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	Ceria-based materials for solid oxide fuel cells. Journal of Materials Science, 2001, 36, 1105-1117.	3.7	399
2	Perovskite-type oxides for high-temperature oxygen separation membranes. Journal of Membrane Science, 1999, 163, 307-317.	8.2	301
3	Ionic transport in oxygen-hyperstoichiometric phases with K2NiF4-type structure. Solid State Ionics, 2001, 143, 337-353.	2.7	224
4	Oxygen transport in Ce0.8Gd0.2O2âˆ’Î´-based composite membranes. Solid State Ionics, 2003, 160, 247-258.	2.7	174
5	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
6	Chemically Induced Expansion of La2NiO4+Î´-Based Materials. Chemistry of Materials, 2007, 19, 2027-2033.	6.7	133
7	Ceramic Microstructure and Oxygen Permeability of SrCoâ€‰(â€‰Feâ€‰,â€‰â€‰Mâ€‰â€‰)â€‰â€‰Oâ€‰3â€‰âˆ’â€‰Î´ â€ Membranes. Journal of the Electrochemical Society, 1998, 145, 1363-1373.	2.9	111
8	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
9	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
10	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
11	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
12	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
13	Surface modification of La0.3Sr0.7CoO3âˆ’Î´ ceramic membranes. Journal of Membrane Science, 2002, 195, 277-287.	8.2	82
14	Designing strontium titanate-based thermoelectrics: insight into defect chemistry mechanisms. Journal of Materials Chemistry A, 2017, 5, 3909-3922.	10.3	81
15	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
16	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
17	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
18	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-yr0RYxir-Jbba9q8aq0-yq-He9q8qq % Q8frFve9Fve9Ff0dmeaabaqaciGacaGaaeq	2.0	74

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19	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
20	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
21	Oxygen permeability of perovskites in the system SrCoO 3 âˆ’ Î´ -SrTiO 3. Solid State Ionics, 1997, 96, 141-151.	2.7	68
22	Boosting Thermoelectric Performance by Controlled Defect Chemistry Engineering in Ta-Substituted Strontium Titanate. Chemistry of Materials, 2015, 27, 4995-5006.	6.7	67
23	Stability and oxygen transport properties of Pr2NiO4+Î´ ceramics. Journal of the European Ceramic Society, 2007, 27, 4269-4272.	5.7	66
24	Processing, microstructure and properties of LaCoO3âˆ’Î´ ceramics. Journal of the European Ceramic Society, 2001, 21, 2301-2309.	5.7	64
25	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
26	Oxygen ionic conductivity of Ti-containing strontium ferrite. Solid State Ionics, 2000, 133, 57-65.	2.7	60
27	Oxygen transport in La2NiO4+: Assessment of surface limitations and multilayer membrane architectures. Solid State Ionics, 2009, 180, 812-816.	2.7	58
28	Enhancement of thermoelectric performance in strontium titanate by praseodymium substitution. Journal of Applied Physics, 2013, 113, .	2.5	58
29	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
30	New method to improve the grain alignment and performance of thermoelectric ceramics. Materials Letters, 2012, 83, 144-147.	2.6	53
31	Oxygen permeability of mixed-conducting composite membranes: effects of phase interaction. Journal of Solid State Electrochemistry, 2006, 10, 28-40.	2.5	52
32	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
33	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
34	Faradaic efficiency and oxygen permeability of Sr0.97Ti0.60Fe0.40O3Ã¢ÂˆÂ’ÃŽÂ´ perovskite. Solid State Ionics, 2000, 128, 117-130.	2.7	43
35	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
36	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

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37	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
38	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
39	Growth rate effects on the thermoelectric performance of CaMnO3-based ceramics. Journal of the European Ceramic Society, 2019, 39, 4184-4188.	5.7	37
40	Design of SrTiO₃-Based Thermoelectrics by Tungsten Substitution. Journal of Physical Chemistry C, 2015, 119, 4466-4478.	3.1	35
41	Reduction of magnetite to metallic iron in strong alkaline medium. Electrochimica Acta, 2016, 193, 284-292.	5.2	35
42	Oxygen ion conductors for fuel cells and membranes: selected developments. Solid State Ionics, 2006, 177, 1697-1703.	2.7	34
43	Oxygen permeability of La2Cu(Co)O4+ solid solutions. Solid State Ionics, 1999, 120, 281-288.	2.7	33
44	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
45	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
46	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
47	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
48	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
49	Oxygen permeability and thermal expansion of SrCo (Ti)O3âˆ'Î´ perovskites. Materials Chemistry and Physics, 1998, 53, 6-12.	4.0	29
50	Oxygen permeability of LaGaO3-based ceramic membranes. Journal of Membrane Science, 2003, 221, 69-77.	8.2	29
51	Oxygen deficiency, vacancy clustering and ionic transport in (La,Sr)CoO3âˆ'Î´. Solid State Ionics, 2011, 192, 42-48.	2.7	29
52	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
53	Use of laser technology to produce high thermoelectric performances in Bi2Sr2Co1.8Ox. Materials & Design, 2015, 75, 143-148.	5.1	29
54	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

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55	Tailoring the structure and thermoelectric properties of BaTiO₃via Eu²⁺ substitution. Physical Chemistry Chemical Physics, 2017, 19, 13469-13480.	2.8	28
56	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
57	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
58	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
59	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
60	Structure and electronic conductivity of Bi2âˆ’xLaxV0.9Cu0.1O5.5âˆ’Î´. Materials Chemistry and Physics, 2003, 77, 552-558.	4.0	24
61	Basic Aspects in Inorganic Membrane Preparation. , 2010, , 217-252.		24
62	Oxygen ion conductivity of hexagonal La2W1.25O6.75. Materials Letters, 1999, 38, 300-304.	2.6	22
63	Hybrid microwave processing of Ca 3 Co 4 O 9 thermoelectrics. Ceramics International, 2016, 42, 9482-9487.	4.8	22
64	Flexible design of cellular Al2TiO5 and Al2TiO5-Al2O3 composite monoliths by reactive firing. Materials and Design, 2017, 131, 92-101.	7.0	22
65	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
66	Designed porous microstructures for electrochemical reduction of bulk hematite ceramics. Materials and Design, 2017, 122, 307-314.	7.0	21
67	A self-forming nanocomposite concept for ZnO-based thermoelectrics. Journal of Materials Chemistry A, 2018, 6, 13386-13396.	10.3	21
68	Testing tubular solid oxide fuel cells in nonsteady-state conditions. Journal of Power Sources, 1999, 79, 242-249.	7.8	20
69	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
70	Redox engineering of strontium titanate-based thermoelectrics. Journal of Materials Chemistry A, 2020, 8, 7317-7330.	10.3	18
71	Oxygen transport and stability of asymmetric SrFe(Al)O3âˆ’Î´-SrAl2O4 composite membranes. Journal of Membrane Science, 2007, 301, 238-244.	8.2	17
72	Fabrication of perovskite capillary membranes for high temperature gas separation. Catalysis Today, 2012, 193, 172-178.	4.4	17

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73	Impact of sulphur contamination on the oxygen transport mechanism through Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’Î´: Relevant issues in the development of capillary and hollow fibre membrane geometry.. Journal of Membrane Science, 2013, 428, 123-130.	8.2	17
74	Mixed conductivity, stability and thermomechanical properties of Ni-doped La(Ga,Mg)O3âˆ’Î´. Solid State Ionics, 2006, 177, 549-558.	2.7	16
75	Guidelines for improving resistance to CO2 of materials for solid state electrochemical systems. Solid State Ionics, 2011, 192, 16-20.	2.7	16
76	Dehydrogenation Properties of Magnesium Hydride Loaded with Fe, Feâˆ'C, and Feâˆ'Mg Additives. ChemPhysChem, 2017, 18, 287-291.	2.1	16
77	Oxygen separation using Bi2O3-based solid electrolytes. Solid State Ionics, 1996, 93, 95-103.	2.7	15
78	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
79	High-temperature electrical properties of magnesiowustite Mg1âˆ'xFexO and spinel Fe3âˆ'xâˆ'yMgxCryO4 ceramics. Solid State Ionics, 2011, 192, 252-258.	2.7	15
80	A squeeze on the perovskite structure improves the thermoelectric performance of Europium Calcium Titanates. Materials Today Physics, 2018, 7, 96-105.	6.0	15
81	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
82	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
83	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
84	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
85	Magnetite/hematite core/shell fibres grown by laser floating zone method. Applied Surface Science, 2013, 278, 203-206.	6.1	13
86	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
87	Oxygen nonstoichiometry of Bi2V0.9Cu0.1O5.5âˆ’Î´ solid electrolyte by coulometric titration technique. Electrochimica Acta, 2002, 47, 3957-3964.	5.2	12
88	Processing and oxygen permeability of asymmetric ferrite-based ceramic membranes. Solid State Ionics, 2008, 179, 61-65.	2.7	12
89	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
90	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

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91	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
92	Cellular MgAl2O4 spinels prepared by reactive sintering of emulsified suspensions. Materials Letters, 2016, 164, 190-193.	2.6	12
93	Design of NiAl2O4 cellular monoliths for catalytic applications. Materials and Design, 2017, 117, 332-337.	7.0	12
94	Electrochemical reduction of hematite-based ceramics in alkaline medium: Challenges in electrode design. Electrochimica Acta, 2019, 327, 135060.	5.2	12
95	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
96	Ionic transport in SrCo0.85Ti0.15o3âˆ’Î´ ceramics at high oxygen pressures. Materials Research Bulletin, 1999, 34, 1921-1928.	5.2	11
97	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
98	Iron incorporation into magnesium aluminosilicate glass network under fast laser floating zone processing. Ceramics International, 2016, 42, 2693-2698.	4.8	11
99	Redox-Promoted Tailoring of the High-Temperature Electrical Performance in Ca3Co4O9 Thermoelectric Materials by Metallic Cobalt Addition. Materials, 2020, 13, 1060.	2.9	11
100	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
101	Defect formation and transport in La0.95Ni0.5Ti0.5O3âˆ’Î´. Solid State Sciences, 2006, 8, 1302-1311.	3.2	10
102	Heterogeneous ceramics formed by grain boundary engineering. Ionics, 2008, 14, 349-356.	2.4	10
103	Lithium niobate bulk crystallization promoted by CO2 laser radiation. Applied Surface Science, 2012, 258, 9457-9460.	6.1	10
104	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
105	Direct processing of cellular ceramics from a single red mud precursor. Ceramics International, 2020, 46, 16700-16707.	4.8	10
106	Laser processing as a tool for designing donor-substituted calcium manganite-based thermoelectrics. Journal of Alloys and Compounds, 2020, 829, 154466.	5.5	10
107	A new concept of ceramic consumable anode for iron pyroelectrolysis in magnesium aluminosilicate melts. Ceramics International, 2016, 42, 11070-11076.	4.8	9
108	Environmentally friendly synthesis methods to obtain the misfit [Ca2CoO3-Î´]0.62[CoO2] thermoelectric material. Materials Letters, 2019, 254, 286-289.	2.6	9

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109	Exploring Tantalum as a Potential Dopant to Promote the Thermoelectric Performance of Zinc Oxide. Materials, 2019, 12, 2057.	2.9	9
110	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
111	EPR spectra and electrical conductivity of perovskite-like BaBi1â^'xLnxO3â^'Î´ (Ln=La,Pr). Materials Chemistry and Physics, 2000, 63, 240-250.	4.0	8
112	Phase interaction and oxygen transport in oxide composite materials. Advances in Applied Ceramics, 2004, 103, 211-218.	0.4	8
113	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
114	Silica-scavenging effect in zirconia electrolytes: assessment of lanthanum silicate formation. Ionics, 2006, 12, 179-184.	2.4	7
115	Mixed conductivity, stability and electrochemical behavior of perovskite-type (Sr0.7Ce0.3)1â^'xMn1â^'yCryO3â^'Î´. Solid State Ionics, 2008, 179, 2181-2191.	2.7	7
116	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
117	New environmentally friendly Ba-Fe-O thermoelectric material by flexible laser floating zone processing. Scripta Materialia, 2018, 145, 54-57.	5.2	7
118	Processing of highly-porous cellular iron oxide-based ceramics by emulsification of ceramic suspensions. Ceramics International, 2018, 44, 20354-20360.	4.8	7
119	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
120	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
121	Guidelines to design multicomponent ferrospinels for high-temperature applications. RSC Advances, 2016, 6, 32540-32548.	3.6	6
122	Multiferroic interfaces in bismuth ferrite composite fibers grown by laser floating zone technique. Materials and Design, 2016, 90, 829-833.	7.0	6
123	Exploring the Thermoelectric Performance of BaGd₂NiO₅ Haldane Gap Materials. Inorganic Chemistry, 2017, 56, 2354-2362.	4.0	6
124	Cellular zirconia ceramics processed by direct emulsification. Journal of the European Ceramic Society, 2020, 40, 2056-2062.	5.7	6
125	On the high-temperature degradation mechanism of ZnO-based thermoelectrics. Journal of the European Ceramic Society, 2021, 41, 1730-1734.	5.7	6
126	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

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127	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
128	Synthesis of Sr0.9K0.1FeO3â^'Î´ electrocatalysts by mechanical activation. Journal of Solid State Chemistry, 2013, 198, 169-175.	2.9	5
129	Ionic conductivity of directionally solidified zirconiaâ€"mullite eutectics. Solid State Ionics, 2014, 256, 45-51.	2.7	5
130	Comparative study of fluorite-type ceria-based Ce1â^'x Ln x O2â^'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
131	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
132	Iron oxidation state effect on the Mg-Al- Si-O glassy system. Ceramics International, 2019, 45, 21379-21384.	4.8	5
133	Highly-porous mayenite-based ceramics by combined suspension emulsification and reactive sintering. Materials Letters, 2019, 237, 41-44.	2.6	5
134	Tubular Thermoelectric Module Based on Oxide Elements Grown by the Laser Floating Zone. ACS Applied Energy Materials, 2021, 4, 5848-5857.	5.1	5
135	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
136	Mixed conductivity, thermal expansion and defect chemistry of A-site deficient LaNi0.5Ti0.5O3â^'Î´. Journal of the European Ceramic Society, 2007, 27, 4279-4282.	5.7	4
137	Redox behavior and transport properties of La0.5â^'2xCexSr0.5+xFeO3â^'Î´ and La0.5â^'2ySr0.5+2yFe1â^'yNbyO3â^'Î´ perovskites. Solid State Sciences, 2007, 9, 32-42.	3.2	4
138	High Thermoelectric Performances in Co-oxides Processed by a Laser Floating Zone Technique. Materials Today: Proceedings, 2015, 2, 654-660.	1.8	4
139	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
140	Thermoelectric modules built using ceramic legs grown by laser floating zone. Ceramics International, 2020, 46, 24318-24325.	4.8	4
141	Design of Multifunctional Titania-Based Photocatalysts by Controlled Redox Reactions. Materials, 2020, 13, 758.	2.9	4
142	Prospects for Electrical Performance Tuning in Ca3Co4O9 Materials by Metallic Fe and Ni Particles Additions. Materials, 2021, 14, 980.	2.9	4
143	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
144	P-Type electronic conduction in CeO2- and LaGaO3-based solid electrolytes. Ionics, 2002, 8, 215-222.	2.4	3

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145	Self-functionalization of cellular alumina monoliths in hydrothermal conditions. Journal of the European Ceramic Society, 2016, 36, 1053-1058.	5.7	3
146	Structural and redox effects in iron-doped magnesium aluminosilicates. Journal of Crystal Growth, 2017, 457, 19-23.	1.5	3
147	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
148	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
149	The effect of temperature and pressure on the spin state of cobalt ions in La1â^’xPrxCoO3 compounds. Low Temperature Physics, 2020, 46, 606-614.	0.6	2
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