

Mikhail Patrakeev

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54
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155
ext. papers

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ext. citations

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#	Paper	IF	Citations
149	Electron/hole and ion transport in $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$. <i>Journal of Solid State Chemistry</i> , 2003 , 172, 219-231	3.3	171
148	Ion/electron transport in strontium ferrites: relationships with structural features and stability. <i>Solid State Sciences</i> , 2004 , 6, 907-913	3.4	142
147	Thermal and chemical induced expansion of $\text{La}_{0.3}\text{Sr}_{0.7}(\text{Fe,Ga})\text{O}_3$ ceramics. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1417-1426	6	131
146	Chemically Induced Expansion of La_2NiO_4 -Based Materials. <i>Chemistry of Materials</i> , 2007 , 19, 2027-2033	3.6	109
145	Structure, ionic conduction, and phase transformations in lithium titanate $\text{Li}_4\text{Ti}_5\text{O}_{12}$. <i>Physics of the Solid State</i> , 2003 , 45, 2183-2188	0.8	103
144	Oxygen Nonstoichiometry, Conductivity, and Seebeck Coefficient of $\text{La}_{0.3}\text{Sr}_{0.7}\text{Fe}_{1-x}\text{Ga}_x\text{O}_{2.65+x}$ Perovskites. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 203-213	3.3	101
143	Oxygen Ionic and Electronic Transport in Apatite-Type Solid Electrolytes. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1236	3.9	89
142	Electrical Properties of the Ferrite SrFeO_y at High Temperatures. <i>Journal of Solid State Chemistry</i> , 2001 , 158, 320-326	3.3	89
141	Transport properties and stability of Ni-containing mixed conductors with perovskite- and K_2NiF_4 -type structure. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 26-37	3.3	88
140	Oxygen Nonstoichiometry, Mixed Conductivity, and Mössbauer Spectra of $\text{Ln}_{0.5}\text{A}_{0.5}\text{FeO}_3$ (Ln = La, Sm, A = Sr, Ba): Effects of Cation Size. <i>Chemistry of Materials</i> , 2008 , 20, 6457-6467	9.6	85
139	High-temperature order-disorder transition and polaronic conductivity in $\text{PrBaCo}_2\text{O}_{5.48}$. <i>Physical Review B</i> , 2006 , 73,	3.3	81
138	Perovskite-like system $(\text{Sr,Lu})(\text{Fe,Ga})\text{O}_3$ structure and ionic transport under oxidizing conditions. <i>Solid State Ionics</i> , 2002 , 150, 229-243	3.3	76
137	Oxygen nonstoichiometry in (M = Cu, Co) under oxidizing conditions. <i>Solid State Sciences</i> , 2005 , 7, 1353-1362	3.6	71
136	p-Type electron transport in $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ at high temperatures. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 921-927	3.3	69
135	Transport properties and thermal expansion of Ti-substituted $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ (x=0.50.7). <i>Solid State Sciences</i> , 2005 , 7, 355-365	3.4	66
134	High-temperature electrical transport in $\text{La}_{0.3}\text{Sr}_{0.7}\text{Fe}_{1-x}\text{Ga}_x\text{O}_3$ (x = 0.0.5). <i>Journal of Materials Chemistry</i> , 2001 , 11, 1201-1208		64
133	Oxygen non-stoichiometry, high-temperature properties, and phase diagram of CaMnO_3 . <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1071-1075	2.6	59

132	Mixed conductivity, oxygen permeability and redox behavior of K_2NiF_4 -type $La_2Ni_{0.9}Fe_{0.1}O_{4+\delta}$ <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1425-1433	3-3	59
131	Applications of coulometric titration for studies of oxygen non-stoichiometry in oxides. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 931-954	2.6	55
130	p-Type electronic conductivity, oxygen permeability and stability of $La_2Ni_{0.9}Co_{0.1}O_{4+\delta}$ <i>Journal of Materials Chemistry</i> , 2003 , 13, 1136-1144		54
129	Oxygen ionic transport in $Sr_{1-x}Al_xO_{3-\delta}$ and $Sr_{1-x}Ca_xFe_{0.5}Al_{0.5}O_{3-\delta}$ ceramics. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 489-499	6	52
128	Structural features, nonstoichiometry and high-temperature transport in $SrFe_{1-x}MoxO_3$ <i>Journal of Solid State Chemistry</i> , 2009 , 182, 799-806	3-3	49
127	Ionic and p-type electronic transport in zircon-type $Ce_{1-x}AxVO_4$ (A = Ca, Sr). <i>Journal of Materials Chemistry</i> , 2002 , 12, 3738-3745		47
126	Oxygen ionic and electronic conductivity of $La_{0.3}Sr_{0.7}Fe(Al)O_3$ perovskites. <i>Solid State Sciences</i> , 2004 , 6, 357-366	3-4	45
125	Phase formation and iron oxidation states in $SrFe(Al)O_3$ perovskites. <i>Materials Letters</i> , 2005 , 59, 1644-1648	3-3	43
124	Oxygen Permeability and Ionic Conductivity of Perovskite-Related $La_{0.3}Sr_{0.7}Fe(Ga)O_3$ <i>Journal of the Electrochemical Society</i> , 2002 , 149, E125	3-9	43
123	Structural stability and electrical transport in $SrFe_{1-x}MoxO_3$ <i>Solid State Ionics</i> , 2008 , 179, 1050-1053	3-3	42
122	Oxygen nonstoichiometry and mixed conductivity of $SrFe_{1-x}O_3$ (M=Al, Ga): Effects of B-site doping. <i>Solid State Sciences</i> , 2006 , 8, 476-487	3-4	41
121	Characterization of mixed-conducting $La_2Ni_{0.9}Co_{0.1}O_{4+\delta}$ membranes for dry methane oxidation. <i>Applied Catalysis A: General</i> , 2004 , 261, 25-35	5-1	39
120	Order-Disorder Enhanced Oxygen Conductivity and Electron Transport in Ruddlesden-Popper Ferrite-Titanate $Sr_3Fe_2-xTi_xO_6+\delta$ <i>Journal of Solid State Chemistry</i> , 2002 , 168, 275-283	3-3	39
119	Transport properties and Mössbauer spectra of Fe-substituted $La_{10-x}(Si,Al)_6O_{26}$ apatites. <i>Materials Research Bulletin</i> , 2004 , 39, 763-773	5-1	36
118	High-temperature ion transport in $La_{1-x}Sr_xFeO_3$ <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 578	2.6	35
117	Oxygen nonstoichiometry and defect chemistry of perovskite-structured $SrFe_{1-x}MoxO_3$ solid solutions. <i>Solid State Ionics</i> , 2016 , 292, 116-121	3-3	34
116	High-temperature electrical conductivity and thermopower in nonstoichiometric $La_{1-x}Sr_xCoO_3$ (x=0.6). <i>Solid State Ionics</i> , 2000 , 130, 325-330	3-3	34
115	Ion and electron conduction in $SrFe_{1-x}Sc_xO_3$ <i>Solid State Ionics</i> , 2006 , 177, 1757-1760	3-3	33

114	Ionic and electronic conductivity of $\text{La}_{0.83}\text{Pr}_x\text{Si}_{4.5}\text{Fe}_{1.5}\text{O}_{26}$ apatites. <i>Solid State Ionics</i> , 2004 , 171, 51-59	3.3	33
113	Disordering and Mixed Conductivity in the Solid Solution $\text{LaSr}_2\text{Fe}_{3-y}\text{Cr}_y\text{O}_8$ <i>Chemistry of Materials</i> , 2004 , 16, 5014-5020	9.6	31
112	Electrical characterization of the intergrowth ferrite $\text{Sr}_4\text{Fe}_6\text{O}_{13}$ <i>Solid State Ionics</i> , 2001 , 139, 325-330	3.3	31
111	Oxygen non-stoichiometry and defect thermodynamics in $\text{La}_2\text{Ni}_{0.9}\text{Fe}_{0.1}\text{O}_4$ <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1443-1455	3.9	30
110	Oxygen nonstoichiometry and high-temperature transport in $\text{SrFe}_{1-x}\text{W}_x\text{O}_3$ <i>Solid State Ionics</i> , 2008 , 179, 99-103	3.3	30
109	Conductivity and carrier traps in $\text{La}_{1-x}\text{Sr}_x\text{Co}_{1-z}\text{Mn}_z\text{O}_3$ ($x=0.3$; $z=0$ and 0.25). <i>Journal of Solid State Chemistry</i> , 2003 , 172, 296-304	3.3	30
108	Oxygen deficiency, vacancy clustering and ionic transport in $(\text{La},\text{Sr})\text{CoO}_3$ <i>Solid State Ionics</i> , 2011 , 192, 42-48	3.3	29
107	Lanthanum substituted CeNbO_4 scheelites: mixed conductivity and structure at elevated temperatures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3503		29
106	High-temperature transport and stability of $\text{SrFe}_{1-x}\text{Nb}_x\text{O}_3$ <i>Solid State Sciences</i> , 2009 , 11, 1156-1162	3.4	28
105	Oxygen ion and electron conductivity in fluorite-like molybdates $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ and $\text{Pr}_5\text{Mo}_3\text{O}_{16}$. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 395-400	5.7	27
104	Oxygen Nonstoichiometry and Ionic Conductivity of $\text{Sr}_3\text{Fe}_{2-x}\text{Sc}_x\text{O}_7$ <i>Chemistry of Materials</i> , 2007 , 19, 3980-3987	9.6	27
103	High-temperature electrical conductivity of $\text{Sr}_{0.7}\text{La}_{0.3}\text{FeO}_3$ <i>Solid State Ionics</i> , 2001 , 144, 361-369	3.3	27
102	Oxygen nonstoichiometry, chemical expansion, mixed conductivity, and anodic behavior of Mo-substituted $\text{Sr}_3\text{Fe}_2\text{O}_7$ <i>Solid State Ionics</i> , 2010 , 181, 1052-1063	3.3	26
101	Thermodynamics of the movable oxygen and conducting properties of the solid solution $\text{YBa}_2\text{Cu}_3-x\text{Co}_x\text{O}_6$ at high temperatures. <i>Ionics</i> , 1998 , 4, 191-199	2.7	26
100	Structural Aspects of Lithium Transfer in Solid Electrolytes $\text{Li}_{2x}\text{Zn}_{2-3x}\text{Ti}_{1+x}\text{O}_4$ ($0.33 \leq x \leq 0.67$). <i>Journal of Structural Chemistry</i> , 2004 , 45, 262-268	0.9	26
99	Reaction control and long-term stability of partial methane oxidation over an oxygen membrane. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 253-257	2.6	25
98	Oxygen nonstoichiometry and ionic transport in $\text{La}_2\text{Ni}(\text{Fe})\text{O}_4$ <i>Solid State Ionics</i> , 2008 , 179, 57-60	3.3	25
97	Oxygen non-stoichiometry and defect equilibria in CaMnO_3 <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1187-1191	2.6	24

96	Mixed conductivity and Mössbauer spectra of $(\text{La}_{0.5}\text{Sr}_{0.5})_{1-x}\text{Fe}_{1-y}\text{Al}_y\text{O}_3$ ($x=0.05, y=0.30$). <i>Journal of Solid State Chemistry</i> , 2006 , 179, 1273-1284	3.3	24
95	Methane oxidation over perovskite-related ferrites: Effects of oxygen nonstoichiometry. <i>Solid State Sciences</i> , 2005 , 7, 1344-1352	3.4	24
94	Evaluation of $\text{La}_{0.5}\text{Sr}_{0.5}\text{FeO}_3$ membrane reactors for partial oxidation of methane. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 391-395	2.6	23
93	Defect formation in double perovskites $\text{PrBaCo}_2\text{C}_x\text{O}_5$ at elevated temperatures. <i>Solid State Ionics</i> , 2015 , 274, 17-23	3.3	21
92	Oxygen nonstoichiometry, Mössbauer spectra and mixed conductivity of $\text{Pr}_{0.5}\text{Sr}_{0.5}\text{FeO}_3$ <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 355-366	3.9	21
91	Oxygen vacancy formation and ionic transport in $\text{Sr}_4\text{Fe}_6\text{O}_{13}$ <i>Journal of Solid State Electrochemistry</i> , 2002 , 6, 217-224	2.6	21
90	Defect formation and transport in $\text{SrFe}_{1-x}\text{Al}_x\text{O}_3$ <i>Ionics</i> , 2004 , 10, 378-384	2.7	20
89	Oxygen nonstoichiometry and electron-hole transport in $\text{La}_2\text{Ni}_{0.9}\text{Co}_{0.1}\text{O}_4$?. <i>Solid State Ionics</i> , 2005 , 176, 179-188	3.3	20
88	Oxygen thermodynamics and ion conductivity in the solid solution $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ at large strontium content. <i>Ionics</i> , 1999 , 5, 444-449	2.7	20
87	High-temperature electron-hole transport in $\text{PrBaCo}_2\text{O}_5$ <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1951-1955	3.3	19
86	Defect interactions in $\text{La}_{0.3}\text{Sr}_{0.7}\text{Fe}(\text{M})\text{O}_3$ ($\text{M}=\text{Al, Ga}$) perovskites: Atomistic simulations and analysis of $p(\text{O}_2)$ -T diagrams. <i>Solid State Ionics</i> , 2006 , 177, 457-470	3.3	19
85	Mössbauer Spectra and Catalytic Behavior of Perovskite-like $\text{SrFe}_{0.7}\text{Al}_{0.3}\text{O}_3$ <i>Catalysis Letters</i> , 2005 , 99, 249-255	2.8	18
84	Oxygen non-stoichiometry and mixed conductivity of $\text{La}_{0.5}\text{Sr}_{0.5}\text{Fe}_{1-x}\text{Mn}_x\text{O}_3$ <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 225-234	2.6	17
83	Non-uniform electron conduction in weakly ordered SrFeMoO . <i>Dalton Transactions</i> , 2019 , 48, 4530-4537	4.3	17
82	Improved stability and defect structure of yttrium doped cobaltite $\text{PrBaCo}_2\text{O}_6$ <i>Solid State Ionics</i> , 2016 , 295, 90-95	3.3	17
81	Transport properties and thermal expansion of perovskite-like $\text{La}_{0.3}\text{Sr}_{0.7}\text{Fe}(\text{Al,Cr})\text{O}_3$ ceramics. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 2603-2607	6	17
80	Mixed conductivity, stability and thermomechanical properties of Ni-doped $\text{La}(\text{Ga,Mg})\text{O}_3$ <i>Solid State Ionics</i> , 2006 , 177, 549-558	3.3	16
79	Redox behaviour of $\text{Sr}_4\text{Fe}_6\text{O}_{13}$ by Mössbauer spectroscopy and neutron diffraction. <i>Materials Letters</i> , 2003 , 57, 3245-3250	3.3	16

- 78 Oxygen nonstoichiometry and defect equilibrium in electron doped $\text{Ca}_{0.6}\text{Br}_{0.4}\text{LaMnO}_3$ *Journal of Alloys and Compounds*, **2015**, 638, 44-49 5.7 15
- 77 The impact of oxygen nonstoichiometry upon partial molar thermodynamic quantities in $\text{PrBaCo}_2\text{O}_5$ *Journal of Solid State Chemistry*, **2014**, 213, 93-97 3.3 15
- 76 Electron transport in CaMnO_3 at elevated temperatures: a mobility analysis. *Journal of Solid State Electrochemistry*, **2013**, 17, 1449-1454 2.6 15
- 75 Oxygen non-stoichiometry of $\text{Ln}_4\text{Ni}_{2.7}\text{Fe}_{0.3}\text{O}_{10}$ (Ln=La, Pr). *Journal of Solid State Chemistry*, **2007**, 180, 1902-1910 3.3 15
- 74 Ceramic membranes with mixed conductivity and their application. *Russian Chemical Reviews*, **2013**, 82, 772-782 6.8 14
- 73 Structural features and enhanced high-temperature oxygen ion transport in $\text{SrFe}_{1-x}\text{Ta}_x\text{O}_3$ *Journal of Solid State Chemistry*, **2013**, 197, 191-197 3.3 14
- 72 Oxygen-ion and electron conductivity in $\text{Sr}_2(\text{Fe}_{1-x}\text{Ga}_x)_2\text{O}_5$. *Journal of Solid State Chemistry*, **2006**, 179, 3045-3051 3.3 14
- 71 The oxygen permeation through $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. *Solid State Ionics*, **1993**, 66, 61-67 3.3 14
- 70 Thermodynamics of oxygen in CaMnO_3 *Journal of Solid State Electrochemistry*, **2013**, 17, 3185-3190 2.6 13
- 69 Mechanisms of hopping conductivity in weakly doped $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$. *Journal of Physics Condensed Matter*, **2005**, 17, 3429-3444 1.8 12
- 68 Thermodynamic and structural properties of $\text{PrBaCo}_2\text{O}_5$ *Inorganic Materials*, **2006**, 42, 196-201 0.9 12
- 67 Interfacial effects in electrochemical cells for oxygen ionic conduction measurements: III. Transference numbers vs. grain-boundary resistivity. *Solid State Ionics*, **2004**, 168, 137-151 3.3 12
- 66 Defect formation, ordering, and transport in $\text{SrFe}_{1-x}\text{Si}_x\text{O}_3$ ($x = 0.05-0.20$). *Journal of Solid State Electrochemistry*, **2018**, 22, 727-737 2.6 12
- 65 Oxygen nonstoichiometry and defect equilibria in $\text{La}_{0.49}\text{Sr}_{0.5}\text{Ba}_x\text{FeO}_3$ *Materials Letters*, **2018**, 213, 58-61 3.3 12
- 64 Fabrication and Testing of a Tubular Thermoelectric Module Based on Oxide Elements. *Journal of Electronic Materials*, **2018**, 47, 2808-2816 1.9 11
- 63 Defect equilibrium in $\text{PrBaCo}_2\text{O}_5$ at elevated temperatures. *Journal of Solid State Chemistry*, **2013**, 206, 99-103 3.3 11
- 62 The relation between high-temperature thermopower, conductivity and oxygen content in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. *Journal of Alloys and Compounds*, **1998**, 274, 103-109 5.7 11
- 61 High-temperature phase equilibria in the oxide systems $\text{SrFe}_{1-x}\text{Ga}_x\text{O}_{2.5}$ $\text{PrFe}_{1-x}\text{Ga}_x\text{O}_3$ ($x = 0, 0.1, 0.2$). *Journal of Solid State Chemistry*, **2006**, 179, 1093-1099 3.3 11

60	High-temperature thermopower and conductivity of $\text{La}_{1-x}\text{BaxMnO}_3$ ($0.02 \leq x \leq 0.35$). <i>Journal of Solid State Chemistry</i> , 2003 , 172, 1-5	3.3	11
59	Influence of the phase separation effect on low-field magnetic properties of $\text{La}_{1-x}\text{BaxMnO}_3$. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 892-902	2.8	11
58	Uncertainty of oxygen content in highly nonstoichiometric oxides from neutron diffraction data: example of perovskite-type $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3456-3463	1.3	10
57	The p(O)-T stability domain of cubic perovskite BaSrCoFeO . <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4442-4454	3.6	10
56	Temperature activated electron transport in CaMnO_3 . <i>Solid State Ionics</i> , 2014 , 262, 678-681	3.3	10
55	Mixed conductivity, thermochemical expansion and electrochemical activity of Fe-substituted $(\text{La,Sr})(\text{Cr,Mg})\text{O}_3$ for solid oxide fuel cell anodes. <i>Journal of Power Sources</i> , 2014 , 249, 483-496	8.9	10
54	Defect formation in $\text{LaGa}(\text{Mg,Ni})\text{O}_3$ A statistical thermodynamic analysis validated by mixed conductivity and magnetic susceptibility measurements. <i>Physical Review B</i> , 2006 , 74,	3.3	10
53	High temperature thermodynamics and oxygen permeability of $\text{PrBa}_2\text{Cu}_3\text{O}_6 + x$. <i>Solid State Ionics</i> , 1995 , 82, 5-13	3.3	10
52	Electron transport and mobility analysis in La/Sr co-doped CaMnO_3 <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2099-2108	2.6	9
51	Defect chemistry and high-temperature transport in $\text{SrFe}_{1-x}\text{Sn}_x\text{O}_3$ <i>Journal of Solid State Chemistry</i> , 2016 , 243, 190-197	3.3	9
50	Structural features and high-temperature properties of $\text{SrFe}_{1-x}\text{Bi}_x\text{O}_3$ <i>Solid State Ionics</i> , 2016 , 292, 83-87	3.3	9
49	Improved structural stability, electron transport and defect formation in $\text{PrBaCo}_2\text{Al}_x\text{O}_6$ <i>Journal of Alloys and Compounds</i> , 2018 , 767, 1041-1047	5.7	9
48	Phase separation-promoted ion conduction in $\text{SrFe}_{0.67}\text{Ni}_{0.33}\text{O}_3$ ceramics. <i>Solid State Ionics</i> , 2013 , 244, 17-22	3.3	9
47	The structure, nonstoichiometry, and thermodynamic characteristics of oxygen in strontium ferrite doped with niobium, $\text{SrFe}_{1-x}\text{Nb}_x\text{O}_3$ <i>Russian Journal of Physical Chemistry A</i> , 2009 , 83, 699-704	0.7	9
46	Oxygen nonstoichiometry and the thermodynamic and structural properties of double perovskites $\text{PrBaCo}_2\text{Ni}_x\text{Cu}_{1-x}\text{O}_5$ <i>Russian Journal of Physical Chemistry A</i> , 2009 , 83, 832-838	0.7	9
45	Defect Interactions in $\text{Sr}_3\text{La}(\text{Fe,Al})_3\text{O}_{10}$ by Computer Simulations and Mössbauer Spectroscopy. <i>Chemistry of Materials</i> , 2009 , 21, 5072-5078	9.6	9
44	A Novel Complex Cobalt Gallium Oxide $\text{Ca}_2\text{Co}_{0.8}\text{Ga}_{1.2}\text{O}_4$: Synthesis and High-Temperature Electron Transport Properties. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 196-202	3.3	9
43	Rare-Earth-Substituted Strontium Titanate: Insight into Local Oxygen-Rich Structures and Redox Kinetics. <i>Inorganic Chemistry</i> , 2016 , 55, 4836-49	5.1	9

42	Oxygen Nonstoichiometry and Ion-Electron Transport in SrFe _{0.9} M _{0.1} O _{3-δ} (M=Cr, Ti, Al). <i>Materials Science Forum</i> , 2006 , 514-516, 382-386	0.4	8
41	Intercalation thermodynamics and chemical diffusion of oxygen in the solid solution YBa ₂ Cu _{3-x} CoxO _{6+δ} <i>Solid State Ionics</i> , 1999 , 120, 239-249	3.3	8
40	Hydrogen and synthesis gas co-production on oxygen membranes of mixed conductor: Scale-sensitive features of the process. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26807-26815	6.7	7
39	Structure and transport properties of La _{0.5} Sr _{0.5-x} CaxFeO ₃ <i>Solid State Ionics</i> , 2014 , 262, 672-677	3.3	7
38	The oxygen conductivity and chemical diffusion in YBa ₂ Cu ₃ O _{6+δ} <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 210, 213-220	1.3	7
37	SrFe ₁₂ O ₁₉ as an impurity in perovskite-type ferrites. <i>Materials Letters</i> , 2021 , 283, 128753	3.3	7
36	Seebeck coefficient of Ca _{1-x} Pr _x MnO ₃ paramagnetic manganites. <i>Inorganic Materials</i> , 2017 , 53, 583-588	0.9	6
35	Electrical conductivity and carrier mobility in Ca _{1-x} Pr _x MnO ₃ manganites. <i>Inorganic Materials</i> , 2017 , 53, 589-594	0.9	6
34	Oxygen intercalation in Ruddlesden-Popper type Sr ₃ LaFe ₃ O ₁₀ <i>Materials Letters</i> , 2018 , 218, 325-328	3.3	6
33	Ceramic and transport properties of halogen-substituted strontium ferrite. <i>Ceramics International</i> , 2018 , 44, 11301-11306	5.1	6
32	Oxygen Nonstoichiometry of (Nd _{2/3} Ce _{1/3}) ₄ (Ba _{2/3} Nd _{1/3}) ₄ Cu ₆ O _{16+x} . <i>Journal of Solid State Chemistry</i> , 1995 , 120, 146-150	3.3	6
31	Oxygen nonstoichiometry and the thermodynamic properties of manganites Ca _{1-x} Sr _x La _y MnO ₃ <i>Russian Journal of Physical Chemistry A</i> , 2011 , 85, 343-347	0.7	5
30	Oxygen Intercalation in Strontium Ferrite: Evolution of Thermodynamics and Electron Transport Properties 2002 , 565-572		5
29	Oxygen Nonstoichiometry and Transport Properties of Mixed-Conducting Ce _{0.6} La _{0.4} Pr _x O ₂ <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 486-492	1.2	5
28	Redox behavior and ionic conductivity of Al-doped Sr ₃ LaFe ₃ O ₁₀ <i>Materials Letters</i> , 2020 , 265, 127425	3.3	4
27	High-temperature thermodynamics of oxygen equilibrium of solid solutions YBa ₂ Cu _{3-x} ZnxO _{6+δ} with gas phase. <i>Journal of Alloys and Compounds</i> , 1998 , 274, 98-102	5.7	4
26	Oxygen nonstoichiometry and defect equilibrium in Ca _{1-x} Pr _x MnO ₃ manganites. <i>Russian Journal of Physical Chemistry A</i> , 2016 , 90, 1682-1686	0.7	4
25	Ion transport in dual-phase SrFe _{1-x} O ₃ (x = 0.03-0.10): effects of redox cycling. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 841-849	2.6	3

24	Redox behavior and transport properties of $\text{La}_{0.5-x}\text{Ce}_x\text{Sr}_{0.5+x}\text{FeO}_3$ and $\text{La}_{0.5-y}\text{Sr}_{0.5+2y}\text{Fe}_{1-y}\text{Nb}_y\text{O}_3$ perovskites. <i>Solid State Sciences</i> , 2007 , 9, 32-42	3-4	3
23	Oxygen nonstoichiometry and defect chemistry of perovskite-type $\text{Ca}_{0.25}\text{Sr}_{0.75}\text{Fe}_{0.75}\text{Mo}_{0.25}\text{O}_3$ <i>Materials Letters</i> , 2019 , 236, 719-722	3-3	3
22	Phase Transitions and Ion Transport in $\text{SrFe}_{1-x}\text{M}_x\text{O}_{2.5}$, where M = Ga, Cr 2004 , 163-168		3
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