Vladislav Kharton

List of Publications by Year in Descending Order

343 papers	11,734 citations	56 h-index	90 g-index
371 ext. papers	12,398 ext. citations	4.2 avg, IF	6.23 L-index

#	Paper	IF	Citations
343	Spectroscopic characterization of cobalt doped bismuth tantalate pyrochlore. *Solid State Sciences*, **2022**, 125, 106820	3.4	3
342	Mixed Ionic-Electronic Conductivity of the Fluorite-Type Ce1 x yLaxPryO2 Solid Solutions under Reducing Conditions. *Russian Journal of Electrochemistry*, **2022**, 58, 122-130	1.2	0
341	Cu, Mg Codoped Bismuth Tantalate Pyrochlores: Crystal Structure, XPS Spectra, Thermal Expansion, and Electrical Properties.. *Inorganic Chemistry*, **2022**, 61, 4270-4282	5.1	3
340	Ionic transport in (La,Sr)CoO3- ceramics. *Journal of Solid State Electrochemistry*, **2021**, 25, 2777	2.6	
339	Thermal Expansion, XPS Spectra, and Structural and Electrical Properties of a New BiNiTaO Pyrochlore. *Inorganic Chemistry*, **2021**, 60, 4924-4934	5.1	14
338	Electronic structure of Mn-doped CaCu3Ti4O12: An XPS, ESR and NEXAFS study. *Ceramics International*, **2021**, 47, 9923-9932	5.1	2
337	Thermal expansion and electrical properties of Fe-doped CaCu3Ti4O12 ceramics. *Materials Chemistry and Physics*, **2021**, 258, 123996	4.4	0
336	Novel Ni-Doped Bismuth-Magnesium Tantalate Pyrochlores: Structural and Electrical Properties, Thermal Expansion, X-ray Photoelectron Spectroscopy, and Near-Edge X-ray Absorption Fine Structure Spectra. *ACS Omega*, **2021**, 6, 23262-23273	3.9	6
335	Mathematical modeling and simulation of hydrogen-fueled solid oxide fuel cell system for micro-grid applications - Effect of failure and degradation on transient performance. *Energy*, **2020**, 202, 117752	7.9	8
334	Phase Transformations and Thermal Expansion of - and BiTaO4 and the High-Temperature Modification BiTaO4. *Chemistry of Materials*, **2020**, 32, 5493-5501	9.6	10
333	Transient system-level performance and thermo-mechanical stress analysis of a solid oxide fuel cell-based power generation plant with a multi-physics approach. *Computers and Chemical Engineering*, **2020**, 140, 106972	4	4
332	Redox behavior and ionic conductivity of Al-doped Sr3LaFe3O10 *Materials Letters*, **2020**, 265, 127425	3.3	4
331	Electrochemical Behavior of (Fe,Ni)Ox-Based Anodes for Solid-Oxide Fuel Cells in Methane-Containing Atmospheres. *Russian Journal of Electrochemistry*, **2020**, 56, 147-155	1.2	1
330	Stability and Functional Properties of Fluorite-Like Ce0.6 La0.4PrxO2 as Electrode Components for Solid Oxide Fuel Cells. *Russian Journal of Electrochemistry*, **2020**, 56, 139-146	1.2	1
329	The Mixed Electronic and Ionic Conductivity of Perovskite-Like Ba1 SrxFe1 yTiyO3 and BaTi0.5Fe0.5 CezO3 Solid Solutions. *Russian Journal of Electrochemistry*, **2020**, 56, 110-117	1.2	2
328	Progress and challenges in solid-state electrochemical research: selected aspects. *Journal of Solid State Electrochemistry*, **2020**, 24, 2097-2098	2.6	
327	Ionic conductivity and thermal expansion of anion-deficient Sr11Mo4O23 perovskite. *Journal of Solid State Electrochemistry*, **2020**, 24, 2943-2951	2.6	1

326	Time degradation of electronic and ionic transport in perovskite-like La0.5Ca0.5FeO3 *Materials Letters*, **2019**, 239, 167-171	3.3	2
325	Composition-gradient protective coatings for solid oxide fuel cell interconnectors. *Materials Letters*, **2019**, 240, 201-204	3.3	5
324	Rh/ Al2O3/FeCrAlloy wire mesh composite catalyst for partial oxidation of natural gas. *Materials Letters*, **2019**, 236, 316-319	3.3	14
323	Oxygen intercalation in Ruddlesden-Popper type Sr3LaFe3O10- *Materials Letters*, **2018**, 218, 325-328	3.3	6
322	Local Structure Adaptations and Oxide Ionic Conductivity in the Type III Stability Region of (1 x)Bi2O3 xNb2O5. *Chemistry of Materials*, **2018**, 30, 3387-3394	9.6	1
321	Transport and Electrochemical Properties of SrFe(Al,Mo)O3 *Russian Journal of Electrochemistry*, **2018**, 54, 514-526	1.2	2
320	Defect formation, ordering, and transport in SrFe1 Si x O3 (x = 0.05 0.20). *Journal of Solid State Electrochemistry*, **2018**, 22, 727-737	2.6	12
319	Oxygen Nonstoichiometry and Transport Properties of Mixed-Conducting Ce0.6 La0.4Pr x O2 *Russian Journal of Electrochemistry*, **2018**, 54, 486-492	1.2	5
318	Redox Behavior and Transport Properties of Composites Based on (Fe,Ni)3O4 for Anodes of Solid Oxide Fuel Cells. *Russian Journal of Electrochemistry*, **2018**, 54, 506-513	1.2	3
317	Electrical Conductivity, Thermal Expansion and Electrochemical Properties of Perovskites PrBaFe2 Ni x O5 + *Russian Journal of Electrochemistry*, **2018**, 54, 533-540	1.2	9
316	Grain-boundary states in solid oxide electrolyte ceramics processed using iron oxide sintering aids: a M sbauer spectroscopy study. *Journal of Solid State Electrochemistry*, **2017**, 21, 2965-2974	2.6	11
315	Understanding the Formation of CaAlSiO in Melilite-Based Glass-Ceramics: Combined Diffraction and Spectroscopic Studies. *ACS Omega*, **2017**, 2, 6233-6243	3.9	15
314	Electrophysical and thermomechanical properties of perovskites La0.5A0.5Mn0.5Ti0.5O3 (A = Ca, Sr, Ba) used as fuel cell anodes: the effect of radius of alkali-earth cation. *Russian Journal of Electrochemistry*, **2016**, 52, 622-627	1.2	
313	Regularities of high-temperature oxidation of current collectors of solid oxide fuel cells due to diffusion processes in subsurface regions. *Russian Journal of Electrochemistry*, **2016**, 52, 678-684	1.2	2
312	Stability, mixed conductivity, and thermomechanical properties of perovskite materials for fuel cell electrodes based on La0.5A0.5Mn0.5Ti0.5O3 La0.5Ba0.5Ti0.5Fe0.5O3 and (La0.5 0.5)0.95Cr0.5Fe0.5O3 (A = Ca, Ba). *Russian Journal of Electrochemistry*, **2016**, 52, 628-641	1.2	2
311	Kinetics of NiO reduction and morphological changes in composite anodes of solid oxide fuel cells: Estimate using Raman scattering technique. *Russian Journal of Electrochemistry*, **2016**, 52, 600-605	1.2	13
310	Development of bilayer glass-ceramic SOFC sealants via optimizing the chemical composition of glasses review. *Journal of Solid State Electrochemistry*, **2015**, 19, 2899-2916	2.6	20
309	Ion transport in dual-phase SrFe1 O3 (x = 0.03 0.10): effects of redox cycling. *Journal of Solid State Electrochemistry*, **2015**, 19, 841-849	2.6	3

308	Nonstoichiometry, thermal expansion and oxygen permeability of SmBaCo2 xCuxO6 . *Solid State Ionics*, **2014**, 260, 15-20	3.3	4
307	Effect of strontium-to-calcium ratio on the structure, crystallization behavior and functional properties of diopside-based glasses. *International Journal of Hydrogen Energy*, **2014**, 39, 3552-3563	6.7	12
306	Oxygen exchange, thermochemical expansion and cathodic behavior of perovskite-like Sr0.7Ce0.3MnO3- . *Solid State Ionics*, **2014**, 262, 349-353	3.3	5
305	Structure and transport properties of La0.5Sr0.5 CaxFeO3 . *Solid State Ionics*, **2014**, 262, 672-677	3.3	7
304	Mixed conductivity, thermochemical expansion and electrochemical activity of Fe-substituted (La,Sr)(Cr,Mg)O3 for solid oxide fuel cell anodes. *Journal of Power Sources*, **2014**, 249, 483-496	8.9	10
303	Analysis of electric properties of ZrO2-Y2O3 single crystals using teraherz IR and impedance spectroscopy techniques. *Russian Journal of Electrochemistry*, **2014**, 50, 690-693	1.2	13
302	Synthesis and properties of fuel cell anodes based on (La0.5 + x Sr0.5 x)1 y Mn0.5Ti0.5O3 (x = 0 0.25, y = 0 0.03). *Russian Journal of Electrochemistry*, **2014**, 50, 730-736	1.2	6
301	Stability and functional properties of Sr0.7Ce0.3MnO3 as cathode material for solid oxide fuel cells. *Russian Journal of Electrochemistry*, **2014**, 50, 713-718	1.2	2
300	Thermal and mechanical stability of lanthanide-containing glass ceramic sealants for solid oxide fuel cells. *Journal of Materials Chemistry A*, **2014**, 2, 1834-1846	13	28
299	Phase behavior and mixed ionic electronic conductivity of Ba4Sb2O9. *Solid State Ionics*, **2013**, 235, 1-7	3.3	8
298	Magnetic structure of Sr2Fe2O5 brownmillerite by single-crystal Mssbauer spectroscopy. *Journal of Solid State Chemistry*, **2013**, 205, 5-9	3.3	7
297	Phase separation-promoted ion conduction in SrFe0.67 0.33O3 ceramics. *Solid State Ionics*, **2013**, 244, 17-22	3.3	9
296	Diopside Ba disilicate glass ceramic sealants for SOFCs: Enhanced adhesion and thermal stability by Sr for Ca substitution. *International Journal of Hydrogen Energy*, **2013**, 38, 3073-3086	6.7	38
295	Aluminosilicate-based sealants for SOFCs and other electrochemical applications A brief review. *Journal of Power Sources*, **2013**, 242, 486-502	8.9	78
294	Reference Electrodes for Solid-Electrolyte Devices **2013**, 243-278		
293	Synthesis, crystal structure and properties of SmBaCo2 FexO5+ . *Journal of Solid State Chemistry*, **2013**, 204, 219-223	3.3	35
292	A (3 + 3)-dimensional "hypercubic" oxide-ionic conductor: type II Bi2O3-Nb2O5. *Journal of the American Chemical Society*, **2013**, 135, 6477-84	16.4	28
291	Functional properties of SOFC anode materials based on LaCrO3, La(Ti,Mn)O3 and Sr(Nb,Mn)O3 perovskites: A comparative analysis. *Solid State Ionics*, **2013**, 251, 28-33	3.3	14

290	Melilite glass–ceramic sealants for solid oxide fuel cells: effects of ZrO2 additions assessed by microscopy, diffraction and solid-state NMR. *Journal of Materials Chemistry A*, **2013**, 1, 6471	13	13
289	Oxygen Ionic Transport in Brownmillerite-Type Ca2Fe2O5-δ and Calcium Ferrite-Based Composite Membranes. *Solid State Phenomena*, **2013**, 200, 286-292	0.4	3
288	SrO-Containing Diopside Glass–Ceramic Sealants for Solid Oxide Fuel Cells: Mechanical Reliability and Thermal Shock Resistance. *Fuel Cells*, **2013**, 13, n/a-n/a	2.9	2
287	Thermomechanical, transport and anodic properties of perovskite-type (La0.75Sr0.25)0.95Cr1−xFexO3−δ. *Journal of Power Sources*, **2012**, 206, 59-69	8.9	29
286	The role of K2O on sintering and crystallization of glass powder compacts in the Li2O–K2O–Al2O3–SiO2 system. *Journal of the European Ceramic Society*, **2012**, 32, 2283-2292	6	30
285	High-pressure behavior and equations of state of the cobaltates YBaCo4O7, . *Journal of Solid State Chemistry*, **2012**, 196, 209-216	3.3	3
284	Study of melilite based glasses and glass-ceramics nucleated by Bi2O3 for functional applications. *RSC Advances*, **2012**, 2, 10955	3.7	26
283	Magnetization, Mössbauer and isothermal dilatometric behavior of oxidized YBa(Co,Fe)4O(7+δ). *Dalton Transactions*, **2012**, 41, 667-78	4.3	6
282	Diopside – Mg orthosilicate and diopside – Ba disilicate glass–ceramics for sealing applications in SOFC: Sintering and chemical interactions studies. *International Journal of Hydrogen Energy*, **2012**, 37, 12528-12539	6.7	21
281	Redox behavior and transport properties of brownmillerite Ca2(Fe,M)2O5−δ (M = Mn, Co). *Solid State Ionics*, **2012**, 225, 206-210	3.3	10
280	Pronounced impact of atmospheric conditions on Ba4Nb2O9 and Ba4Ta2O9. *Solid State Ionics*, **2012** , 225, 172-175	3.3	2
279	Electrical, electrochemical, and thermomechanical properties of perovskite-type (La1−x Sr x)1−y Mn0.5Ti0.5O3−δ (x = 0.15–0.75, y = 0–0.05). *Journal of Solid State Electrochemistry*, **2012**, 16, 2335-2348	2.6	15
278	Oxygen- and Hydrogen-Permeable Dense Ceramic Membranes **2011**, 467-500		1
277	Electrical Properties and Dimensional Stability of Ce-Doped SrTiO3 for Solid Oxide Fuel Cell Applications. *Journal of the American Ceramic Society*, **2011**, 94, 2993-3000	3.8	26
276	Surface analysis of mixed-conducting ferrite membranes by the conversion-electron Mössbauer spectroscopy. *Journal of Solid State Chemistry*, **2011**, 184, 2610-2614	3.3	2
275	Transport, thermomechanical, and electrode properties of perovskite-type ({left({{hbox{L}}{{hbox{a}}_{0.{75} - x}}{hbox{S}}{{hbox{r}}_{0.{25} + x}}} right)_{0.{95}}}}{hbox{M}}{{hbox{n}}_{0.{5}}}}{hbox{C}}{{hbox{r}}_{0.{5} -	2.6	21
274	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	2.6	5
273	Electrode materials and reaction mechanisms in solid oxide fuel cells: a brief review. III. Recent trends and selected methodological aspects. *Journal of Solid State Electrochemistry*, **2011**, 15, 1007-1040	2.6	105

272	Processing and oxygen permeation studies of asymmetric multilayer Ba0.5Sr0.5Co0.8Fe0.2O3 membranes. *Journal of Membrane Science*, **2011**, 380, 68-80	9.6	38
271	Stability, oxygen permeability and chemical expansion of Sr(Fe,Al)O3 and Sr(Co,Fe)O3 based membranes. *Solid State Ionics*, **2011**, 192, 259-268	3.3	18
270	High-temperature electrical properties of magnesiowustite Mg1FexO and spinel Fe3MgxCryO4 ceramics. *Solid State Ionics*, **2011**, 192, 252-258	3.3	15
269	Dynamical Instabilities in Electrochemical Processes **2011**, 125-178		12
268	Complex room-temperature ferrimagnetism induced by zigzag stripes of oxygen vacancies in Sr3YCo4O10+ *Physical Review B*, **2011**, 83,	3.3	26
267	Surface states and stability of Fe-containing perovskite electrodes for SOFCs/SOECs by conversion-electron Mssbauer spectroscopy. *Electrochemistry Communications*, **2011**, 13, 685-688	5.1	2
266	B-site substitutions in LaNb1MxO4 materials in the search for potential proton conductors (M=Ga, Ge, Si, B, Ti, Zr, P, Al). *Journal of Solid State Chemistry*, **2011**, 184, 863-870	3.3	39
265	Guidelines for improving resistance to CO2 of materials for solid state electrochemical systems. *Solid State Ionics*, **2011**, 192, 16-20	3.3	12
264	Oxygen deficiency, vacancy clustering and ionic transport in (La,Sr)CoO3 *Solid State Ionics*, **2011** , 192, 42-48	3.3	29
263	Oxygen permeability and stability of asymmetric multilayer Ba0.5Sr0.5Co0.8Fe0.2O3 ceramic membranes. *Solid State Ionics*, **2011**, 192, 677-681	3.3	29
262	Interfacial Phenomena in Mixed Conducting Membranes: Surface Oxygen Exchange- and Microstructure-Related Factors **2011**, 501-539		
261	Sputtered YSZ based protective thin films for SOFCs. *Surface Engineering*, **2010**, 26, 584-589	2.6	4
260	Simulation of an Oxygen Membrane-Based Gas Turbine Power Plant: Dynamic Regimes with Operational and Material Constraints. *Energy & Fuels*, **2010**, 24, 590-608	4.1	16
259	Structures, Phase Transitions, Hydration, and Ionic Conductivity of Ba4Ta2O9. *Chemistry of Materials*, **2010**, 22, 532-540	9.6	36
258	Enhanced Low-Temperature Proton Conduction in Sr0.02La0.98NbO4 by Scheelite Phase Retention. *Chemistry of Materials*, **2010**, 22, 6673-6683	9.6	37
257	Oxygen nonstoichiometry, chemical expansion, mixed conductivity, and anodic behavior of Mo-substituted Sr3Fe2O7- *Solid State Ionics*, **2010**, 181, 1052-1063	3.3	26
256	Oxygen nonstoichiometry, thermal expansion and high-temperature electrical properties of layered NdBaCo2O5+ and SmBaCo2O5+ *Materials Research Bulletin*, **2010**, 45, 1288-1292	5.1	48
255	Electrical behavior of aluminosilicate glass-ceramic sealants and their interaction with metallic solid oxide fuel cell interconnects. *Journal of Power Sources*, **2010**, 195, 522-526	8.9	29

254	Geometric parameterization of the YBaCo4O7 structure type: Implications for stability of the hexagonal form and oxygen uptake. *Journal of Solid State Chemistry*, **2010**, 183, 2506-2509	3.3	12
253	Atomic-scale insight into the oxygen ionic transport mechanisms in La2NiO4-based materials. *Computational and Theoretical Chemistry*, **2010**, 946, 57-64		31
252	Sintering and Oxygen Transport in Ce[sub 0.8]Pr[sub 0.2]O[sub 2] A Comparative Study of Mn and Co Oxide Additives. *Journal of the Electrochemical Society*, **2009**, 156, F47	3.9	2
251	Performance of perovskite-related oxide cathodes in contact with lanthanum silicate electrolyte. *Solid State Ionics*, **2009**, 180, 878-885	3.3	31
250	Mössbauer spectroscopy analysis of 57Fe-doped YBaCo4O7+ Effects of oxygen intercalation. *Journal of Solid State Chemistry*, **2009**, 182, 640-643	3.3	28
249	Oxygen transport in La2NiO4 + Assessment of surface limitations and multilayer membrane architectures. *Solid State Ionics*, **2009**, 180, 812-816	3.3	48
248	Ceria based mixed conductors with adjusted electronic conductivity in the bulk and/or along grain boundaries. *Solid State Ionics*, **2009**, 180, 896-899	3.3	9
247	Protective YSZ-based thin films deposited by RF magnetron sputtering. *Vacuum*, **2009**, 83, 1266-1269	3.7	5
246	Optimization of La2O3-containing diopside based glass-ceramic sealants for fuel cell applications. *Journal of Power Sources*, **2009**, 189, 1032-1043	8.9	52
245	Transport Properties of Fluorite-Type Ce0.8Pr0.2O2 Optimization via the Use of Cobalt Oxide Sintering Aid. *Chemistry of Materials*, **2009**, 21, 381-391	9.6	29
244	Defect Interactions in Sr3La(Fe,Al)3O10 by Computer Simulations and Mössbauer Spectroscopy. *Chemistry of Materials*, **2009**, 21, 5072-5078	9.6	9
243	Structures, Phase Transitions, Hydration, and Ionic Conductivity of Ba4Nb2O9. *Chemistry of Materials*, **2009**, 21, 3853-3864	9.6	31
242	Simulation of an oxygen membrane-based combined cycle power plant: part-load operation with operational and material constraints. *Energy and Environmental Science*, **2009**, 2, 1310	35.4	14
241	Mixed Conductivity and Stability of CaFe[sub 2]O[sub 4] *Journal of the Electrochemical Society*, **2008**, 155, P13	3.9	14
240	Oxygen Nonstoichiometry, Mixed Conductivity, and Mössbauer Spectra of Ln0.5A0.5FeO3 (Ln = Lasm, A = Sr, Ba): Effects of Cation Size. *Chemistry of Materials*, **2008**, 20, 6457-6467	9.6	85
239	Crystal and magnetic structures of NdBaCo2O5+ (=0.75): A neutron diffraction study. *Physical Review B*, **2008**, 77,	3.3	5
238	Low-temperature behavior of YBaCo2O5.5: Coexistence of two spin-state ordered phases. *Physical Review B*, **2008**, 77,	3.3	18
237	Mixed conductivity, stability and electrochemical behavior of perovskite-type (Sr0.7Ce0.3)1 xMn1 yCryO3 *Solid State Ionics*, **2008**, 179, 2181-2191	3.3	7

236	Heterogeneous ceramics formed by grain boundary engineering. *Ionics*, **2008**, 14, 349-356	2.7	10
235	Electrode materials and reaction mechanisms in solid oxide fuel cells: a brief review. *Journal of Solid State Electrochemistry*, **2008**, 12, 1039-1060	2.6	162
234	Electrode materials and reaction mechanisms in solid oxide fuel cells: a brief review. *Journal of Solid State Electrochemistry*, **2008**, 12, 1367-1391	2.6	345
233	Mixed conductivity, oxygen permeability and redox behavior of K2NiF4-type La2Ni0.9Fe0.1O4+δ *Journal of Solid State Chemistry*, **2008**, 181, 1425-1433	3.3	59
232	High-temperature transport properties, thermal expansion and cathodic performance of Ni-substituted LaSr2Mn2O7-δ *Journal of Solid State Chemistry*, **2008**, 181, 3024-3032	3.3	14
231	The effect of Cr2O3 addition on crystallization and properties of La2O3-containing diopside glass-ceramics. *Acta Materialia*, **2008**, 56, 3065-3076	8.4	68
230	Oxygen nonstoichiometry and ionic transport in La2Ni(Fe)O4 + δ *Solid State Ionics*, **2008**, 179, 57-60	3.3	25
229	Processing and oxygen permeability of asymmetric ferrite-based ceramic membranes. *Solid State Ionics*, **2008**, 179, 61-65	3.3	11
228	Mixed conductivity, Mössbauer spectra and thermal expansion of (La,Sr)(Fe,Ni)O3-δ perovskites. *Solid State Ionics*, **2008**, 179, 2170-2180	3.3	37
227	Performance of tubular SrFe(Al)O3-δ–SrAl2O4 composite membranes in CO2- and CH4-containing atmospheres. *Journal of Membrane Science*, **2008**, 319, 141-148	9.6	19
226	Interfacial Effects in Potentiometric Oxygen Sensors: The Role of Transport Properties and Thickness of Solid Electrolyte Ceramics. *Sensor Letters*, **2008**, 6, 370-380	0.9	3
225	Methane oxidation over mixed-conducting SrFe(Al)O3-delta-SrAl2O4 composite. *Physical Chemistry Chemical Physics*, **2007**, 9, 2744-52	3.6	13
224	Oxygen Nonstoichiometry and Ionic Conductivity of Sr3Fe2-xScxO7-δ *Chemistry of Materials*, **2007**, 19, 3980-3987	9.6	27
223	Methane oxidation by lattice oxygen of CeNbO4+. *Catalysis Communications*, **2007**, 8, 335-339	3.2	19
222	Electrochemical behavior of mixed-conducting oxide cathodes in contact with apatite-type La10Si5AlO26.5 electrolyte. *Electrochimica Acta*, **2007**, 52, 4428-4435	6.7	52
221	High oxygen permeability in fluorite-type Ce0.8Pr0.2O2-δ via the use of sintering aids. *Journal of Membrane Science*, **2007**, 299, 1-7	9.6	47
220	Oxygen transport and stability of asymmetric SrFe(Al)O3-δ–SrAl2O4 composite membranes. *Journal of Membrane Science*, **2007**, 301, 238-244	9.6	16
219	Ionic and electronic transport in La2Ti2SiO9-based materials. *Journal of Solid State Chemistry*, **2007**, 180, 1259-1271	3.3	5

218	Oxygen non-stoichiometry of Ln4Ni2.7Fe0.3O10 (Ln=La, Pr). *Journal of Solid State Chemistry*, **2007**, 180, 1902-1910	3.3	15
217	Transitions between P21, P63(3A), and P6322 modifications of SrAl2O4 by in situ high-temperature X-ray and neutron diffraction. *Journal of Solid State Chemistry*, **2007**, 180, 3535-3544	3.3	54
216	Oxygen nonstoichiometry, Mssbauer spectra and mixed conductivity of Pr0.5Sr0.5FeO3 . *Journal of Physics and Chemistry of Solids*, **2007**, 68, 355-366	3.9	21
215	Phase relationships and transport in Ti-, Ce- and Zr-substituted lanthanum silicate systems. *Journal of the European Ceramic Society*, **2007**, 27, 2445-2454	6	23
214	Mixed conductivity, thermal expansion and defect chemistry of A-site deficient LaNi0.5Ti0.5O3 . *Journal of the European Ceramic Society*, **2007**, 27, 4279-4282	6	3
213	Stability and oxygen transport properties of Pr2NiO4+ ceramics. *Journal of the European Ceramic Society*, **2007**, 27, 4269-4272	6	51
212	Effect of BaO Addition on Crystallization, Microstructure, and Properties of Diopside Ca-Tschermak Clinopyroxene-Based Glass Ceramics. *Journal of the American Ceramic Society*, **2007**, 90, 2236-2244	3.8	21
211	Redox behavior and transport properties of La0.5 xCexSr0.5+xFeO3 and La0.5 ySr0.5+2yFe1 NbyO3 perovskites. *Solid State Sciences*, **2007**, 9, 32-42	3.4	3
210	Oxygen permeability, stability and electrochemical behavior of (Pr _{2} {text{NiO}}_{{4 + delta }})-based materials. *Journal of Electroceramics*, **2007**, 18, 205-218	1.5	66
209	Behavior of (La,Sr)CoO3- and La2NiO4-based ceramic anodes in alkaline media: compositional and microstructural factors. *Journal of Solid State Electrochemistry*, **2007**, 12, 15-30	2.6	4
208	Oxygen ion transport numbers: assessment of combined measurement methods. *Ionics*, **2007**, 13, 163-171	2.7	4
207	Mixed conductivity and electrochemical behavior of (La0.75Sr0.25)0.95Cr0.5Mn0.5O3 . *Solid State Ionics*, **2007**, 178, 101-113	3.3	103
206	Oxygen permeability, thermal expansion and stability of SrCo0.8Fe0.2O3 SrAl2O4 composites. *Solid State Ionics*, **2007**, 178, 1205-1217	3.3	34
205	Crystal structure, local sodium environments and ion dynamics in Na0.8Ni0.6Sb0.4O2, a new mixed antimonate. *Solid State Ionics*, **2007**, 178, 1360-1365	3.3	4
204	Oxygen ionic conductivity, Mssbauer spectra and thermal expansion of CaFe2O4- . *Solid State Ionics*, **2007**, 178, 1428-1436	3.3	26
203	Oxygen non-stoichiometry and defect thermodynamics in La2Ni0.9Fe0.1O4+ . *Journal of Physics and Chemistry of Solids*, **2007**, 68, 1443-1455	3.9	30
202	Characterization of (La0.9Sr0.1)0.95Cr0.85Mg0.10Ni0.05O3 Ceramics for Perovskite Related Membrane Reactor **2007**, 215		
201	Spin-state ordering and magnetic structures in the cobaltites YBaCo2O5+ (=0.50 and 0.44). *Physical Review B*, **2007**, 75,	3.3	82

200	Chemically Induced Expansion of La2NiO4+δ Based Materials. *Chemistry of Materials*, **2007**, 19, 2027-2033	9.6	109
199	Transport properties and electrochemical activity of YBa(Co,Fe)4O7 cathodes. *Solid State Ionics*, **2006**, 177, 1823-1826	3.3	52
198	Methane oxidation over SOFC anodes with nanocrystalline ceria-based phases. *Solid State Ionics*, **2006**, 177, 2179-2183	3.3	10
197	Oxygen transport in ferrite-based ceramic membranes: Effects of alumina sintering aid. *Journal of the European Ceramic Society*, **2006**, 26, 3695-3704	6	21
196	Oxygen permeability, electronic conductivity and stability of La0.3Sr0.7CoO3-based perovskites. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 134, 80-88	3.1	29
195	Silica-scavenging effect in zirconia electrolytes: assessment of lanthanum silicate formation. *Ionics*, **2006**, 12, 179-184	2.7	6
194	Oxygen nonstoichiometry and mixed conductivity of SrFe1−xO3−δ (M=Al, Ga): Effects of B-site doping. *Solid State Sciences*, **2006**, 8, 476-487	3.4	41
193	Defect formation and transport in La0.95Ni0.5Ti0.5O3−δ *Solid State Sciences*, **2006**, 8, 1302-1311	3.4	9
192	First observation of the reversible O3<-P2 phase transition. *Materials Research Bulletin*, **2006**, 41, 1056-1062	5.2	10
191	Defect Formation in La2Ni(M)O4+δ (M= Co, Cu): Modelling and Coulometric Titration Study. *Materials Science Forum*, **2006**, 514-516, 397-401	0.4	1
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