

# Peter R Slater

## List of Publications by Citations

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#	Paper	IF	Citations
170	Atomic-Scale Investigation of Defects, Dopants, and Lithium Transport in the LiFePO <sub>4</sub> Olivine-Type Battery Material. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5085-5092	9.6	848
169	Recycling lithium-ion batteries from electric vehicles. <i>Nature</i> , <b>2019</b> , 575, 75-86	50.4	735
168	New Chemical Systems for Solid Oxide Fuel Cells $\square$ <i>Chemistry of Materials</i> , <b>2010</b> , 22, 675-690	9.6	310
167	Defect chemistry and oxygen ion migration in the apatite-type materials La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> and La <sub>8</sub> Sr <sub>2</sub> Si <sub>6</sub> O <sub>26</sub> . <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 1956		228
166	A combined single crystal neutron/X-ray diffraction and solid-state nuclear magnetic resonance study of the hybrid perovskites CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> (X = I, Br and Cl). <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9298-9307	13	216
165	Developing apatites for solid oxide fuel cells: insight into structural, transport and doping properties. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3104		215
164	Cooperative mechanisms of fast-ion conduction in gallium-based oxides with tetrahedral moieties. <i>Nature Materials</i> , <b>2007</b> , 6, 871-5	27	164
163	Synthesis and electrical characterisation of doped perovskite titanates as potential anode materials for solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 2495-2498		143
162	Development of apatite-type oxide ion conductors. <i>Chemical Record</i> , <b>2004</b> , 4, 373-84	6.6	133
161	An apatite for fast oxide ion conduction. <i>Chemical Communications</i> , <b>2003</b> , 1486	5.8	118
160	Solid state <sup>29</sup> Si NMR studies of apatite-type oxide ion conductors. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1410		103
159	Local Defect Structures and Ion Transport Mechanisms in the Oxygen-Excess Apatite La <sub>9.67</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2.5</sub> . <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5055-5060	9.6	102
158	Doping strategies to optimise the oxide ion conductivity in apatite-type ionic conductors. <i>Dalton Transactions</i> , <b>2004</b> , 3106-9	4.3	90
157	Doping and defect association in AZrO(3) (A = Ca, Ba) and LaMO(3) (M = Sc, Ga) perovskite-type ionic conductors. <i>Dalton Transactions</i> , <b>2004</b> , 3061-6	4.3	88
156	Effect of Ga incorporation on the structure and Li ion conductivity of La <sub>3</sub> Zr <sub>2</sub> Li <sub>7</sub> O <sub>12</sub> . <i>Dalton Transactions</i> , <b>2012</b> , 41, 12048-53	4.3	76
155	Fluorination of perovskite-related SrFeO <sub>3</sub> $\square$ <i>Solid State Communications</i> , <b>2005</b> , 134, 621-624	1.6	72
154	Atomic-scale mechanistic features of oxide ion conduction in apatite-type germanates. <i>Chemical Communications</i> , <b>2008</b> , 715-7	5.8	70

153	Synthesis and conductivities of the apatite-type systems, $\text{La}_{9.33+x}\text{Si}_6\text{M}_y\text{O}_{26+z}$ ( $\text{M}=\text{Co}, \text{Fe}, \text{Mn}$ ) and $\text{La}_8\text{Mn}_2\text{Si}_6\text{O}_{26}$ . <i>Ionics</i> , <b>2002</b> , 8, 149-154	2.7	70
152	Cation ordering in Li containing garnets: synthesis and structural characterisation of the tetragonal system, $\text{Li}_7\text{La}_3\text{Sn}_2\text{O}_{12}$ . <i>Dalton Transactions</i> , <b>2009</b> , 5177-81	4.3	68
151	A comparison of the effect of rare earth vs Si site doping on the conductivities of apatite-type rare earth silicates. <i>Journal of Solid State Electrochemistry</i> , <b>2006</b> , 10, 562-568	2.6	67
150	Effect of oxygen content on the $^{29}\text{Si}$ NMR, Raman spectra and oxide ion conductivity of the apatite series, $\text{La}_{8+x}\text{Sr}_{2-x}(\text{SiO}_4)_6\text{O}_{2+x/2}$ . <i>Dalton Transactions</i> , <b>2008</b> , 5296-301	4.3	57
149	Oxyanion doping strategies to enhance the ionic conductivity in $\text{Ba}_2\text{In}_2\text{O}_5$ . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 874-879		54
148	Neutron diffraction and atomistic simulation studies of Mg doped apatite-type oxide ion conductors. <i>Faraday Discussions</i> , <b>2007</b> , 134, 181-94; discussion 215-33, 415-9	3.6	50
147	Synthesis and structural determination of the new oxide fluoride $\text{BaFeO}_2\text{F}$ . <i>Solid State Communications</i> , <b>2007</b> , 141, 467-470	1.6	50
146	Facile proton conduction in $\text{H}^+/\text{Li}^+$ ion-exchanged garnet-type fast Li-ion conducting $\text{Li}_5\text{La}_3\text{Nb}_2\text{O}_{12}$ . <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13469	13	49
145	Oxygen defects and novel transport mechanisms in apatite ionic conductors: combined $^{17}\text{O}$ NMR and modeling studies. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9328-33	16.4	48
144	Topochemical modifications of mixed metal oxide compounds by low-temperature fluorination routes. <i>Reviews in Inorganic Chemistry</i> , <b>2013</b> , 33, 105-117	2.4	46
143	Investigation into the effect of Si doping on the performance of $\text{SrFeO}_3\text{F}$ SOFC electrode materials. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11834	13	46
142	An investigation of the synthesis and conductivities of La-Ge-O based systems. <i>Ionics</i> , <b>2002</b> , 8, 155-160	2.7	45
141	Synthesis and structure of the new oxide fluoride $\text{Sr}_2\text{TiO}_3\text{F}_2$ from the low temperature fluorination of $\text{Sr}_2\text{TiO}_4$ : an example of a staged fluorine substitution/insertion reaction. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 291-294		45
140	Synthesis of silicon doped $\text{SrMO}_3$ ( $\text{M} = \text{Mn}, \text{Co}$ ): stabilization of the cubic perovskite and enhancement in conductivity. <i>Dalton Transactions</i> , <b>2011</b> , 40, 5599-603	4.3	43
139	Structure and magnetic properties of the cubic oxide fluoride $\text{BaFeO}_2\text{F}$ . <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 1361-1366	3.3	42
138	Synthesis and characterisation of the $\text{Sr}_x\text{Ba}_{1-x}\text{FeO}_3\text{F}$ -system and the fluorinated phases $\text{Sr}_x\text{Ba}_{1-x}\text{FeO}_2\text{F}$ . <i>Solid State Sciences</i> , <b>2010</b> , 12, 1455-1463	3.4	42
137	Synthesis and characterisation of oxyanion-doped manganites for potential application as SOFC cathodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8287		40
136	Enhancement of the conductivity of $\text{Ba}_2\text{In}_2\text{O}_5$ through phosphate doping. <i>Chemical Communications</i> , <b>2010</b> , 46, 4613-5	5.8	40

- 135 A neutron diffraction study of the system  $Y_{1-y}Ca_yBa_{2-y}La_yCu_3O_{7-x}$ . *Superconductor Science and Technology*, **1992**, 5, 205-209 3.1 38
- 134 Hydrogen storage and ionic mobility in amide-halide systems. *Faraday Discussions*, **2011**, 151, 271-84; discussion 285-95 3.6 37
- 133 Crystallographic and magnetic structure of the perovskite-type compound  $BaFeO_{2.5}$ : unrivaled complexity in oxygen vacancy ordering. *Inorganic Chemistry*, **2014**, 53, 5911-21 5.1 36
- 132 The structural effects of Na and Ca substitutions on the Y site in  $YBa_2Cu_3O_{7-x}$ . *Superconductor Science and Technology*, **1989**, 2, 5-8 3.1 36
- 131 Synthesis and structure of  $Ba_4CaCu_2.24O_{6.96}(CO_3)_{0.5}$ , a perovskite containing carbonate anions, and related phases. *Journal of Materials Chemistry*, **1991**, 1, 17 36
- 130 Magnetic order in perovskite-related  $SrFeO_2F$ . *Journal of Physics Condensed Matter*, **2008**, 20, 215207 1.8 35
- 129 Development of  $CaMn_{1-x}Ru_xO_3$  ( $x = 0$  and  $0.15$ ) oxygen reduction catalysts for use in low temperature electrochemical devices containing alkaline electrolytes: ex situ testing using the rotating ring-disk electrode voltammetry method. *Journal of Materials Chemistry A*, **2014**, 2, 3047-3056 13 34
- 128 Silicon Doping in  $Ba_2In_2O_5$ : Example of a Beneficial Effect of Silicon Incorporation on Oxide Ion/Proton Conductivity. *Chemistry of Materials*, **2010**, 22, 5945-5948 9.6 34
- 127 Structural studies of apatite-type oxide ion conductors doped with cobalt. *Dalton Transactions*, **2005**, 1273-80 4.3 34
- 126 A neutron diffraction study and mode analysis of compounds of the system  $La_{1-x}Sr_xFeO_{3-x}$  ( $x=1, 0.8, 0.5, 0.2$ ) and an investigation of their magnetic properties. *Journal of Solid State Chemistry*, **2013**, 206, 158-169 3.3 33
- 125 Protonic defects and water incorporation in Si and Ge-based apatite ionic conductors. *Journal of Materials Chemistry*, **2010**, 20, 2766 33
- 124 Large Nonclassical Electrostriction in (Y, Nb)-Stabilized  $Bi_2O_3$ . *Advanced Functional Materials*, **2016**, 26, 1138-1142 15.6 33
- 123 Synthesis of oxyanion-doped barium strontium cobalt ferrites: Stabilization of the cubic perovskite and enhancement in conductivity. *Journal of Power Sources*, **2012**, 209, 180-183 8.9 32
- 122 Oxyanions in perovskites: from superconductors to solid oxide fuel cells. *Dalton Transactions*, **2015**, 44, 10559-69 4.3 31
- 121 Strategies for the Optimisation of the Oxide Ion Conductivities of Apatite-Type Germanates. *Fuel Cells*, **2011**, 11, 10-16 2.9 31
- 120 Synthesis and electrical characterisation of the perovskite niobate-titanates,  $Sr_{1-x/2}Ti_{1-x/2}Nb_xO_{3-x}$ . *Ionics*, **1996**, 2, 213-216 2.7 30
- 119  $La(1-x)Ba(1+x)GaO(4-x/2)$ : a novel high temperature proton conductor. *Chemical Communications*, **2003**, 2694-5 5.8 29
- 118 Synthesis and structure of the calcium copper oxyfluoride,  $Ca_2CuO_2F_2 \cdot nH_2O$ . *Journal of Materials Chemistry*, **1995**, 5, 913 29

117	Synthesis, structural and magnetic characterisation of the fully fluorinated compound $6\text{H}\text{BaFeO}_2\text{F}$ . <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 198, 262-269	3.3	28
116	Raman spectroscopy studies of apatite-type germanate oxide ion conductors: correlation with interstitial oxide ion location and conduction. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2170		28
115	Apatite germanates doped with tungsten: synthesis, structure, and conductivity. <i>Dalton Transactions</i> , <b>2011</b> , 40, 3903-8	4.3	28
114	Neutron diffraction structural study of the apatite-type oxide ion conductor, $\text{La}_8\text{Y}_2\text{Ge}_6\text{O}_{27}$ : location of the interstitial oxide ion site. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7955		27
113	Interaction of $(\text{La}_{1-x}\text{Sr}_x)_2\text{MnO}_3\text{Zr}_2\text{Y}_2\text{O}_{12}$ cathodes and $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_3$ current collecting layers for solid oxide fuel cell application. <i>Solid State Ionics</i> , <b>2008</b> , 179, 732-739	3.3	27
112	Synthesis and Characterization of Oxyanion-Doped Cobalt Containing Perovskites. <i>Fuel Cells</i> , <b>2012</b> , 12, 1056-1063	2.9	26
111	Solid-State Materials for Clean Energy: Insights from Atomic-Scale Modeling. <i>MRS Bulletin</i> , <b>2009</b> , 34, 935-941	3.4	25
110	Synthesis and structure of the new oxide fluoride $\text{Ba}_2\text{ZrO}_3\text{F}_2 \cdot x\text{H}_2\text{O}$ ( $x \approx 0.5$ ). <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 2035-2038		25
109	Effect of Ba and Bi doping on the synthesis and sintering of Ge-based apatite phases. <i>Journal of Solid State Electrochemistry</i> , <b>2004</b> , 8, 668	2.6	24
108	Oxygen Defects and Novel Transport Mechanisms in Apatite Ionic Conductors: Combined $^{17}\text{O}$ NMR and Modeling Studies. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 9500-9505	3.6	23
107	Investigation into the effect of Si doping on the cell symmetry and performance of $\text{Sr}_{1-x}\text{Ca}_x\text{FeO}_3$ SOFC cathode materials. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 213, 132-137	3.3	22
106	Low temperature fluorination of $\text{Sr}_3\text{Fe}_2\text{O}_7$ with polyvinylidene fluoride: An X-ray powder diffraction and Mössbauer spectroscopy study. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 186, 195-203	3.3	22
105	Analysis of oxyanion ( $\text{BO}_3$ , $\text{CO}_2$ , $\text{SO}_2$ , $\text{PO}_3$ , $\text{SeO}_4$ ) substitution in Y123 compounds studied by X-ray photoelectron spectroscopy. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1996</b> , 9, 97-100		22
104	Introducing a large polar tetragonal distortion into Ba-doped $\text{BiFeO}_3$ by low-temperature fluorination. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12572-83	5.1	21
103	Synthesis, structural and magnetic characterisation of the fluorinated compound $15\text{R-BaFeO}_2\text{F}$ . <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 203, 218-226	3.3	20
102	An investigation of the high temperature reaction between the apatite oxide ion conductor $\text{La}_9.33\text{Si}_6\text{O}_{26}$ and $\text{NH}_3$ . <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 749-754		20
101	Thermochemical $\text{CO}_2$ splitting using double perovskite-type $\text{Ba}_2\text{Ca}_{0.66}\text{Nb}_{1.34}\text{Fe}_x\text{O}_6$ . <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6874-6883	13	19
100	Topochemical Fluorination of $\text{LaNiO}$ : Unprecedented Ordering of Oxide and Fluoride Ions in $\text{LaNiOF}$ . <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6549-6560	5.1	19

- 99 LaNi<sub>0.6</sub>Co<sub>0.4</sub>O<sub>3</sub> dip-coated on FeCr mesh as a composite cathode contact material on intermediate solid oxide fuel cells. *Journal of Power Sources*, **2014**, 269, 509-519 8.9 19
- 98 Synthesis, conductivity and structural aspects of Nd<sub>3</sub>Zr<sub>2</sub>Li<sub>7-8x</sub>Al<sub>x</sub>O<sub>12</sub>. *Journal of Materials Chemistry A*, **2013**, 1, 14013 13 19
- 97 Fluorination of the Ruddlesden-Popper type cuprates, Ln<sub>2</sub>A<sub>1+x</sub>Cu<sub>2</sub>O<sub>6</sub> (Ln=La, Nd; A=Ca, Sr). *Journal of Materials Chemistry*, **1997**, 7, 2077-2083 19
- 96 Anisotropic oxide ion conduction in melilite intermediate temperature electrolytes. *Journal of Materials Chemistry A*, **2015**, 3, 3091-3096 13 18
- 95 Insight into the local structure of barium indate oxide-ion conductors: an X-ray total scattering study. *Dalton Transactions*, **2012**, 41, 50-3 4.3 18
- 94 Synthesis and characterization of proton conducting oxyanion doped Ba<sub>2</sub>Sc<sub>2</sub>O<sub>5</sub>. *Dalton Transactions*, **2012**, 41, 261-6 4.3 18
- 93 Crystallographic Correlations with Anisotropic Oxide Ion Conduction in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. *Chemistry of Materials*, **2013**, 25, 1109-1120 9.6 18
- 92 Combined Experimental and Computational Study of Ce-Doped La<sub>3</sub>Zr<sub>2</sub>Li<sub>7</sub>O<sub>12</sub> Garnet Solid-State Electrolyte. *Chemistry of Materials*, **2020**, 32, 215-223 9.6 18
- 91 Evaluation of using protective/conductive coating on Fe-22Cr mesh as a composite cathode contact material for intermediate solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2015**, 40, 4804-4818 6.7 17
- 90 Investigation into the effect of Si doping on the performance of Sr(1-y)Ca(y)MnO(3- $\delta$ ) SOFC cathode materials. *Dalton Transactions*, **2013**, 42, 5421-9 4.3 16
- 89 Synthesis, structural characterisation and proton conduction of two new hydrated phases of barium ferrite BaFeO<sub>2.5</sub>(OH)<sub>2x</sub>. *Journal of Materials Chemistry A*, **2016**, 4, 3415-3430 13 15
- 88 Ionic Conductivity, Structure and Oxide Ion Migration Pathway in Fluorite-Based Bi<sub>8</sub>La<sub>10</sub>O<sub>27</sub>. *Chemistry of Materials*, **2009**, 21, 4661-4668 9.6 15
- 87 Crystal chemistry and optimization of conductivity in 2A, 2M and 2H alkaline earth lanthanum germanate oxyapatite electrolyte polymorphs. *Solid State Ionics*, **2010**, 181, 1189-1196 3.3 15
- 86 Structure and Lithium-Ion Dynamics in Fluoride-Doped Cubic Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> (LLZO) Garnet for Li Solid-State Battery Applications. *Journal of Physical Chemistry C*, **2018**, 122, 27811-27819 3.8 15
- 85 Pseudomorphic 2A $\rightarrow$  2M $\rightarrow$  2H phase transitions in lanthanum strontium germanate electrolyte apatites. *Dalton Transactions*, **2009**, 8280-91 4.3 14
- 84 Preparation of high-oxygen-content apatite silicates through Ti-doping: effect of Ti-doping on the oxide ion conductivity. *Journal of Materials Chemistry*, **2009**, 19, 5003 14
- 83 Fluorination of perovskite-related phases of composition La<sub>1-x</sub>Sr<sub>x</sub>Fe<sub>1-y</sub>Co<sub>y</sub>O<sub>3- $\delta$</sub> . *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2032-2036 3.9 14
- 82 Hydrothermal synthesis, structure investigation, and oxide ion conductivity of mixed Si/Ge-based apatite-type phases. *Inorganic Chemistry*, **2014**, 53, 4803-12 5.1 13



81	Synthesis and characterisation of the perovskite-related cuprate phases $YSr_2Cu_2MO_{7+y}$ (M = Co, Fe) for potential use as solid oxide fuel cell cathode materials. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2321		13
80	Low temperature synthesis of garnet solid state electrolytes: Implications on aluminium incorporation in $Li_7La_3Zr_2O_{12}$ . <i>Solid State Ionics</i> , <b>2020</b> , 350, 115317	3.3	12
79	Interstitial Oxide Ion Distribution and Transport Mechanism in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4468-83	16.4	12
78	Novel Aspects of the Conduction Mechanisms of Electrolytes Containing Tetrahedral Moieties. <i>Fuel Cells</i> , <b>2011</b> , 11, 38-43	2.9	12
77	Combined experimental and modelling studies of proton conducting $La_{1-x}Ba_{1+x}GaO_{4-x/2}$ : proton location and dopant site selectivity. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10412		12
76	Fluorination of perovskite-related phases of composition $SrFe_{1-x}Sn_xO_{3-x}$ . <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 256001	1.8	12
75	Laser machining of $LaNi_{0.6}M_{0.4}O_3$ (M: Co, Fe) dip-coated on a Fe <sub>2</sub> Cr mesh material to obtain a new contact coating for SOFC: Interaction between Crofer22APU interconnect and $La_{0.6}Sr_{0.4}FeO_3$ cathode. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 8407-8418	6.7	11
74	Synthesis and structural investigation of a new oxide fluoride of composition $Ba_2SnO_{2.5}F_{3-x}H_2O$ ( $x=0.5$ ). <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 2185-2190	3.3	11
73	$La_2MgGeO_6$ : a novel Ge based perovskite synthesised under ambient pressure. <i>Chemical Communications</i> , <b>2002</b> , 1776-7	5.8	11
72	Reply to B structural and magnetic behavior of the cubic oxyfluoride $SrFeO_2F$ studied by neutron diffraction. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 226, 326-331	3.3	10
71	Battery and solid oxide fuel cell materials. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2012</b> , 108, 424		10
70	Local structure investigation of oxide ion and proton defects in Ge-apatites by pair distribution function analysis. <i>Chemical Communications</i> , <b>2011</b> , 47, 250-2	5.8	10
69	X-ray emission and photoelectron spectra, and the location of fluorine atoms in strontium and calcium copper oxyfluorides. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 4847-4854	1.8	10
68	Powder neutron diffraction study of the nasicon-related phases $NaxMIIxMIII_2(SO_4)_3(SrO_4)_y$ : MII= Mg, MIII= Fe, In. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1469-1473		10
67	Neutron diffraction structural study of the nasicon-related phases $LixMIIxMIII_2(SO_4)_3(SrO_4)_y$ (MII= Mg, Ni, Zn; MIII= Al, Cr). <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1463-1467		10
66	Topochemical Reduction of $La_2NiO_3F_2$ : The First Ni-Based Ruddlesden-Popper $n = 1$ T'-Type Structure and the Impact of Reduction on Magnetic Ordering. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3160-3179	9.6	9
65	Exploring the mixed transport properties of sulfur(VI)-doped $Ba_2In_2O_5$ for intermediate-temperature electrochemical applications. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11069-11078	1.3	9
64	Effect of tri- and tetravalent metal doping on the electrochemical properties of lanthanum tungstate proton conductors. <i>Dalton Transactions</i> , <b>2016</b> , 45, 3130-8	4.3	9

- 63 Synthesis, structure and electrical conductivity of a new perovskite type barium cobaltate BaCoO(OH). *Dalton Transactions*, **2018**, 47, 11136-11145 4.3 9
- 62 Origami: a versatile modeling system for visualising chemical structure and exploring molecular function. *Chemistry Education Research and Practice*, **2010**, 11, 43-47 2.1 9
- 61 Cation Distribution and Magnetic Interactions in Substituted Iron-Containing Garnets: Characterization by Iron-57 Mössbauer Spectroscopy. *Journal of Solid State Chemistry*, **1996**, 122, 118-129<sup>3.3</sup> 9
- 60 Neutron diffraction and multinuclear solid state NMR investigation into the structures of oxide ion conducting La<sub>9.6</sub>Si<sub>6</sub>O<sub>26.4</sub> and La<sub>8</sub>Sr<sub>2</sub>Si<sub>6</sub>O<sub>26</sub>, and their hydrated phases. *Dalton Transactions*, **2016**, 45, 121-33 4.3 8
- 59 Battery and solid oxide fuel cell materials. *Annual Reports on the Progress of Chemistry Section A*, **2013**, 109, 396 8
- 58 Topochemical Fluorination of = 2 Ruddlesden-Popper Type SrTiO to SrTiOF and Its Reductive Defluorination. *Inorganic Chemistry*, **2020**, 59, 1153-1163 5.1 8
- 57 Designing a facile low cost synthesis strategy for the Na-V-S-O systems, NaV(SO), NaV(SO) and NaVO(SO). *Dalton Transactions*, **2018**, 47, 13535-13542 4.3 8
- 56 Evaluation of the effect of site substitution of Pr doping in the lithium garnet system LiLaNbO. *Dalton Transactions*, **2020**, 49, 10349-10359 4.3 7
- 55 Structural study of the apatite Nd<sub>8</sub>Sr<sub>2</sub>Si<sub>6</sub>O<sub>26</sub> by Laue neutron diffraction and single-crystal Raman spectroscopy. *Inorganic Chemistry*, **2014**, 53, 9416-23 5.1 7
- 54 Investigation into the Effect of Sulfate and Borate Incorporation on the Structure and Properties of SrFeO<sub>3- $\delta$</sub>  Crystals, **2017**, 7, 169 2.3 7
- 53 Crystal Chemical Analysis of Nd<sub>9.33</sub>Si<sub>6</sub>O<sub>26</sub> and Nd<sub>8</sub>Sr<sub>2</sub>Si<sub>6</sub>O<sub>26</sub> Apatite Electrolytes Using Aberration-Corrected Scanning Transmission Electron Microscopy and Impedance Spectroscopy. *Chemistry of Materials*, **2015**, 27, 1217-1222 9.6 7
- 52 Degradation induced lattice anchoring self-passivation in CsPbI<sub>3</sub>Br<sub>x</sub>. *Journal of Materials Chemistry A*, **2020**, 8, 9963-9969 13 6
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