reduction of hematite-based ceramics in alkaline medium: Challenges in electrode design. Electrochimica Acta, 2019, 327, 135060.	5.2	12
33	Iron oxidation state effect on the Mg-Al- Si-O glassy system. Ceramics International, 2019, 45, 21379-21384.	4.8	5
34	Growth rate effects on the thermoelectric performance of CaMnO3-based ceramics. Journal of the European Ceramic Society, 2019, 39, 4184-4188.	5.7	37
35	Significant enhancement of the thermoelectric performance in Ca3Co4O9 thermoelectric materials through combined strontium substitution and hot-pressing process. Journal of the European Ceramic Society, 2019, 39, 1186-1192.	5.7	46
36	Synergistic effects of zirconium- and aluminum co-doping on the thermoelectric performance of zinc oxide. Journal of the European Ceramic Society, 2019, 39, 1222-1229.	5.7	25

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37	Highly-porous mayenite-based ceramics by combined suspension emulsification and reactive sintering. Materials Letters, 2019, 237, 41-44.	2.6	5
38	Improvement of thermoelectric properties of Ca0.9Gd0.1MnO3 by powder engineering through K2CO3 additions. Journal of Materials Science, 2019, 54, 3252-3261.	3.7	4
39	Unusual redox behaviour of the magnetite/hematite coreâ€“shell structures processed by the laser floating zone method. Dalton Transactions, 2018, 47, 5646-5651.	3.3	10
40	New environmentally friendly Ba-Fe-O thermoelectric material by flexible laser floating zone processing. Scripta Materialia, 2018, 145, 54-57.	5.2	7
41	A squeeze on the perovskite structure improves the thermoelectric performance of Europium Calcium Titanates. Materials Today Physics, 2018, 7, 96-105.	6.0	15
42	Solid solution limits and electrical properties of scheelite SryLa1-yNb1-xVxO4-Î´ materials for x = 0.25 and 0.30 as potential proton conducting ceramic electrolytes. International Journal of Hydrogen Energy, 2018, 43, 18682-18690.	7.1	5
43	Design of alumina monoliths by emulsion-gel casting: Understanding the monolith structure from a rheological approach. Materials and Design, 2018, 157, 119-129.	7.0	15
44	Processing of highly-porous cellular iron oxide-based ceramics by emulsification of ceramic suspensions. Ceramics International, 2018, 44, 20354-20360.	4.8	7
45	A self-forming nanocomposite concept for ZnO-based thermoelectrics. Journal of Materials Chemistry A, 2018, 6, 13386-13396.	10.3	21
46	Defects Engineering for Performing SrTiO3-Based Thermoelectric Thin Films: Principles and Selected Approaches. , 2018, , 91-120.		1
47	Structural and redox effects in iron-doped magnesium aluminosilicates. Journal of Crystal Growth, 2017, 457, 19-23.	1.5	3
48	Designing strontium titanate-based thermoelectrics: insight into defect chemistry mechanisms. Journal of Materials Chemistry A, 2017, 5, 3909-3922.	10.3	81
49	Design of NiAl2O4 cellular monoliths for catalytic applications. Materials and Design, 2017, 117, 332-337.	7.0	12
50	Tailoring the structure and thermoelectric properties of BaTiO₃via Eu²⁺ substitution. Physical Chemistry Chemical Physics, 2017, 19, 13469-13480.	2.8	28
51	Exploring the Thermoelectric Performance of BaGd₂NiO₅ Haldane Gap Materials. Inorganic Chemistry, 2017, 56, 2354-2362.	4.0	6
52	Flexible design of cellular Al2TiO5 and Al2TiO5-Al2O3 composite monoliths by reactive firing. Materials and Design, 2017, 131, 92-101.	7.0	22
53	Designed porous microstructures for electrochemical reduction of bulk hematite ceramics. Materials and Design, 2017, 122, 307-314.	7.0	21
54	Exploring the effects of silica and zirconia additives on electrical and redox properties of ferrospinels. Journal of the European Ceramic Society, 2017, 37, 2621-2628.	5.7	2

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55	Dehydrogenation Properties of Magnesium Hydride Loaded with Fe, Feâˆ’C, and Feâˆ’Mg Additives. ChemPhysChem, 2017, 18, 287-291.	2.1	16
56	Conductivity recovery by redox cycling of yttrium doped barium zirconate proton conductors and exsolution of Ni-based sintering additives. Journal of Power Sources, 2017, 339, 93-102.	7.8	30
57	Processing Effects on Properties of (Fe,Mg,Al)₃O₄ Spinels as Potential Consumable Anodes for Pyroelectrolysis. Journal of the American Ceramic Society, 2016, 99, 1889-1893.	3.8	6
58	A new concept of ceramic consumable anode for iron pyroelectrolysis in magnesium aluminosilicate melts. Ceramics International, 2016, 42, 11070-11076.	4.8	9
59	Hybrid microwave processing of Ca 3 Co 4 O 9 thermoelectrics. Ceramics International, 2016, 42, 9482-9487.	4.8	22
60	Reduction of magnetite to metallic iron in strong alkaline medium. Electrochimica Acta, 2016, 193, 284-292.	5.2	35
61	Tailoring Ca3Co4O9 microstructure and performances using a transient liquid phase sintering additive. Journal of the European Ceramic Society, 2016, 36, 1025-1032.	5.7	38
62	Comparative study of fluorite-type ceria-based Ce1âˆ’x Ln x O2âˆ’Î´ (LnÂ=ÂTb, Gd, and Pr) mixed ionic electronic conductors densified at low temperatures. Journal of Materials Science, 2016, 51, 10293-10300.	3.7	5
63	Cellular MgAl2O4 spinels prepared by reactive sintering of emulsified suspensions. Materials Letters, 2016, 164, 190-193.	2.6	12
64	Guidelines to design multicomponent ferrospinels for high-temperature applications. RSC Advances, 2016, 6, 32540-32548.	3.6	6
65	Formation of Mg_xNb_yO_{x+y} through the Mechanochemical Reaction of MgH₂ and Nb₂O₅, and Its Effect on the Hydrogenâ€Storage Behavior of MgH₂. ChemPhysChem, 2016, 17, 178-183.	2.1	28
66	Self-functionalization of cellular alumina monoliths in hydrothermal conditions. Journal of the European Ceramic Society, 2016, 36, 1053-1058.	5.7	3
67	Iron incorporation into magnesium aluminosilicate glass network under fast laser floating zone processing. Ceramics International, 2016, 42, 2693-2698.	4.8	11
68	Multiferroic interfaces in bismuth ferrite composite fibers grown by laser floating zone technique. Materials and Design, 2016, 90, 829-833.	7.0	6
69	High thermoelectric performance in Bi2-xPbxBa2Co2Oy promoted by directional growth and annealing. Journal of the European Ceramic Society, 2016, 36, 67-74.	5.7	26
70	Fabrication and electrochemical performance of a stable, anode supported thin BaCe0.4Zr0.4Y0.2O3-Î´ electrolyte Protonic Ceramic Fuel Cell. Journal of Power Sources, 2015, 278, 582-589.	7.8	73
71	Design of SrTiO₃-Based Thermoelectrics by Tungsten Substitution. Journal of Physical Chemistry C, 2015, 119, 4466-4478.	3.1	35
72	High Thermoelectric Performances in Co-oxides Processed by a Laser Floating Zone Technique. Materials Today: Proceedings, 2015, 2, 654-660.	1.8	4

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73	Boosting Thermoelectric Performance by Controlled Defect Chemistry Engineering in Ta-Substituted Strontium Titanate. Chemistry of Materials, 2015, 27, 4995-5006.	6.7	67
74	Use of laser technology to produce high thermoelectric performances in Bi2Sr2Co1.8Ox. Materials & Design, 2015, 75, 143-148.	5.1	29
75	Hydrothermal synthesis of boehmite in cellular alumina monoliths for catalytic and separation applications. Journal of the European Ceramic Society, 2015, 35, 3119-3125.	5.7	19
76	Prospects and challenges of iron pyroelectrolysis in magnesium aluminosilicate melts near minimum liquidus temperature. Physical Chemistry Chemical Physics, 2015, 17, 9313-9325.	2.8	11
77	Ionic conductivity of directionally solidified zirconiaâ€“mullite eutectics. Solid State Ionics, 2014, 256, 45-51.	2.7	5
78	Towards a high thermoelectric performance in rare-earth substituted SrTiO₃: effects provided by strongly-reducing sintering conditions. Physical Chemistry Chemical Physics, 2014, 16, 26946-26954.	2.8	96
79	Effect of A-Site Cation Deficiency on the Thermoelectric Performance of Donor-Substituted Strontium Titanate. Journal of Physical Chemistry C, 2014, 118, 4596-4606.	3.1	83
80	Effects of transition metal additives on redox stability and high-temperature electrical conductivity of (Fe,Mg)3O4 spinels. Journal of the European Ceramic Society, 2014, 34, 2339-2350.	5.7	12
81	Crystallization of iron-containing Siâ€“Alâ€“Mgâ€“O glasses under laser floating zone conditions. Journal of Alloys and Compounds, 2014, 611, 57-64.	5.5	12
82	Redox stability and high-temperature electrical conductivity of magnesium- and aluminium-substituted magnetite. Journal of the European Ceramic Society, 2013, 33, 2751-2760.	5.7	12
83	Redox stability and electrical conductivity of Fe2.3Mg0.7O4Â±Î´ spinel prepared by mechanochemical activation. Journal of the European Ceramic Society, 2013, 33, 1307-1315.	5.7	6
84	Magnetite/hematite core/shell fibres grown by laser floating zone method. Applied Surface Science, 2013, 278, 203-206.	6.1	13
85	Impact of sulphur contamination on the oxygen transport mechanism through Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´: Relevant issues in the development of capillary and hollow fibre membrane geometry.. Journal of Membrane Science, 2013, 428, 123-130.	8.2	17
86	Enhancement of thermoelectric performance in strontium titanate by praseodymium substitution. Journal of Applied Physics, 2013, 113, .	2.5	58
87	Preparation of high-performance Ca3Co4O9 thermoelectric ceramics produced by a new two-step method. Journal of the European Ceramic Society, 2013, 33, 1747-1754.	5.7	73
88	Synthesis of Sr0.9K0.1FeO3â^'Î´ electrocatalysts by mechanical activation. Journal of Solid State Chemistry, 2013, 198, 169-175.	2.9	5
89	Mixed Conducting Ceramic Capillary Membranes for Catalytic Membrane Reactors: Performance of Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-Î´} Capillaries. Advanced Materials Research, 2012, 560-561, 853-859.	0.3	0
90	Fabrication of perovskite capillary membranes for high temperature gas separation. Catalysis Today, 2012, 193, 172-178.	4.4	17

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91	Lithium niobate bulk crystallization promoted by CO2 laser radiation. Applied Surface Science, 2012, 258, 9457-9460.	6.1	10
92	New method to improve the grain alignment and performance of thermoelectric ceramics. Materials Letters, 2012, 83, 144-147.	2.6	53
93	High-temperature conductivity, stability and redox properties of Fe3âˆ’xAlxO4 spinel-type materials. Journal of the European Ceramic Society, 2012, 32, 3255-3263.	5.7	14
94	Electrical Properties and Dimensional Stability of Ceâ€Doped SrTiO_{3âˆ’Î´} for Solid Oxide Fuel Cell Applications. Journal of the American Ceramic Society, 2011, 94, 2993-3000.	3.8	31
95	Simulation of a mixed-conducting membrane-based gas turbine power plant for CO2 capture: system level analysis of operation stability and individual process unit degradation. Journal of Solid State Electrochemistry, 2011, 15, 329-347.	2.5	7
96	Processing and oxygen permeation studies of asymmetric multilayer Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’ membranes. Journal of Membrane Science, 2011, 380, 68-80.	8.2	43
97	Stability, oxygen permeability and chemical expansion of Sr(Fe,Al)O3âˆ’Î´- and Sr(Co,Fe)O3âˆ’Î´-based membranes. Solid State Ionics, 2011, 192, 259-268.	2.7	21
98	High-temperature electrical properties of magnesiowustite Mg1âˆ’xFexO and spinel Fe3âˆ’xâˆ’yMgxCryO4 ceramics. Solid State Ionics, 2011, 192, 252-258.	2.7	15
99	Oxygen exchange-limited transport and surface activation of Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’Î´ capillary membranes. Journal of Membrane Science, 2011, 368, 223-232.	8.2	31
100	Development, performance and stability of sulfur-free, macrovoid-free BSCF capillaries for high temperature oxygen separation from air. Journal of Membrane Science, 2011, 372, 239-248.	8.2	41
101	Guidelines for improving resistance to CO2 of materials for solid state electrochemical systems. Solid State Ionics, 2011, 192, 16-20.	2.7	16
102	Oxygen deficiency, vacancy clustering and ionic transport in (La,Sr)CoO3âˆ’Î´. Solid State Ionics, 2011, 192, 42-48.	2.7	29
103	Oxygen permeability and stability of asymmetric multilayer Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’Î´ ceramic membranes. Solid State Ionics, 2011, 192, 677-681.	2.7	29
104	Fabrication and oxygen permeability of gastight, macrovoid-free Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’Î´ capillaries for high temperature gas separation. Journal of Membrane Science, 2010, 359, 86-92.	8.2	39
105	Basic Aspects in Inorganic Membrane Preparation. , 2010, , 217-252.		24
106	Oxygen transport in La2NiO4+: Assessment of surface limitations and multilayer membrane architectures. Solid State Ionics, 2009, 180, 812-816.	2.7	58
107	Mixed conductivity, stability and electrochemical behavior of perovskite-type (Sr0.7Ce0.3)1âˆ’xMn1âˆ’yCryO3âˆ’Î´. Solid State Ionics, 2008, 179, 2181-2191.	2.7	7
108	Heterogeneous ceramics formed by grain boundary engineering. Ionics, 2008, 14, 349-356.	2.4	10

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109	High-temperature transport properties, thermal expansion and cathodic performance of Ni-substituted LaSr2Mn2O7âˆ’Î´. Journal of Solid State Chemistry, 2008, 181, 3024-3032.	2.9	15
110	Processing and oxygen permeability of asymmetric ferrite-based ceramic membranes. Solid State Ionics, 2008, 179, 61-65.	2.7	12
111	Oxygen Nonstoichiometry, Mixed Conductivity, and MÃ¶ssbauer Spectra of Ln_{0.5}A_{0.5}FeO_{3âˆ’Î´} (Ln = Laâˆ’Sm, A = Sr, Ba): Effects of Cation Size. Chemistry of Materials, 2008, 20, 6457-6467.	6.7	98
112	Efecto de eliminaciÃ³n de sÃlice en electrolitos sÃ³lidos basados en Ã³xido de cerio. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2008, 47, 201-206.	1.9	15
113	Chemically Induced Expansion of La2NiO4+Î´-Based Materials. Chemistry of Materials, 2007, 19, 2027-2033.	6.7	133
114	Oxygen transport and stability of asymmetric SrFe(Al)O3âˆ’Î´-SrAl2O4 composite membranes. Journal of Membrane Science, 2007, 301, 238-244.	8.2	17
115	Oxygen nonstoichiometry, MÃ¶ssbauer spectra and mixed conductivity of Pr0.5Sr0.5FeO3âˆ’Î´. Journal of Physics and Chemistry of Solids, 2007, 68, 355-366.	4.0	26
116	Phase relationships and transport in Ti-, Ce- and Zr-substituted lanthanum silicate systems. Journal of the European Ceramic Society, 2007, 27, 2445-2454.	5.7	30
117	Mixed conductivity, thermal expansion and defect chemistry of A-site deficient LaNi0.5Ti0.5O3âˆ’Î´. Journal of the European Ceramic Society, 2007, 27, 4279-4282.	5.7	4
118	Stability and oxygen transport properties of Pr2NiO4+Î´ ceramics. Journal of the European Ceramic Society, 2007, 27, 4269-4272.	5.7	66
119	Redox behavior and transport properties of La0.5âˆ’2xCexSr0.5+xFeO3âˆ’Î´ and La0.5âˆ’2ySr0.5+2yFe1âˆ’yNbyO3âˆ’Î´ perovskites. Solid State Sciences, 2007, 9, 32-42.	3.2	4
120	Oxygen permeability, stability and electrochemical behavior of % MathType!Translator!2!1!AMS LaTeX.tdl!TeX -- AMS-LaTeX! % MathType!MTEF!2!1!+- % feaaeaart1ev0aaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbbjxAHX % garmWu51MyVXgatuuDJXwAK1uy0HwmaeHbfv3ySLgzG0uy0Hgip5wz % aebbnrfifHhDYfgasaacH8qrps0lbbf9q8WrFfeuY-Hhbbf9v8qqaq % Fr0xc9pk0xbba9q8WqFfea0-yrOrYxir-Jbba9q8aq0-yq-He9q8qq % Q8frFve9Fve9Ff0dmeaabaqaciGacaGaaeq	2.0	74
121	Oxygen Evolution on Perovskite-Type Cobaltite Anodes: An Assessment of Materials Science-Related Aspects. Materials Science Forum, 2006, 514-516, 377-381.	0.3	1
122	Processing and characterization of La0.5Sr0.5FeO3-supported Sr1âˆ’xFe(Al)O3â€“SrAl2O4 composite membranes. Journal of Membrane Science, 2006, 278, 162-172.	8.2	33
123	Mixed conductivity, stability and thermomechanical properties of Ni-doped La(Ga,Mg)O3âˆ’Î´. Solid State Ionics, 2006, 177, 549-558.	2.7	16
124	Oxygen ion conductors for fuel cells and membranes: selected developments. Solid State Ionics, 2006, 177, 1697-1703.	2.7	34
125	Methane oxidation over nanocrystalline Ce0.45Zr0.45La0.10O2-Î´/Pt and Ce0.9Sm0.1O2-Î´/Pt anodes. Catalysis Letters, 2006, 112, 19-26.	2.6	5
126	Oxygen permeability of mixed-conducting composite membranes: effects of phase interaction. Journal of Solid State Electrochemistry, 2006, 10, 28-40.	2.5	52

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127	Oxygen transport and thermomechanical properties of SrFe(Al)O3-Î´ â€“SrAl2O4 composites: microstructural effects. Journal of Solid State Electrochemistry, 2006, 10, 663-673.	2.5	10
128	Silica-scavenging effect in zirconia electrolytes: assessment of lanthanum silicate formation. Ionics, 2006, 12, 179-184.	2.4	7
129	Defect formation and transport in La0.95Ni0.5Ti0.5O3âˆ’Î´. Solid State Sciences, 2006, 8, 1302-1311.	3.2	10
130	Mixed Conductivity of Ce- and Nb-Substituted (La, Sr)FeO_{3-Î´}. Materials Science Forum, 2006, 514-516, 402-406.	0.3	0
131	Glass-Ceramic Sealants for SOFC-Based Systems. , 2005, , 231-238.		0
132	Phase interaction and oxygen transport in oxide composite materials. Advances in Applied Ceramics, 2004, 103, 211-218.	0.4	8
133	Materiales conductores mixtos para la OxidaciÃ³n Parcial de Hidrocarburos. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 640-643.	1.9	3
134	Permeabilidad de oxÃgeno en membranas cerÃ¡micas de La(Sr,Pr)Ga(Mg)O_{3-ÃŽÂ´} con metales de transiciÃ³n. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 769-774.	1.9	0
135	Structure and electronic conductivity of Bi2âˆ’xLaxV0.9Cu0.1O5.5âˆ’Î´. Materials Chemistry and Physics, 2003, 77, 552-558.	4.0	24
136	Oxygen-ionic conductivity of perovskite-type La1âˆ’xSrxGa1âˆ’yMgyM0.20O3âˆ’Î´ (M=Fe, Co, Ni). Materials Chemistry and Physics, 2003, 82, 684-690.	4.0	27
137	Oxygen transport in Ce0.8Gd0.2O2âˆ’Î´-based composite membranes. Solid State Ionics, 2003, 160, 247-258.	2.7	174
138	Oxygen permeability of LaGaO3-based ceramic membranes. Journal of Membrane Science, 2003, 221, 69-77.	8.2	29
139	P-Type electronic conduction in CeO2- and LaGaO3-based solid electrolytes. Ionics, 2002, 8, 215-222.	2.4	3
140	Mixed conductivity and stability of A-site-deficient Sr(Fe,Ti)O 3-Î´ perovskites. Journal of Solid State Electrochemistry, 2002, 7, 30-36.	2.5	79
141	Surface modification of La0.3Sr0.7CoO3âˆ’Î´ ceramic membranes. Journal of Membrane Science, 2002, 195, 277-287.	8.2	82
142	Oxygen nonstoichiometry of Bi2V0.9Cu0.1O5.5âˆ’Î´ solid electrolyte by coulometric titration technique. Electrochimica Acta, 2002, 47, 3957-3964.	5.2	12
143	The stability and mixed conductivity in La and Fe doped SrTiO3 in the search for potential SOFC anode materials. Journal of the European Ceramic Society, 2001, 21, 1831-1835.	5.7	111
144	Oxygen permeability and Faradaic efficiency of Ce0.8Gd0.2O2â€“Î´â€“La0.7Sr0.3MnO3â€“Î´ composites. Journal of the European Ceramic Society, 2001, 21, 1763-1767.	5.7	61

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145	Processing, microstructure and properties of LaCoO3âˆ’Î´ ceramics. Journal of the European Ceramic Society, 2001, 21, 2301-2309.	5.7	64
146	Transport Properties and Thermal Expansion of Sr0.97Ti1âˆ’xFexO3âˆ’Î´ (x=0.2â€“0.8). Journal of Solid State Chemistry, 2001, 156, 437-444.	2.9	74
147	Ceria-based materials for solid oxide fuel cells. Journal of Materials Science, 2001, 36, 1105-1117.	3.7	399
148	Ionic transport in oxygen-hyperstoichiometric phases with K2NiF4-type structure. Solid State Ionics, 2001, 143, 337-353.	2.7	224
149	Faradaic efficiency and oxygen permeability of Sr0.97Ti0.60Fe0.40O3Ã¢ÂˆÂ’ÃŽÂ´ perovskite. Solid State Ionics, 2000, 128, 117-130.	2.7	43
150	Oxygen ionic conductivity of Ti-containing strontium ferrite. Solid State Ionics, 2000, 133, 57-65.	2.7	60
151	Mixed electronic and ionic conductivity of LaCo(M)O3 (M=Ga, Cr, Fe or Ni)IV. Effect of preparation method on oxygen transport in LaCoO3âˆ’Î´. Solid State Ionics, 2000, 138, 135-148.	2.7	74
152	EPR spectra and electrical conductivity of perovskite-like BaBi1âˆ’xLnxO3âˆ’Î´ (Ln=La,Pr). Materials Chemistry and Physics, 2000, 63, 240-250.	4.0	8
153	Oxygen Permeability of Ce[sub 0.8]Gd[sub 0.2]O[sub 2âˆ’Î´]-La[sub 0.7]Sr[sub 0.3]MnO[sub 3âˆ’Î´] Composite Membranes. Journal of the Electrochemical Society, 2000, 147, 2814.	2.9	151
154	Surface-limited ionic transport in perovskites Sr0.97(Ti,Fe,Mg)O3 âˆ’ Î´. Journal of Materials Chemistry, 2000, 10, 1161-1169.	6.7	50
155	Perovskite-type oxides for high-temperature oxygen separation membranes. Journal of Membrane Science, 1999, 163, 307-317.	8.2	301
156	Testing tubular solid oxide fuel cells in nonsteady-state conditions. Journal of Power Sources, 1999, 79, 242-249.	7.8	20
157	Oxygen permeability of La2Cu(Co)O4+ solid solutions. Solid State Ionics, 1999, 120, 281-288.	2.7	33
158	Ionic transport in SrCo0.85Ti0.15o3âˆ’Î´ ceramics at high oxygen pressures. Materials Research Bulletin, 1999, 34, 1921-1928.	5.2	11
159	Oxygen ion conductivity of hexagonal La2W1.25O6.75. Materials Letters, 1999, 38, 300-304.	2.6	22
160	Oxygen permeability and thermal expansion of SrCo (Ti)O3âˆ’Î´ perovskites. Materials Chemistry and Physics, 1998, 53, 6-12.	4.0	29
161	Oxygen permeation through Sr(Ln)CoO3âˆ’Î´ (Ln=La,Nd,Sm,Gd) ceramic membranes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 52, 105-116.	3.5	87
162	Mixed electronic and ionic conductivity of LaCo(M)O3 (M=Ga, Cr, Fe or Ni) II. Oxygen permeation through Cr- and Ni-substituted LaCoO3. Solid State Ionics, 1998, 110, 53-60.	2.7	57

#	Article	IF	Citations
163	Ceramic Microstructure and Oxygen Permeability of SrCoâ€‰(â€‰Feâ€‰,â€‰â€‰Mâ€‰â€‰)â€‰â€‰Oâ€‰3â€‰â^'â€‰Î´ â€ Membranes. Journal of the Electrochemical Society, 1998, 145, 1363-1373.	2.9	111
164	Oxygen permeability of perovskites in the system SrCoO 3 â^' Î´ -SrTiO 3. Solid State Ionics, 1997, 96, 141-151.	2.7	68
165	Oxygen separation using Bi2O3-based solid electrolytes. Solid State Ionics, 1996, 93, 95-103.	2.7	15
166	Electrochemical deposition of zero-valent iron from alkaline ceramic suspensions of Fe2-xAlxO3 for iron valorisation. Journal of the Electrochemical Society, 0, , .	2.9	4
167	Exploring the High-Temperature Thermoelectric Performance of La-Substituted Ca3Co4O9 Bulk Ceramics. , 0, , .		0