

# Peter Bruce

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

369 papers	66,359 citations	101 h-index	255 g-index
408 ext. papers	71,794 ext. citations	11.9 avg, IF	8.13 L-index

#	Paper	IF	Citations
369	Detection of trapped molecular O <sub>2</sub> in a charged Li-rich cathode by Neutron PDF. <i>Energy and Environmental Science</i> , <b>2022</b> , 15, 376-383	35.4	5
368	Singlet oxygen and dioxygen bond cleavage in the aprotic lithium-oxygen battery. <i>Joule</i> , <b>2022</b> , 6, 185-192	27.8	9
367	Solid-state lithium battery cathodes operating at low pressures. <i>Joule</i> , <b>2022</b> , 6, 636-646	27.8	4
366	Interfaces between Ceramic and Polymer Electrolytes: A Comparison of Oxide and Sulfide Solid Electrolytes for Hybrid Solid-State Batteries. <i>Inorganics</i> , <b>2022</b> , 10, 60	2.9	1
365	Direct imaging of oxygen shifts associated with the oxygen redox of Li-rich layered oxides. <i>Joule</i> , <b>2022</b> ,	27.8	1
364	Achieving Ultra-High Rate Planar and Dendrite-Free Zinc Electroplating for Aqueous Zinc Battery Anodes.. <i>Advanced Materials</i> , <b>2022</b> , e2202552	24	8
363	Carbon-emcoating architecture boosts lithium storage of Nb <sub>2</sub> O <sub>5</sub> . <i>Science China Materials</i> , <b>2021</b> , 64, 1071-1086	17.1	0
362	The role of O <sub>2</sub> in O-redox cathodes for Li-ion batteries. <i>Nature Energy</i> , <b>2021</b> , 6, 781-789	62.3	48
361	Visualizing plating-induced cracking in lithium-anode solid-electrolyte cells. <i>Nature Materials</i> , <b>2021</b> , 20, 1121-1129	27	74
360	Temperature Dependence of Lithium Anode Voiding in Argyrodite Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 22708-22716	9.5	10
359	Bulk O <sub>2</sub> formation and Mg displacement explain O-redox in Na <sub>0.67</sub> Mn <sub>0.72</sub> Mg <sub>0.28</sub> O <sub>2</sub> . <i>Joule</i> , <b>2021</b> , 5, 1267-1280	27.8	11
358	Covalency does not suppress O formation in 4d and 5d Li-rich O-redox cathodes. <i>Nature Communications</i> , <b>2021</b> , 12, 2975	17.4	13
357	The Role of Ni and Co in Suppressing O-Loss in Li-Rich Layered Cathodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2003660	15.6	22
356	Imaging Sodium Dendrite Growth in All-Solid-State Sodium Batteries Using Na T-Weighted Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2110-2115	16.4	12
355	Imaging Sodium Dendrite Growth in All-Solid-State Sodium Batteries Using <sup>23</sup> Na T <sub>2</sub> -Weighted Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2138-2143	3.6	1
354	Revealing the Role of Fluoride-Rich Battery Electrode Interphases by Operando Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003118	21.8	27
353	Direct Imaging of Oxygen Sub-lattice Deformation in Li-rich Cathode Material Using Electron Ptychography. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2724-2726	0.5	

352	Li <sub>2</sub> NiO <sub>2</sub> F a New Oxyfluoride Disordered Rocksalt Cathode Material. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 080521	3.9	0
351	Lithiation phase behaviors of metal oxide anodes and extra capacities. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100543	6.1	0
350	P2Na <sub>2</sub> /3Mg <sub>1</sub> /4Mn <sub>7</sub> /12Co <sub>1</sub> /6O <sub>2</sub> cathode material based on oxygen redox activity with improved first-cycle voltage hysteresis. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230104	8.9	1
349	Non-equilibrium metal oxides via reconversion chemistry in lithium-ion batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 561	17.4	9
348	Redox Chemistry and the Role of Trapped Molecular O in Li-Rich Disordered Rocksalt Oxyfluoride Cathodes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 21799-21809	16.4	34
347	Current-Density-Dependent Electroplating in Ca Electrolytes: From Globules to Dendrites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2283-2290	20.1	21
346	Lithium-Oxygen Batteries and Related Systems: Potential, Status, and Future. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6626-6683	68.1	279
345	Observation of Interfacial Degradation of Li <sub>6</sub> PS <sub>5</sub> Cl against Lithium Metal and LiCoO <sub>2</sub> via In Situ Electrochemical Raman Microscopy. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 647-652	5.6	36
344	Single source precursor route to iron sulfide nanomaterials for energy storage. <i>Chemical Physics Letters</i> , <b>2020</b> , 739, 136993	2.5	4
343	2020 roadmap on solid-state batteries. <i>JPhys Energy</i> , <b>2020</b> , 2, 032008	4.9	31
342	The Interface between Li <sub>6.5</sub> La <sub>3</sub> Zr <sub>1.5</sub> Ta <sub>0.5</sub> O <sub>12</sub> and Liquid Electrolyte. <i>Joule</i> , <b>2020</b> , 4, 101-108	27.8	45
341	Sodium/Na <sub>2</sub> O-Alumina Interface: Effect of Pressure on Voids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 678-685	9.5	45
340	Superstructure control of first-cycle voltage hysteresis in oxygen-redox cathodes. <i>Nature</i> , <b>2020</b> , 577, 502-508	50.4	222
339	First-cycle voltage hysteresis in Li-rich 3d cathodes associated with molecular O <sub>2</sub> trapped in the bulk. <i>Nature Energy</i> , <b>2020</b> , 5, 777-785	62.3	117
338	Synchrotron X-ray quantitative evaluation of transient deformation and damage phenomena in a single nickel-rich cathode particle. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3556-3566	35.4	24
337	Rational Design and Mechanical Understanding of Three-Dimensional Macro-/Mesoporous Silicon Lithium-Ion Battery Anodes with a Tunable Pore Size and Wall Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 43785-43797	9.5	10
336	Charging Mechanism of Li <sub>2</sub> MnO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3733-3740	9.6	32
335	Nature of the $\delta$ -Phase in layered Na-ion battery cathodes. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2223-2232	35.4	79

334	Enhanced Li-O <sub>2</sub> Battery Performance in a Binary Liquid Teflon and Dual Redox Mediators. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800645	6.8	10
333	Li NMR Chemical Shift Imaging To Detect Microstructural Growth of Lithium in All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2762-2769	9.6	70
332	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3293-3300	9.6	90
331	Operando Liquid-electrochemical TEM for Monitoring Growth and Dissolution Steps of NaO <sub>2</sub> Cubes in Na-O <sub>2</sub> Battery. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1438-1439	0.5	1
330	Dental Resin Monomer Enables Unique NbO <sub>2</sub> /Carbon Lithium-Ion Battery Negative Electrode with Exceptional Performance. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904961	15.6	18
329	Critical stripping current leads to dendrite formation on plating in lithium anode solid electrolyte cells. <i>Nature Materials</i> , <b>2019</b> , 18, 1105-1111	27	325
328	Quantifying oxygen distortions in lithium-rich transition-metal-oxide cathodes using ABF STEM. <i>Ultramicroscopy</i> , <b>2019</b> , 210, 112914	3.1	5
327	Is Nitrogen Present in Li <sub>3</sub> NP <sub>2</sub> S <sub>5</sub> Solid Electrolytes Produced by Ball Milling?. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9993-10001	9.6	6
326	Depth-dependent oxygen redox activity in lithium-rich layered oxide cathodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25355-25368	13	31
325	A new approach to very high lithium salt content quasi-solid state electrolytes for lithium metal batteries using plastic crystals. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25389-25398	13	15
324	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2437-2442	16.4	81
323	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2459-2464	3.6	16
322	Lithium manganese oxyfluoride as a new cathode material exhibiting oxygen redox. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 926-932	35.4	110
321	Direct transformation of bijels into bicontinuous composite electrolytes using a pre-mix containing lithium salt. <i>Materials Horizons</i> , <b>2018</b> , 5, 499-505	14.4	16
320	Kinetics of lithium peroxide oxidation by redox mediators and consequences for the lithium-oxygen cell. <i>Nature Communications</i> , <b>2018</b> , 9, 767	17.4	70
319	Identification and characterisation of high energy density P2-type Na <sub>2</sub> /3[Ni <sub>1</sub> /3V <sub>2</sub> /2Mn <sub>2</sub> /3V <sub>2</sub> /2Fe <sub>y</sub> ]O <sub>2</sub> compounds for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5271-5275	13	18
318	Operando Monitoring of the Solution-Mediated Discharge and Charge Processes in a Na-O Battery Using Liquid-Electrochemical Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2018</b> , 18, 1280-1289	11.5	61
317	Oxygen redox chemistry without excess alkali-metal ions in Na[MgMn]O. <i>Nature Chemistry</i> , <b>2018</b> , 10, 288-295	17.6	281

316	Bonding Insights from Structural and Spectroscopic Comparisons of {SnW} and {TiW} Alkoxido- and Aryloxido-Substituted Lindqvist Polyoxometalates. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2750-2757	4.8	1
315	High capacity surface route discharge at the potassium-O <sub>2</sub> electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 819, 542-546	4.1	19
314	High voltage structural evolution and enhanced Na-ion diffusion in P2-Na <sub>2</sub> /3Ni <sub>1</sub> /3Mg <sub>x</sub> Mn <sub>2</sub> /3O <sub>2</sub> (0 ≤ x ≤ 0.2) cathodes from diffraction, electrochemical and ab initio studies. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1470-1479	35.4	100
313	The Role of the Electrode Surface in Na-Air Batteries: Insights in Electrochemical Product Formation and Chemical Growth of NaO <sub>2</sub> . <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701581	21.8	21
312	Degradation Mechanisms at the LiGePS/LiCoO Cathode Interface in an All-Solid-State Lithium-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22226-22236	9.5	158
311	All-Solid-State Batteries and their Remaining Challenges. <i>Johnson Matthey Technology Review</i> , <b>2018</b> , 62, 177-180	2.5	19
310	Plating and stripping calcium in an organic electrolyte. <i>Nature Materials</i> , <b>2018</b> , 17, 16-20	27	189
309	Hybrid electrolytes with 3D bicontinuous ordered ceramic and polymer microchannels for all-solid-state batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 185-201	35.4	176
308	Low-Dose Aberration-Free Imaging of Li-Rich Cathode Materials at Various States of Charge Using Electron Ptychography. <i>Nano Letters</i> , <b>2018</b> , 18, 6850-6855	11.5	34
307	Evidence of Enhanced Ion Transport in Li-Rich Silicate Intercalation Materials. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601043	21.8	30
306	Phenol-Catalyzed Discharge in the Aprotic Lithium-Oxygen Battery. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6539-6543	16.4	43
305	LiO: Cryosynthesis and Chemical/Electrochemical Reactivities. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 2334-2338	6.4	55
304	Phenol-Catalyzed Discharge in the Aprotic Lithium-Oxygen Battery. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6639-6643	16.4	43
303	Degradation diagnostics for lithium ion cells. <i>Journal of Power Sources</i> , <b>2017</b> , 341, 373-386	8.9	472
302	Understanding of the Electrogenerated Bulk Electrolyte Species in Sodium-Containing Ionic Liquid Electrolytes During the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23307-23316	33.8	15
301	Degradation Diagnostics for Commercial Lithium-Ion Cells Tested at 0°C. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2644-A2653	3.9	16
300	A rechargeable lithium-oxygen battery with dual mediators stabilizing the carbon cathode. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	178
299	Lithiation Thermodynamics and Kinetics of the TiO (B) Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13330-13341	16.4	33

- 298 Role of Electrolyte Anions in the NaO<sub>2</sub> Battery: Implications for NaO<sub>2</sub> Solvation and the Stability of the Sodium Solid Electrolyte Interphase in Glyme Ethers. *Chemistry of Materials*, **2017**, 29, 6066-6075 9.6 99
- 297 Mechanisms of Lithium Intercalation and Conversion Processes in Organic-Inorganic Halide Perovskites. *ACS Energy Letters*, **2017**, 2, 1818-1824 20.1 83
- 296 Using Advanced STEM Techniques to Unravel Key Issues in the Development of Next-Generation Nanostructures for Energy Storage. *Microscopy and Microanalysis*, **2017**, 23, 1698-1699 0.5
- 295 High Capacity NaO<sub>2</sub> Batteries: Key Parameters for Solution-Mediated Discharge. *Journal of Physical Chemistry C*, **2016**, 120, 20068-20076 3.8 83
- 294 Structurally stable Mg-doped P2-Na<sub>2</sub>/3Mn<sub>1/3</sub>Mg<sub>y</sub>O<sub>2</sub> sodium-ion battery cathodes with high rate performance: insights from electrochemical, NMR and diffraction studies. *Energy and Environmental Science*, **2016**, 9, 3240-3251 35.4 200
- 293 Advances in understanding mechanisms underpinning lithium-air batteries. *Nature Energy*, **2016**, 1, 62.3 834
- 292 One-Pot Synthesis of Lithium-Rich Cathode Material with Hierarchical Morphology. *Nano Letters*, **2016**, 16, 7503-7508 11.5 37
- 291 Structural and chemical characterisation of novel FeS nanostructures for energy storage synthesised using a single-source precursor **2016**, 508-509
- 290 High Voltage Mg-Doped Na<sub>0.67</sub>Ni<sub>0.33</sub>Mg<sub>x</sub>Mn<sub>0.7</sub>O<sub>2</sub> (x = 0.05, 0.1) Na-Ion Cathodes with Enhanced Stability and Rate Capability. *Chemistry of Materials*, **2016**, 28, 5087-5094 9.6 171
- 289 Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. *Nature Chemistry*, **2016**, 8, 684-91 17.6 667
- 288 Size and shape of graphene layers in commercial carbon blacks established by Debye refinement. *Journal of Applied Crystallography*, **2016**, 49, 24-30 3.8 7
- 287 Li(V<sub>0.5</sub>Ti<sub>0.5</sub>)S<sub>2</sub> as a 1 V lithium intercalation electrode. *Nature Communications*, **2016**, 7, 10898 17.4 22
- 286 Promoting solution phase discharge in Li-O<sub>2</sub> batteries containing weakly solvating electrolyte-solutions. *Nature Materials*, **2016**, 15, 882-8 27 349
- 285 Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode Li[Li<sub>0.2</sub>Ni<sub>0.2</sub>Mn<sub>0.6</sub>]O<sub>2</sub>. *Journal of the American Chemical Society*, **2016**, 138, 11211-8 16.4 205
- 284 In situ Fe K-edge X-ray absorption spectroscopy study during cycling of Li<sub>2</sub>FeSiO<sub>4</sub> and Li<sub>2.2</sub>Fe<sub>0.9</sub>SiO<sub>4</sub> Li ion battery materials. *Journal of Materials Chemistry A*, **2015**, 3, 7314-7322 13 19
- 283 The Morphology of TiO<sub>2</sub> (B) Nanoparticles. *Journal of the American Chemical Society*, **2015**, 137, 13612-236.4 42
- 282 Rate Dependent Performance Related to Crystal Structure Evolution of Na<sub>0.67</sub>Mn<sub>0.8</sub>Mg<sub>0.2</sub>O<sub>2</sub> in a Sodium-Ion Battery. *Chemistry of Materials*, **2015**, 27, 6976-6986 9.6 88
- 281 Crystalline Polymer Electrolytes. *Materials and Energy*, **2015**, 503-522

280	Unlocking the energy capabilities of micron-sized LiFePO <sub>4</sub> . <i>Nature Communications</i> , <b>2015</b> , 6, 7898	17.4	51
279	Review Manganese-Based P2-Type Transition Metal Oxides as Sodium-Ion Battery Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2589-A2604	3.9	297
278	A Parametric Open Circuit Voltage Model for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2271-A2280	3.9	67
277	Direct Detection of the Superoxide Anion as a Stable Intermediate in the Electroreduction of Oxygen in a Non-Aqueous Electrolyte Containing Phenol as a Proton Source. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8283-8286	3.6	19
276	Direct Detection of the Superoxide Anion as a Stable Intermediate in the Electroreduction of Oxygen in a Non-Aqueous Electrolyte Containing Phenol as a Proton Source. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8165-8	16.4	64
275	Minimally Invasive Insertion of Reference Electrodes into Commercial Lithium-Ion Pouch Cells. <i>ECS Electrochemistry Letters</i> , <b>2015</b> , 4, A145-A147		28
274	A Comprehensive Model for Non-Aqueous Lithium Air Batteries Involving Different Reaction Mechanisms. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A614-A621	3.9	66
273	Polymorphism in Li <sub>2</sub> MSiO <sub>4</sub> (M = Fe, Mn): A Variable Temperature Diffraction Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 1043-1049	1.3	10
272	The shape of TiO <sub>2</sub> B nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6306-12	16.4	29
271	The role of LiO <sub>2</sub> solubility in O <sub>2</sub> reduction in aprotic solvents and its consequences for Li-O <sub>2</sub> batteries. <i>Nature Chemistry</i> , <b>2014</b> , 6, 1091-9	17.6	764
270	Lithium-ion diffusion mechanisms in the battery anode material Li(1+x)V(1-x)O <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21114-8	3.6	50
269	Aprotic Li-O <sub>2</sub> Battery: Influence of Complexing Agents on Oxygen Reduction in an Aprotic Solvent. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3393-3401	3.8	33
268	NaMnO <sub>2</sub> : a high-performance cathode for sodium-ion batteries. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17243-8	16.4	277
267	Li ion dynamics in TiO <sub>2</sub> anode materials with an ordered hierarchical pore structure--insights from ex situ NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1894-901	3.6	24
266	Na <sub>0.67</sub> Mn <sub>1-x</sub> Mg <sub>x</sub> O <sub>2</sub> (0 ≤ x ≤ 0.2): a high capacity cathode for sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1387-1391	35.4	325
265	Materials challenges in rechargeable lithium-air batteries. <i>MRS Bulletin</i> , <b>2014</b> , 39, 443-452	3.2	127
264	Sulfone-Based Electrolytes for Nonaqueous Li-O <sub>2</sub> Batteries. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18892-18898	3.8	44
263	Environmental In Situ X-ray Absorption Spectroscopy Evaluation of Electrode Materials for Rechargeable Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 12617-12624	3.8	9



262	Synthesis of poly(ethylene oxide) approaching monodispersity. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6411-3	16.4	31
261	Synthesis of Poly(ethylene oxide) Approaching Monodispersity. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 6529-6536	16.4	5
260	Nonaqueous Electrolytes <b>2014</b> , 23-58		4
259	A stable cathode for the aprotic Li-O <sub>2</sub> battery. <i>Nature Materials</i> , <b>2013</b> , 12, 1050-6	27	617
258	The carbon electrode in nonaqueous Li-O <sub>2</sub> cells. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 494-500	16.4	1014
257	Nanostructured TiO <sub>2</sub> (B): the effect of size and shape on anode properties for Li-ion batteries. <i>Progress in Natural Science: Materials International</i> , <b>2013</b> , 23, 235-244	3.6	68
256	A solid with a hierarchical tetramodal micro-meso-macro pore size distribution. <i>Nature Communications</i> , <b>2013</b> , 4, 2015	17.4	73
255	Nanostructuring of $\beta$ -MnO <sub>2</sub> : The Important Role of Surface to Bulk Ion Migration. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 536-541	9.6	85
254	Charging a Li-O <sub>2</sub> battery using a redox mediator. <i>Nature Chemistry</i> , <b>2013</b> , 5, 489-94	17.6	675
253	Catalytic decomposition of N <sub>2</sub> O on ordered crystalline metal oxides. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 5093-103	1.3	29
252	Mesoporous LiFePO <sub>4</sub> as a cathode material for rechargeable lithium ion batteries. <i>Electrochemistry Communications</i> , <b>2012</b> , 17, 60-62	5.1	25
251	An alkoxido-tin-substituted polyoxometalate [(MeO)SnW <sub>5</sub> O <sub>18</sub> ] <sup>3-</sup> : the first member of a new family of reactive {SnW <sub>5</sub> } Lindqvist-type anions. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 59-62	4.8	13
250	Nanoparticulate TiO <sub>2</sub> (B): an anode for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2164-7	16.4	274
249	Li-O <sub>2</sub> battery with a dimethylformamide electrolyte. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7952-7	16.4	319
248	The pursuit of rechargeable non-aqueous lithium-oxygen battery cathodes. <i>Current Opinion in Solid State and Materials Science</i> , <b>2012</b> , 16, 178-185	12	91
247	Co <sub>3</sub> O <sub>4</sub> -KIT-6 composite catalysts: synthesis, characterization, and application in catalytic decomposition of N <sub>2</sub> O. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	9
246	Insights into Changes in Voltage and Structure of Li <sub>2</sub> FeSiO <sub>4</sub> Polymorphs for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2155-2161	9.6	119
245	Ordered mesoporous NiCoMnO <sub>4</sub> : synthesis and application in energy storage and catalytic decomposition of N <sub>2</sub> O. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15121		15



- 244 A reversible and higher-rate Li-O<sub>2</sub> battery. *Science*, **2012**, 337, 563-6 33.3 1559
- 243 Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. *Angewandte Chemie*, **2012**, 124, 10134-10166 3.6 176
- 242 Challenges facing lithium batteries and electrical double-layer capacitors. *Angewandte Chemie - International Edition*, **2012**, 51, 9994-10024 16.4 2149
- 241 Ex situ NMR Measurements of Li Dynamics in TiO<sub>2</sub> Anodes with an Ordered Hierarchical Pore Structure. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2012**, 638, 1607-1607 1.3
- 240 Lithium Insertion into Anatase Nanotubes. *Chemistry of Materials*, **2012**, 24, 4468-4476 9.6 98
- 239 Transformation of mesoporous Cu/Cu<sub>2</sub>O into porous Cu<sub>2</sub>O nanowires in ethanol. *CrystEngComm*, **2012**, 14, 2617 3.3 10
- 238 New Insights into the Crystal and Electronic Structures of Li<sub>1+x</sub>V<sub>1-x</sub>O<sub>2</sub> from Solid State NMR, Pair Distribution Function Analyses, and First Principles Calculations. *Chemistry of Materials*, **2012**, 24, 2880-2893 8.6 39
- 237 TiO<sub>2</sub>-(B) Nanotubes as Anodes for Lithium Batteries: Origin and Mitigation of Irreversible Capacity. *Advanced Energy Materials*, **2012**, 2, 322-327 21.8 214
- 236 Nanoparticulate TiO<sub>2</sub>(B): An Anode for Lithium-Ion Batteries. *Angewandte Chemie*, **2012**, 124, 2206-2209 3.6 86
- 235 Direct Detection of Discharge Products in Lithium-Oxygen Batteries by Solid-State NMR Spectroscopy. *Angewandte Chemie*, **2012**, 124, 8688-8691 3.6 27
- 234 Innenrücktitelbild: Direct Detection of Discharge Products in Lithium-Oxygen Batteries by Solid-State NMR Spectroscopy (Angew. Chem. 34/2012). *Angewandte Chemie*, **2012**, 124, 8795-8795 3.6
- 233 Direct detection of discharge products in lithium-oxygen batteries by solid-state NMR spectroscopy. *Angewandte Chemie - International Edition*, **2012**, 51, 8560-3 16.4 72
- 232 Ordered mesoporous metal oxides: synthesis and applications. *Chemical Society Reviews*, **2012**, 41, 4909-4937 38.5 604
- 231 Li-O<sub>2</sub> and Li-S batteries with high energy storage. *Nature Materials*, **2011**, 11, 19-29 27 6999
- 230 Metal-Air Batteries **2011**, 757-795 5
- 229 Solid-solid conversion of ordered crystalline mesoporous metal oxides under reducing atmosphere. *Journal of Materials Chemistry*, **2011**, 21, 9312 41
- 228 Lithium-air and lithium-sulfur batteries. *MRS Bulletin*, **2011**, 36, 506-512 3.2 255
- 227 Reactions in the rechargeable lithium-O<sub>2</sub> battery with alkyl carbonate electrolytes. *Journal of the American Chemical Society*, **2011**, 133, 8040-7 16.4 1049

226	Structure and lithium transport pathways in Li <sub>2</sub> FeSiO <sub>4</sub> cathodes for lithium batteries. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13031-5	16.4	253
225	Ordered mesoporous NiMn <sub>2</sub> O <sub>x</sub> with hematite or spinel structure: synthesis and application in electrochemical energy storage and catalytic conversion of N <sub>2</sub> O. <i>CrystEngComm</i> , <b>2011</b> , 13, 6955	3.3	26
224	The lithium-oxygen battery with ether-based electrolytes. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 8609-13	16.4	922
223	Polymorphism in Li <sub>2</sub> (Fe,Mn)SiO <sub>4</sub> : A combined diffraction and NMR study. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17823		53
222	The lithium intercalation process in the low-voltage lithium battery anode Li(1+x)V(1-x)O <sub>2</sub> . <i>Nature Materials</i> , <b>2011</b> , 10, 223-9	27	244
221	Silicate cathodes for lithium batteries: alternatives to phosphates?. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9811		287
220	Dependence of Li <sub>2</sub> FeSiO <sub>4</sub> electrochemistry on structure. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1263-5	16.4	185
219	Polymer Electrolytes <b>2011</b> , 1-31		21
218	Oxygen Reactions in a Non-Aqueous Li <sup>+</sup> Electrolyte. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6475-6479	3.6	118
217	Die Lithium-Sauerstoff-Batterie mit etherbasierten Elektrolyten. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 8768-8772	3.6	95
216	Oxygen reactions in a non-aqueous Li <sup>+</sup> electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6351-5	16.4	472
215	Activated Lithium-Metal-Oxides as Catalytic Electrodes for LiO <sub>2</sub> Cells. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, A64		63
214	Crystal structure of a new polymorph of Li <sub>2</sub> FeSiO <sub>4</sub> . <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7446-51	5.1	102
213	Lithium Coordination Sites in Li <sub>x</sub> TiO <sub>2</sub> (B): A Structural and Computational Study. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6426-6432	9.6	93
212	Influence of size on the rate of mesoporous electrodes for lithium batteries. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 996-1004	16.4	255
211	Polymorphism and structural defects in Li(2)FeSiO(4). <i>Dalton Transactions</i> , <b>2010</b> , 39, 6310-6	4.3	106
210	Nanostructured materials for advanced energy conversion and storage devices <b>2010</b> , 148-159		51
209	Energy materials to combat climate change. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 3225	3	1

208	Structural Polymorphism in Li <sub>2</sub> CoSiO <sub>4</sub> Intercalation Electrodes: A Combined Diffraction and NMR Study. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1892-1900	9.6	72
207	H <sub>2</sub> O Decomposition Reaction as Selecting Tool for Catalysts in LiD Cells. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, A180		93
206	Lithium intercalation into mesoporous anatase with an ordered 3D pore structure. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2570-4	16.4	204
205	Li diffusion properties of mixed conducting TiO <sub>2</sub> -B nanowires. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	29
204	Ordered Crystalline Mesoporous Oxides as Catalysts for CO Oxidation. <i>Catalysis Letters</i> , <b>2009</b> , 131, 146-154	15.4	137
203	Alkali metal crystalline polymer electrolytes. <i>Nature Materials</i> , <b>2009</b> , 8, 580-4	27	144
202	Tailoring the pore size/wall thickness of mesoporous transition metal oxides. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 121, 90-94	5.3	37
201	Infrared and Raman spectroscopy of nanostructured LT-LiCoO <sub>2</sub> cathodes for Li-ion rechargeable batteries. <i>Vibrational Spectroscopy</i> , <b>2009</b> , 51, 248-250	2.1	15
200	Diffusion in Confined Dimensions: Li <sup>+</sup> Transport in Mixed Conducting TiO <sub>2</sub> B Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4741-4744	3.8	41
199	Neutron Diffraction Study of Mesoporous and Bulk Hematite, $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4891-4899	9.6	115
198	Synthesis of tetrahedral LiFeO <sub>2</sub> and its behavior as a cathode in rechargeable lithium batteries. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3554-9	16.4	61
197	A Stoichiometric Nano-LiMn <sub>2</sub> O <sub>4</sub> Spinel Electrode Exhibiting High Power and Stable Cycling. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5557-5562	9.6	179
196	Synthesis of ordered mesoporous NiO with crystalline walls and a bimodal pore size distribution. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5262-6	16.4	256
195	Nano-LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> spinel: a high power electrode for Li-ion batteries. <i>Dalton Transactions</i> , <b>2008</b> , 5471-5	4.3	162
194	Structure and Conductivity of Small-Molecule Electrolytes [CH <sub>3</sub> O(CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> CH <sub>3</sub> ]:LiAsF <sub>6</sub> (n = 8-12). <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4039-4044	9.6	27
193	Demonstrating structural deformation in an inorganic nanotube. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9931-4	16.4	25
192	The synthesis and lithium intercalation electrochemistry of VO <sub>2</sub> (B) ultra-thin nanowires. <i>Journal of Power Sources</i> , <b>2008</b> , 178, 723-728	8.9	91
191	Nanomaterials for rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2930-46	16.4	5042

190	Alpha-MnO <sub>2</sub> nanowires: a catalyst for the O <sub>2</sub> electrode in rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4521-4	16.4	767
189	Synthesis of ordered mesoporous Li-Mn-O spinel as a positive electrode for rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9711-6	16.4	193
188	Energy storage beyond the horizon: Rechargeable lithium batteries. <i>Solid State Ionics</i> , <b>2008</b> , 179, 752-760	9.3	248
187	Doping crystalline polymer electrolytes with glymes. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3222		11
186	The lithium intercalation compound Li <sub>2</sub> CoSiO <sub>4</sub> and its behaviour as a positive electrode for lithium batteries. <i>Chemical Communications</i> , <b>2007</b> , 4890-2	5.8	132
185	Factors influencing the conductivity of crystalline polymer electrolytes. <i>Faraday Discussions</i> , <b>2007</b> , 134, 143-56; discussion 215-33, 415-9	3.6	53
184	The reaction of lithium with CuCr <sub>2</sub> S <sub>4</sub> lithium intercalation and copper displacement/extrusion. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3238		24
183	Structural Evolution of Layered Li <sub>x</sub> Mn <sub>y</sub> O <sub>2</sub> : Combined Neutron, NMR, and Electrochemical Study. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1016-1023	9.6	34
182	Mesoporous and nanowire Co <sub>3</sub> O <sub>4</sub> as negative electrodes for rechargeable lithium batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1837-42	3.6	363
181	Crystalline small-molecule electrolytes. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 2848-50	16.4	40
180	Ordered three-dimensional arrays of monodispersed Mn <sub>3</sub> O <sub>4</sub> nanoparticles with a core-shell structure and spin-glass behavior. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3946-50	16.4	30
179	Mesoporous Crystalline MnO <sub>2</sub> Reversible Positive Electrode for Rechargeable Lithium Batteries. <i>Advanced Materials</i> , <b>2007</b> , 19, 657-660	24	460
178	Mesoporous Mn <sub>2</sub> O <sub>3</sub> and Mn <sub>3</sub> O <sub>4</sub> with Crystalline Walls. <i>Advanced Materials</i> , <b>2007</b> , 19, 4063-4066	24	147
177	Macroporous Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> : A high-rate positive electrode for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 1201-1205	8.9	32
176	An O <sub>2</sub> cathode for rechargeable lithium batteries: The effect of a catalyst. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 1177-1182	8.9	519
175	Factors Influencing the Rate of Fe[O] Conversion Reaction. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, A264		76
174	Ionic conductivity in the solid glyme complexes [CH <sub>3</sub> O(CH <sub>2</sub> CH <sub>2</sub> O)(n)CH <sub>3</sub> ]:LiAsF <sub>6</sub> (n = 3,4). <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 8700-1	16.4	41
173	Macroporous Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> : A High-Power and High-Energy Cathode for Rechargeable Lithium Batteries. <i>Advanced Materials</i> , <b>2006</b> , 18, 2330-2334	24	206

172	TiO <sub>2</sub> (B) Nanowires as an Improved Anode Material for Lithium-Ion Batteries Containing LiFePO <sub>4</sub> or LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathodes and a Polymer Electrolyte. <i>Advanced Materials</i> , <b>2006</b> , 18, 2597-2600	24	345
171	Effect of Catalyst on the Performance of Rechargeable Lithium/Air Batteries.. <i>ECS Transactions</i> , <b>2006</b> , 3, 225-232	1	18
170	Demonstrating oxygen loss and associated structural reorganization in the lithium battery cathode Li[Ni <sub>0.2</sub> Li <sub>0.2</sub> Mn <sub>0.6</sub> ]O <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 8694-8	16.4	1235
169	Ion-polyether coordination complexes: crystalline ionic conductors for clean energy storage. <i>Dalton Transactions</i> , <b>2006</b> , 1365-9	4.3	41
168	Synthesis of ordered mesoporous Fe <sub>3</sub> O <sub>4</sub> and gamma-Fe <sub>2</sub> O <sub>3</sub> with crystalline walls using post-template reduction/oxidation. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 12905-9	16.4	293
167	TiO <sub>2</sub> (B) Nanotubes as Negative Electrodes for Rechargeable Lithium Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, A139		181
166	Ordered mesoporous Fe <sub>2</sub> O <sub>3</sub> with crystalline walls. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5468-74	16.4	360
165	Ionic conductivity in crystalline PEO <sub>6</sub> :Li(AsF <sub>6</sub> ) <sub>1-x</sub> (SbF <sub>6</sub> ) <sub>x</sub> . <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 12036-7	16.4	39
164	Rechargeable Li <sub>2</sub> O <sub>2</sub> electrode for lithium batteries. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1390-3	16.4	977
163	Layered Li <sub>x</sub> Mn <sub>1-x</sub> Li <sub>y</sub> O <sub>2</sub> intercalation electrodes: synthesis, structure and electrochemistry. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 218-224		12
162	Structure and conductivity of the crystalline polymer electrolyte beta-PEO <sub>6</sub> :LiAsF <sub>6</sub> . <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12176-7	16.4	41
161	Raising the conductivity of crystalline polymer electrolytes by aliovalent doping. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 18305-8	16.4	56
160	Nanotubes with the TiO <sub>2</sub> -B structure. <i>Chemical Communications</i> , <b>2005</b> , 2454-6	5.8	276
159	Crystal Structures of Poly(Ethylene Oxide) <sub>3</sub> :LiBF <sub>4</sub> and (Diglyme) <sub>n</sub> :LiBF <sub>4</sub> (n = 1,2). <i>Chemistry of Materials</i> , <b>2005</b> , 17, 767-772	9.6	48
158	TiO <sub>2</sub> B nanowires as negative electrodes for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>2005</b> , 146, 501-506	8.9	204
157	Overcharging manganese oxides: Extracting lithium beyond Mn <sup>4+</sup> . <i>Journal of Power Sources</i> , <b>2005</b> , 146, 275-280	8.9	103
156	Nanostructured materials for advanced energy conversion and storage devices. <i>Nature Materials</i> , <b>2005</b> , 4, 366-77	27	7496
155	Increasing the conductivity of crystalline polymer electrolytes. <i>Nature</i> , <b>2005</b> , 433, 50-3	50.4	356

154	Energy materials. <i>Solid State Sciences</i> , <b>2005</b> , 7, 1456-1463	3.4	37
153	Synthesis of nanowire and mesoporous low-temperature LiCoO <sub>2</sub> by a post-templating reaction. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6550-3	16.4	253
152	Synthesis of Nanowire and Mesoporous Low-Temperature LiCoO <sub>2</sub> by a Post-Templating Reaction. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 6708-6711	3.6	36
151	Lithium-Ion Intercalation into TiO <sub>2</sub> -B Nanowires. <i>Advanced Materials</i> , <b>2005</b> , 17, 862-865	24	747
150	Overcapacity of Li[Ni <sub>x</sub> Li <sub>1/3-x/3</sub> Mn <sub>2/3-x/3</sub> ]O <sub>2</sub> Electrodes. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A294		73
149	Influence on the First Charge Capacity of Layered Li-Mn-O-Based Electrodes by Combining Stoichiometric and Nonstoichiometric Materials. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A331		2
148	Electrochemistry Beyond Mn <sup>4+</sup> in Li <sub>x</sub> Mn <sub>1-y</sub> Li <sub>y</sub> O <sub>2</sub> . <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A1		36
147	Stoichiometric LiMnO <sub>2</sub> with a Layered Structure. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A1552	3.9	14
146	Structure of the Poly(ethylene oxide)-Zinc Chloride Complex. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2103-5	16.4	15
145	TiO <sub>2</sub> (2)-B nanowires. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2286-8	16.4	670
144	WO <sub>2</sub> Cl <sub>2</sub> Nanotubes and Nanowires. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4899-902	16.4	18
143	Two- and three-dimensional mesoporous iron oxides with microporous walls. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 5958-61	16.4	67
142	TiO <sub>2</sub> -B Nanowires. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 2336-2338	3.6	68
141	Two- and Three-Dimensional Mesoporous Iron Oxides with Microporous Walls. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6084-6087	3.6	17
140	The structure of poly(ethylene oxide) <sub>8</sub> : NaBPh <sub>4</sub> from a single crystal oligomer and polycrystalline polymer. <i>Chemical Communications</i> , <b>2004</b> , 148-9	5.8	11
139	Combined Neutron Diffraction, NMR, and Electrochemical Investigation of the Layered-to-Spinel Transformation in LiMnO <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2004</b> , 16, 3106-3118	9.6	97
138	Ionic conductivity in the crystalline polymer electrolytes PEO <sub>6</sub> :LiXF <sub>6</sub> , X = P, As, Sb. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4619-26	16.4	242
137	Vibrational Study of the Crystalline Phases of (CH <sub>3</sub> (OCH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> OCH <sub>3</sub> ) <sub>2</sub> LiSbF <sub>6</sub> and P(EO) <sub>6</sub> LiMF <sub>6</sub> (M = P, As, Sb). <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11255-11260	3.4	16



- 136 Mechanism of Electrochemical Activity in  $\text{Li}_2\text{MnO}_3$ . *Chemistry of Materials*, **2003**, 15, 1984-1992 9.6 415
- 135 Mesostructured iron and manganese oxides. *Journal of Materials Chemistry*, **2003**, 13, 2123 42
- 134 Nonstoichiometric layered  $\text{Li}_x\text{Mn}_y\text{O}_2$  intercalation electrodes—multiple dopant strategy. *Journal of Materials Chemistry*, **2003**, 13, 2367-2373 27
- 133 Divalent-dopant criterion for the suppression of Jahn-Teller distortion in Mn oxides: First-principles calculations and x-ray absorption spectroscopy measurements for Co in  $\text{LiMnO}_2$ . *Physical Review B*, **2003**, 68, 3.3 24
- 132 Ab Initio Structure Solution of the Polymer Electrolyte Poly(ethylene oxide) $_3$ : $\text{LiAsF}_6$ . *Chemistry of Materials*, **2002**, 14, 2166-2170 9.6 23
- 131 Nonstoichiometric Layered  $\text{Li}_x\text{Mn}_y\text{O}_2$  with a High Capacity for Lithium Intercalation/Deintercalation. *Chemistry of Materials*, **2002**, 14, 710-719 9.6 90
- 130 The origin of electrochemical activity in  $\text{Li}_2\text{MnO}_3$ . *Chemical Communications*, **2002**, 2790-1 5.8 148
- 129 Ionic conductivity in crystalline polymer electrolytes. *Nature*, **2001**, 412, 520-3 50.4 713
- 128 Using crystallography to understand polymer electrolytes. *Journal of Physics Condensed Matter*, **2001**, 13, 8245-8255 1.8 28
- 127 Peak-Shape Analysis Using the General Debye Equation. *Materials Science Forum*, **2001**, 378-381, 148-153.4
- 126 Structures of the Polymer Electrolyte Complexes  $\text{PEO}_6:\text{LiXF}_6$  ( $X = \text{P}, \text{Sb}$ ), Determined from Neutron Powder Diffraction Data. *Chemistry of Materials*, **2001**, 13, 1282-1285 9.6 99
- 125  $\text{Li}_x(\text{Mn}_{1-y}\text{Co}_y)\text{O}_2$  intercalation compounds as electrodes for lithium batteries: influence of ion exchange on structure and performance. *Journal of Materials Chemistry*, **2001**, 11, 113-118 40
- 124 Layered  $\text{Li}_x\text{Mn}_{1-y}\text{Co}_y\text{O}_2$  Intercalation Electrodes—Influence of Ion Exchange on Capacity and Structure upon Cycling. *Chemistry of Materials*, **2001**, 13, 2380-2386 9.6 84
- 123 Polymer electrolyte structure and its implications. *Electrochimica Acta*, **2000**, 45, 1417-1423 6.7 119
- 122 Temperature dependence of the electrical resistance of sound and carious teeth. *Journal of Dental Research*, **2000**, 79, 1464-8 8.1 13
- 121 Influence of ion exchange conditions on the defect chemistry and performance of cobalt doped layered lithium manganese oxide-based intercalation compounds. *Chemical Communications*, **2000**, 1997-1998 5.8 17
- 120 Electrochemical studies of heterogeneous reduction of tetracyanoquinodimethane in poly(ethylene oxide) electrolytes using ac impedance and cyclic voltammetry at an ultramicroelectrode. *Physical Chemistry Chemical Physics*, **2000**, 2, 5449-5454 3.6 12
- 119 Layered  $\text{Li}_x\text{Mn}_{1-y}\text{Ni}_y\text{O}_2$  intercalation electrodes. *Journal of Materials Chemistry*, **2000**, 10, 2838-2841 48



118	Capacity Loss of Lithium Manganese Oxide Spinel in LiPF <sub>6</sub> / Ethylene Carbonate-Dimethyl Carbonate Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 481-485	3.9	43
117	Correlating Capacity Loss of Stoichiometric and Nonstoichiometric Lithium Manganese Oxide Spinel Electrodes with Their Structural Integrity. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 3649-3654	3.9	87
116	Structure of the polymer electrolyte poly(ethylene oxide) <sub>6</sub> :LiAsF <sub>6</sub> . <i>Nature</i> , <b>1999</b> , 398, 792-794	50.4	353
115	Structural transformation on cycling layered Li(Mn <sub>1-x</sub> Co <sub>x</sub> )O <sub>2</sub> cathode materials. <i>Electrochimica Acta</i> , <b>1999</b> , 45, 285-294	6.7	60
114	The Layered Intercalation Compounds Li(Mn <sub>1-x</sub> Co <sub>x</sub> )O <sub>2</sub> : Positive Electrode Materials for Lithium-Ion Batteries. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 145, 549-556	3.3	80
113	An Oxygen-Rich Pyrochlore with Fluorite Composition. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 148, 56-62	3.3	47
112	New intercalation compounds for lithium batteries: layered LiMnO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 193-198		180
111	Structural Characterization of Layered LiMnO <sub>2</sub> Electrodes by Electron Diffraction and Lattice Imaging. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 2404-2412	3.9	141
110	Crystalline and Amorphous Phases in the Poly(ethylene oxide)-LiCF <sub>3</sub> SO <sub>3</sub> System. <i>Macromolecules</i> , <b>1999</b> , 32, 808-813	5.5	109
109	A New ab initio Powder Method and Profile Refinement in Materials Design: Application to Polymer Electrolytes <b>1999</b> , 119-133		
108	Improving the performance of graphite anodes in rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>1998</b> , 75, 144-150	8.9	11
107	An NMR investigation of the formation of the crystalline complex (PEO) <sub>3</sub> NaClO <sub>4</sub> . <i>Solid State Ionics</i> , <b>1998</b> , 107, 13-23	3.3	6
106	Structure of the polymer-salt co-ordination complex [(CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> ]: KCF <sub>3</sub> SO <sub>3</sub> , obtained from powder diffraction data. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1998</b> , 1073-1076		6
105	Solving crystal structures of molecular solids without single crystals: a simulated annealing approach. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1998</b> , 4071-4080		32
104	Li <sub>0.44</sub> MnO <sub>2</sub> : an intercalation electrode with a tunnel structure and excellent cyclability. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 255-259		52
103	Solution of Flexible Structures from Powder Diffraction Data Using a Simulated Annealing Technique. <i>Materials Science Forum</i> , <b>1998</b> , 278-281, 14-19	0.4	3
102	Solid-state chemistry of lithium power sources. <i>Chemical Communications</i> , <b>1997</b> , 1817	5.8	130
101	Ab initio solution of a complex crystal structure from powder-diffraction data using simulated-annealing method and a high degree of molecular flexibility. <i>Physical Review B</i> , <b>1997</b> , 55, 12017-12077	17.3	179

100	Structure of an amorphous polymer electrolyte, poly(ethyleneoxide)3:LiCF3SO3. <i>Chemical Communications</i> , <b>1997</b> , 157-158	5.8	64
99	New and optimised lithium manganese oxide cathodes for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>1997</b> , 68, 19-23	8.9	15
98	A General Monte Carlo Approach to Structure Solution from Powder Diffraction Data: Application to Poly(ethylene oxide)3:LiN(SO3CF3)2. <i>Journal of Applied Crystallography</i> , <b>1997</b> , 30, 294-305	3.8	67
97	Impedance spectroscopy of teeth with and without approximal caries lesions--an in vitro study. <i>Journal of Dental Research</i> , <b>1996</b> , 75, 1871-8	8.1	36
96	An interstitial pyrochlore formed by chemical intercalation of oxygen. <i>Chemical Communications</i> , <b>1996</b> , 1165	5.8	17
95	Structure of the polymer electrolyte poly(ethylene oxide)3: LiN(SO2CF3)2 determined by powder diffraction using a powerful Monte Carlo approach. <i>Chemical Communications</i> , <b>1996</b> , 2169	5.8	81
94	A New Class of Pyrochlore Solid Solution Formed by Chemical Intercalation of Oxygen. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 11129-11133	16.4	54
93	Ab initio structure solution of a novel aluminium methylphosphonate from laboratory X-ray powder diffraction data. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1996</b> , 3159		12
92	Structure of polymer electrolytes: the crystal structure of poly(ethylene oxide)4:RbSCN. <i>Solid State Ionics</i> , <b>1996</b> , 85, 203-208	3.3	19
91	Detection of dental decay and its extent using a.c. impedance spectroscopy. <i>Nature Medicine</i> , <b>1996</b> , 2, 235-7	50.5	43
90	Synthesis of layered LiMnO2 as an electrode for rechargeable lithium batteries. <i>Nature</i> , <b>1996</b> , 381, 499-500	50.4	1151
89	Determination of polymer electrolyte structures by X-ray powder diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1996</b> , 52, C395-C395		3
88	3 V and 4 V lithium manganese oxide cathodes for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>1995</b> , 54, 52-57	8.9	42
87	The electrical double layer at the interface between mercury and a polyether electrolyte Part 2. The effect of varying the relative molar mass of the solvent. <i>Journal of Electroanalytical Chemistry</i> , <b>1995</b> , 384, 85-91	4.1	1
86	Polymer electrolytes: structure and electrode processes. <i>Solid State Ionics</i> , <b>1995</b> , 78, 191-198	3.3	21
85	Combined X-ray and neutron powder diffraction study of magnesium-doped lithium niobate. <i>Journal of Materials Chemistry</i> , <b>1995</b> , 5, 1039		3
84	Structure and electrochemistry of polymer electrolytes. <i>Electrochimica Acta</i> , <b>1995</b> , 40, 2077-2085	6.7	88
83	The polymer electrolyte/electrode interface. <i>Electrochimica Acta</i> , <b>1995</b> , 40, 2159-2164	6.7	4

82	A 3 Volt Lithium Manganese Oxide Cathode for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, L76-L77	3.9	15
81	A 4 V Lithium Manganese Oxide Cathode for Rocking-Chair Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, L106-L107	3.9	35
80	Structure of $\text{Li}_3\text{AsO}_4$ by High Temperature Powder Neutron Diffraction. <i>Journal of Solid State Chemistry</i> , <b>1994</b> , 110, 243-249	3.3	5
79	The electrical double layer at the interface between mercury and a polyether electrolyte. <i>Journal of Electroanalytical Chemistry</i> , <b>1994</b> , 364, 163-169	4.1	5
78	The crystal and molecular structure of tribenzylsilanol by Rietveld refinement of powder X-ray diffraction data. <i>Journal of Organometallic Chemistry</i> , <b>1994</b> , 466, 51-54	2.3	6
77	Crystal Structure Determination from Powder Diffraction Data by Monte Carlo Methods. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 3543-3547	16.4	261
76	Structure of $\text{LiN}(\text{CF}_3\text{SO}_2)_2$ , a novel salt for electrochemistry. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1579		104
75	Ab initio determination of crystal structures by X-ray powder diffraction: structure of $\text{Li}_{29}\text{Zr}_9\text{Nb}_3\text{O}_{40}$ . <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 167		6
74	Probing molecular motion by solid-state NMR spectroscopy and high resolution powder X-ray diffraction. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 209		3
73	Crystal Structures of the Polymer Electrolytes Poly(ethylene oxide) $_4$ :MSCN (M = $\text{NH}_4$ , K). <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 7469-7470	16.4	45
72	Crystal Structure of the Polymer Electrolyte Poly(ethylene oxide) $_3$ : $\text{LiCF}_3\text{SO}_3$ . <i>Science</i> , <b>1993</b> , 262, 883-5	33.3	355
71	Phase diagram of the poly(ethylene oxide):calcium trifluoromethanesulfonate system. <i>Chemistry of Materials</i> , <b>1993</b> , 5, 1338-1343	9.6	8
70	Investigation and rationalisation of hydrogen bonding patterns in sulfonylamino compounds and related materials: crystal structure determination of microcrystalline solids from powder X-ray diffraction data. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1993</b> , 1625		8
69	Polymer electrolytes. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1993</b> , 89, 3187		379
68	Three-electrode cell system for the study of reversible cathodes in rechargeable lithium batteries. <i>Measurement Science and Technology</i> , <b>1993</b> , 4, 1515-1518	2	1
67	The Disordered Structure of $\text{WO}_2\text{Cl}_2$ : A Powder Diffraction Study. <i>Journal of Solid State Chemistry</i> , <b>1993</b> , 102, 140-145	3.3	10
66	$\text{Li}_6\text{Zr}_2\text{O}_7$ , a New Anion Vacancy ccp Based Structure, Determined by ab initio Powder Diffraction Methods. <i>Journal of Solid State Chemistry</i> , <b>1993</b> , 104, 397-403	3.3	17
65	Constant-voltage polarization of symmetric polymer electrolyte cells with non-blocking electrodes. <i>Polymers for Advanced Technologies</i> , <b>1993</b> , 4, 144-151	3.2	1

64	Two-and three-electrode studies of cycling in experimental polymer electrolyte cells. <i>Journal of Power Sources</i> , <b>1993</b> , 44, 461-465	8.9	3
63	Polymer Electrolytes and Intercalation Electrodes : Fundamentals and Applications <b>1993</b> , 87-107		3
62	Materials chemistry communications. Ab initio determination of molecular structures using high-resolution powder diffraction data from a laboratory X-ray source. <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 361		20
61	Structure of the cubic intercalate $\text{Mg}_x\text{TiS}_2$ . <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 139		29
60	Structure of the poly(ethylene oxide)sodium perchlorate complex $\text{PEO}_3\text{NaClO}_4$ from powder X-ray diffraction data. <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 379-381		65
59	Materials chemistry communications. Application of the combined maximum entropy and likelihood method to the ab initio determination of an organic crystal structure from X-ray powder diffraction data. <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 1301		19
58	Determination of a molecular crystal structure by X-ray powder diffraction on a conventional laboratory instrument. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1992</b> , 1012		40
57	Temperature dependence of sodium ion diffusion in $\text{Na}_x\text{WO}_2\text{Cl}_2$ . <i>Solid State Ionics</i> , <b>1992</b> , 50, 41-45	3.3	2
56	A novel electrochemical source of potassium for doping $\text{II-VI}$ compounds. <i>Solid State Ionics</i> , <b>1992</b> , 57, 1-5	3.3	5
55	Vacancy diffusion in the intercalation electrode $\text{Li}_{1-x}\text{NiO}_2$ . <i>Solid State Ionics</i> , <b>1992</b> , 57, 353-358	3.3	49
54	A two-step model of intercalation. <i>Solid State Ionics</i> , <b>1992</b> , 51, 187-190	3.3	36
53	The determination of transference numbers in solid polymer electrolytes using the Hittorf method. <i>Solid State Ionics</i> , <b>1992</b> , 53-56, 1087-1094	3.3	82
52	Ab initio structure determination of $\text{LiCF}_3\text{SO}_3$ from X-ray powder diffraction data using entropy maximization and likelihood ranking. <i>Journal of Solid State Chemistry</i> , <b>1992</b> , 100, 191-196	3.3	53
51	A zinc trifluoromethane sulphonate polymer electrolyte. <i>Electrochimica Acta</i> , <b>1992</b> , 37, 1707-1710	6.7	2
50	Structure of potassium strontium cuprate, $\text{K}_{0.95}\text{Sr}_{0.05}\text{CuO}_2$ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1992</b> , 48, 731-733		0
49	dc Polarization of polymer electrolytes. <i>Electrochimica Acta</i> , <b>1992</b> , 37, 1517-1520	6.7	21
48	The perfectly polarized polymer electrolyte/electrode interface. <i>Electrochimica Acta</i> , <b>1992</b> , 37, 1525-1528	6.7	3
47	Intercalation compounds: Some recent developments and future trends in mixed conductors. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1991</b> , 64, 1101-1112		3

46	Structure of the intercalate NaWO <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , <b>1991</b> , 94, 254-259	3.3	5
45	A defect cluster model for ion migration in solid electrolytes. <i>Journal of Solid State Chemistry</i> , <b>1991</b> , 95, 74-82	3.3	14
44	Defect clustering in the superionic conductor lithium germanium vanadate. <i>Acta Crystallographica Section B: Structural Science</i> , <b>1991</b> , 47, 696-701		16
43	Comparison of the cubic and layered polymorphs of titanium disulphide. <i>Electrochimica Acta</i> , <b>1991</b> , 36, 569-575	6.7	8
42	Polymer Electrolytes with the Multivalent Cations Hg <sup>2+</sup> and La <sup>3+</sup> . <i>Materials Science Forum</i> , <b>1991</b> , 42, 193-198	0.4	6
41	Chemical Intercalation of Divalent Cations. <i>Materials Science Forum</i> , <b>1991</b> , 76, 61-64	0.4	
40	Ionic transport in polymer electrolytes. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1991</b> , 64, 1091-1099		22
39	Ion association in polymer electrolytes: transport and materials optimization. <i>Synthetic Metals</i> , <b>1991</b> , 45, 267-278	3.6	22
38	Chemical intercalation of magnesium into solid hosts. <i>Journal of Materials Chemistry</i> , <b>1991</b> , 1, 705		70
37	Synthesis and structure of LiCaPo <sub>4</sub> by combined X-ray and neutron powder diffraction. <i>Journal of Materials Chemistry</i> , <b>1991</b> , 1, 1061		31
36	The mechanism of lithium ion mobility in solid electrolytes. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1991</b> , 64, 1113-1118		6
35	Refinement of the Li <sub>x</sub> Cu <sub>0.07</sub> Ti <sub>2.05</sub> S <sub>4</sub> structure by powder neutron diffraction. <i>Materials Research Bulletin</i> , <b>1990</b> , 25, 533-538	5.1	9
34	Variation of the preexponential factor and activation energy for lithium diffusion in cubic titanium disulfide. <i>Journal of Solid State Chemistry</i> , <b>1990</b> , 88, 411-418	3.3	9
33	Sodium intercalation into the defect garnets Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> and Fe <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>1990</b> , 89, 162-166	3.3	21
32	Sodium intercalation into WO <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , <b>1990</b> , 89, 202-207	3.3	6
31	An anhydrous polymer electrolyte containing trivalent cations: Poly(ethylene oxide):La(ClO <sub>4</sub> ) <sub>3</sub> . <i>Solid State Ionics</i> , <b>1990</b> , 38, 231-234	3.3	21
30	The Processing of Unfair Labor Practice Cases in the United States and Ontario. <i>Industrial Relations</i> , <b>1990</b> , 45, 481-511	0.4	3
29	A re-examination of the licon structure using high-resolution powder neutron diffraction: evidence for defect clustering. <i>Acta Crystallographica Section B: Structural Science</i> , <b>1989</b> , 45, 457-462		20

28	Political Parties and Labour legislation in Canada and the U.S.. <i>Industrial Relations</i> , <b>1989</b> , 28, 115-141	1.5	21
27	Characterisation of the electrode/electrolyte interfaces in cells of the type Li/PEO_LiCF <sub>3</sub> SO <sub>3</sub> /V <sub>6</sub> O <sub>13</sub> by ac impedance methods. <i>Solid State Ionics</i> , <b>1989</b> , 36, 171-174	3.3	35
26	Steady state current flow in solid binary electrolyte cells. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1989</b> , 271, 27-34		32
25	Refinement of the lithium distribution in Li <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> using high-resolution powder neutron diffraction. <i>Journal of Solid State Chemistry</i> , <b>1989</b> , 78, 170-177	3.3	32
24	Structure determination of substituted rutilites by time-of-flight neutron diffraction. <i>Chemistry of Materials</i> , <b>1989</b> , 1, 237-240	9.6	28
23	Effect of ion association on transport in polymer electrolytes. <i>Faraday Discussions of the Chemical Society</i> , <b>1989</b> , 88, 43		74
22	Studies of the interface between V <sub>6</sub> O <sub>13</sub> and poly(ethylene oxide) based electrolytes. <i>Electrochimica Acta</i> , <b>1988</b> , 33, 1669-1674	6.7	27
21	Preliminary results on a new polymer electrolyte, poly(ethyleneoxide)-Hg(ClO <sub>4</sub> ) <sub>2</sub> . <i>British Polymer Journal</i> , <b>1988</b> , 20, 193-194		5
20	Preparation and characterisation of PEOHg(ClO <sub>4</sub> ) <sub>2</sub> complexes and some thoughts on ion transport in polymer electrolytes. <i>Solid State Ionics</i> , <b>1988</b> , 27, 81-88	3.3	21
19	Structure determination of LISICON solid solutions by powder neutron diffraction. <i>Journal of Solid State Chemistry</i> , <b>1988</b> , 75, 390-396	3.3	23
18	Electrochemical measurement of transference numbers in polymer electrolytes. <i>Polymer</i> , <b>1987</b> , 28, 2324-2328	3.9	1217
17	A dc technique for measurement of solid electrolyte conductivity. <i>Solid State Ionics</i> , <b>1987</b> , 25, 255-262	3.3	8
16	Structural refinement of delithiated LiVO <sub>2</sub> by neutron diffraction. <i>Journal of Solid State Chemistry</i> , <b>1987</b> , 67, 285-290	3.3	31
15	Steady state current flow in solid binary electrolyte cells. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1987</b> , 225, 1-17		433
14	High and low frequency Jonscher behaviour of an ionically conducting glass. <i>Solid State Ionics</i> , <b>1985</b> , 15, 247-251	3.3	26
13	Lithium mobility in the layered oxide Li <sub>1-x</sub> CoO <sub>2</sub> . <i>Solid State Ionics</i> , <b>1985</b> , 17, 13-19	3.3	135
12	AC Impedance Analysis of Polycrystalline Insertion Electrodes: Application to Li <sub>1-x</sub> CoO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>1985</b> , 132, 1521-1528	3.9	258
11	Lithium insertion into $\gamma$ -MnO <sub>2</sub> and the rutile-spinel transformation. <i>Materials Research Bulletin</i> , <b>1984</b> , 19, 99-106	5.1	91

10	Electrochemical extraction of lithium from $\text{LiMn}_2\text{O}_4$ . <i>Materials Research Bulletin</i> , <b>1984</b> , 19, 179-187	5.1	704
9	Structural characterization of delithiated $\text{LiVO}_2$ . <i>Materials Research Bulletin</i> , <b>1984</b> , 19, 1497-1506	5.1	107
8	Ion trapping and its effect on the conductivity of LISICON and other solid electrolytes. <i>Journal of Solid State Chemistry</i> , <b>1984</b> , 53, 430-434	3.3	16
7	Periodic arrays of identical ions packed with 10, 11, and 12 nearest neighbors. <i>Journal of Solid State Chemistry</i> , <b>1983</b> , 50, 235-239	3.3	4
6	The A-C Conductivity of Polycrystalline LISICON, $\text{Li}_2 + 2x \text{Zn}_{1-x} \text{GeO}_4$ , and a Model for Intergranular Constriction Resistances. <i>Journal of the Electrochemical Society</i> , <b>1983</b> , 130, 662-669	3.9	223
5	Lithium insertion into manganese spinels. <i>Materials Research Bulletin</i> , <b>1983</b> , 18, 461-472	5.1	1265
4	Tetragonal-packed crystal structures. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , <b>1982</b> , 38, 1891-1896		47
3	Ionic conductivity of LISICON solid solutions, $\text{Li}_{2+2x}\text{Zn}_{1-x}\text{GeO}_4$ . <i>Journal of Solid State Chemistry</i> , <b>1982</b> , 44, 354-365	3.3	86
2	A new analysis of ac conductivity data in single crystal $\alpha$ -alumina. <i>Solid State Ionics</i> , <b>1982</b> , 7, 57-60	3.3	40
1	Phase diagram of the LISICON, solid electrolyte system, $\text{Li}_4\text{GeO}_4$ - $\text{Zn}_2\text{GeO}_4$ . <i>Materials Research Bulletin</i> , <b>1980</b> , 15, 379-385	5.1	51