Peter Bruce

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/836604/peter-bruce-publications-by-year.pdf
Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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 O2 in a charged Li-rich cathode by Neutron PDF. *Energy and Environmental Science*, **2022**, 15, 376-383	35.4	5
368	Singlet oxygen and dioxygen bond cleavage in the aprotic lithium-oxygen battery. *Joule*, **2022**, 6, 185-192	27.8	9
367	Solid-state lithium battery cathodes operating at low pressures. *Joule*, **2022**, 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. *Inorganics*, **2022**, 10, 60	2.9	1
365	Direct imaging of oxygen shifts associated with the oxygen redox of Li-rich layered oxides. *Joule*, **2022**,	27.8	1
364	Achieving Ultra-High Rate Planar and Dendrite-Free Zinc Electroplating for Aqueous Zinc Battery Anodes.. *Advanced Materials*, **2022**, e2202552	24	8
363	Carbon-emcoating architecture boosts lithium storage of Nb2O5. *Science China Materials*, **2021**, 64, 1071-1086	7.1	0
362	The role of O2 in O-redox cathodes for Li-ion batteries. *Nature Energy*, **2021**, 6, 781-789	62.3	48
361	Visualizing plating-induced cracking in lithium-anode solid-electrolyte cells. *Nature Materials*, **2021**, 20, 1121-1129	27	74
360	Temperature Dependence of Lithium Anode Voiding in Argyrodite Solid-State Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 22708-22716	9.5	10
359	Bulk O2 formation and Mg displacement explain O-redox in Na0.67Mn0.72Mg0.28O2. *Joule*, **2021**, 5, 1267-1280	27.8	11
358	Covalency does not suppress O formation in 4d and 5d Li-rich O-redox cathodes. *Nature Communications*, **2021**, 12, 2975	17.4	13
357	The Role of Ni and Co in Suppressing O-Loss in Li-Rich Layered Cathodes. *Advanced Functional Materials*, **2021**, 31, 2003660	15.6	22
356	Imaging Sodium Dendrite Growth in All-Solid-State Sodium Batteries Using Na T -Weighted Magnetic Resonance Imaging. *Angewandte Chemie - International Edition*, **2021**, 60, 2110-2115	16.4	12
355	Imaging Sodium Dendrite Growth in All-Solid-State Sodium Batteries Using 23Na T2-Weighted Magnetic Resonance Imaging. *Angewandte Chemie*, **2021**, 133, 2138-2143	3.6	1
354	Revealing the Role of Fluoride-Rich Battery Electrode Interphases by Operando Transmission Electron Microscopy. *Advanced Energy Materials*, **2021**, 11, 2003118	21.8	27
353	Direct Imaging of Oxygen Sub-lattice Deformation in Li-rich Cathode Material Using Electron Ptychography. *Microscopy and Microanalysis*, **2021**, 27, 2724-2726	0.5	

352	Li2NiO2F a New Oxyfluoride Disordered Rocksalt Cathode Material. *Journal of the Electrochemical Society*, **2021**, 168, 080521	3.9	0
351	Lithiation phase behaviors of metal oxide anodes and extra capacities. *Cell Reports Physical Science*, **2021**, 2, 100543	6.1	0
350	P2Na2/3Mg1/4Mn7/12Co1/6O2 cathode material based on oxygen redox activity with improved first-cycle voltage hysteresis. *Journal of Power Sources*, **2021**, 506, 230104	8.9	1
349	Non-equilibrium metal oxides via reconversion chemistry in lithium-ion batteries. *Nature Communications*, **2021**, 12, 561	17.4	9
348	Redox Chemistry and the Role of Trapped Molecular O in Li-Rich Disordered Rocksalt Oxyfluoride Cathodes. *Journal of the American Chemical Society*, **2020**, 142, 21799-21809	16.4	34
347	Current-Density-Dependent Electroplating in Ca Electrolytes: From Globules to Dendrites. *ACS Energy Letters*, **2020**, 5, 2283-2290	20.1	21
346	Lithium-Oxygen Batteries and Related Systems: Potential, Status, and Future. *Chemical Reviews*, **2020**, 120, 6626-6683	68.1	279
345	Observation of Interfacial Degradation of Li6PS5Cl against Lithium Metal and LiCoO2 via In Situ Electrochemical Raman Microscopy. *Batteries and Supercaps*, **2020**, 3, 647-652	5.6	36
344	Single source precursor route to iron sulfide nanomaterials for energy storage. *Chemical Physics Letters*, **2020**, 739, 136993	2.5	4
343	2020 roadmap on solid-state batteries. *JPhys Energy*, **2020**, 2, 032008	4.9	31
342	The Interface between Li6.5La3Zr1.5Ta0.5O12 and Liquid Electrolyte. *Joule*, **2020**, 4, 101-108	27.8	45
341	Sodium/Na β Alumina Interface: Effect of Pressure on Voids. *ACS Applied Materials & Interfaces*, **2020**, 12, 678-685	9.5	45
340	Superstructure control of first-cycle voltage hysteresis in oxygen-redox cathodes. *Nature*, **2020**, 577, 502-508	50.4	222
339	First-cycle voltage hysteresis in Li-rich 3d cathodes associated with molecular O2 trapped in the bulk. *Nature Energy*, **2020**, 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. *Energy and Environmental Science*, **2020**, 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. *ACS Applied Materials & Interfaces*, **2020**, 12, 43785-43797	9.5	10
336	Charging Mechanism of Li2MnO3. *Chemistry of Materials*, **2020**, 32, 3733-3740	9.6	32
335	Nature of the Z phase in layered Na-ion battery cathodes. *Energy and Environmental Science*, **2019**, 12, 2223-2232	35.4	79

334	Enhanced Li-O2 Battery Performance in a Binary Liquid Teflon and Dual Redox Mediators. *Advanced Materials Technologies*, **2019**, 4, 1800645	6.8	10
333	Li NMR Chemical Shift Imaging To Detect Microstructural Growth of Lithium in All-Solid-State Batteries. *Chemistry of Materials*, **2019**, 31, 2762-2769	9.6	70
332	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. *Chemistry of Materials*, **2019**, 31, 3293-3300	9.6	90
331	Operando Liquid-electrochemical TEM for Monitoring Growth and Dissolution Steps of NaO2 Cubes in Na-O2 Battery. *Microscopy and Microanalysis*, **2019**, 25, 1438-1439	0.5	1
330	Dental Resin Monomer Enables Unique NbO2/Carbon Lithium-Ion Battery Negative Electrode with Exceptional Performance. *Advanced Functional Materials*, **2019**, 29, 1904961	15.6	18
329	Critical stripping current leads to dendrite formation on plating in lithium anode solid electrolyte cells. *Nature Materials*, **2019**, 18, 1105-1111	27	325
328	Quantifying oxygen distortions in lithium-rich transition-metal-oxide cathodes using ABF STEM. *Ultramicroscopy*, **2019**, 210, 112914	3.1	5
327	Is Nitrogen Present in Li3N P2S5 Solid Electrolytes Produced by Ball Milling?. *Chemistry of Materials*, **2019**, 31, 9993-10001	9.6	6
326	Depth-dependent oxygen redox activity in lithium-rich layered oxide cathodes. *Journal of Materials Chemistry A*, **2019**, 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. *Journal of Materials Chemistry A*, **2019**, 7, 25389-25398	13	15
324	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 2437-2442	16.4	81
323	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. *Angewandte Chemie*, **2019**, 131, 2459-2464	3.6	16
322	Lithium manganese oxyfluoride as a new cathode material exhibiting oxygen redox. *Energy and Environmental Science*, **2018**, 11, 926-932	35.4	110
321	Direct transformation of bijels into bicontinuous composite electrolytes using a pre-mix containing lithium salt. *Materials Horizons*, **2018**, 5, 499-505	14.4	16
320	Kinetics of lithium peroxide oxidation by redox mediators and consequences for the lithium-oxygen cell. *Nature Communications*, **2018**, 9, 767	17.4	70
319	Identification and characterisation of high energy density P2-type Na2/3[Ni1/3 /2Mn2/3 /2Fey]O2 compounds for Na-ion batteries. *Journal of Materials Chemistry A*, **2018**, 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. *Nano Letters*, **2018**, 18, 1280-1289	11.5	61
317	Oxygen redox chemistry without excess alkali-metal ions in Na[MgMn]O. *Nature Chemistry*, **2018**, 10, 288-295	17.6	281

316	Bonding Insights from Structural and Spectroscopic Comparisons of {SnW } and {TiW } Alkoxido- and Aryloxido-Substituted Lindqvist Polyoxometalates. *Chemistry - A European Journal*, **2018**, 24, 2750-2757	4.8	1
315	High capacity surface route discharge at the potassium-O2 electrode. *Journal of Electroanalytical Chemistry*, **2018**, 819, 542-546	4.1	19
314	High voltage structural evolution and enhanced Na-ion diffusion in P2-Na2/3Ni1/3−xMgxMn2/3O2 (0 ≤ x ≤ 0.2) cathodes from diffraction, electrochemical and ab initio studies. *Energy and Environmental Science*, **2018**, 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 NaO2. *Advanced Energy Materials*, **2018**, 8, 1701581	21.8	21
312	Degradation Mechanisms at the LiGePS/LiCoO Cathode Interface in an All-Solid-State Lithium-Ion Battery. *ACS Applied Materials & Interfaces*, **2018**, 10, 22226-22236	9.5	158
311	All-Solid-State Batteries and their Remaining Challenges. *Johnson Matthey Technology Review*, **2018** , 62, 177-180	2.5	19
310	Plating and stripping calcium in an organic electrolyte. *Nature Materials*, **2018**, 17, 16-20	27	189
309	Hybrid electrolytes with 3D bicontinuous ordered ceramic and polymer microchannels for all-solid-state batteries. *Energy and Environmental Science*, **2018**, 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. *Nano Letters*, **2018**, 18, 6850-6855	11.5	34
307	Evidence of Enhanced Ion Transport in Li-Rich Silicate Intercalation Materials. *Advanced Energy Materials*, **2017**, 7, 1601043	21.8	30
306	Phenol-Catalyzed Discharge in the Aprotic Lithium-Oxygen Battery. *Angewandte Chemie - International Edition*, **2017**, 56, 6539-6543	16.4	43
305	LiO: Cryosynthesis and Chemical/Electrochemical Reactivities. *Journal of Physical Chemistry Letters*, **2017**, 8, 2334-2338	6.4	55
304	Phenol-Catalyzed Discharge in the Aprotic Lithium-Oxygen Battery. *Angewandte Chemie*, **2017**, 129, 6639-6643	3.6	22
303	Degradation diagnostics for lithium ion cells. *Journal of Power Sources*, **2017**, 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. *Journal of Physical Chemistry C*, **2017**, 121, 23307-23316	3.8	15
301	Degradation Diagnostics for Commercial Lithium-Ion Cells Tested at −10°C. *Journal of the Electrochemical Society*, **2017**, 164, A2644-A2653	3.9	16
300	A rechargeable lithium–oxygen battery with dual mediators stabilizing the carbon cathode. *Nature Energy*, **2017**, 2,	62.3	178
299	Lithiation Thermodynamics and Kinetics of the TiO (B) Nanoparticles. *Journal of the American Chemical Society*, **2017**, 139, 13330-13341	16.4	33

298	Role of Electrolyte Anions in the Na–O2 Battery: Implications for NaO2 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 Na–O2 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-Na2/3Mn1–yMgyO2 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 Na0.67Ni0.33–xMgxMn0.7O2 (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(V0.5Ti0.5)S2 as a 1 V lithium intercalation electrode. *Nature Communications*, **2016**, 7, 10898	17.4	22
286	Promoting solution phase discharge in Li-O2 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[Li0.2Ni0.2Mn0.6]O2. *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 Li2FeSiO4 and Li2.2Fe0.9SiO4 Li ion battery materials. *Journal of Materials Chemistry A*, **2015**, 3, 7314-7322	13	19
283	The Morphology of TiO2 (B) Nanoparticles. *Journal of the American Chemical Society*, **2015**, 137, 13612-23	16.4	42
282	Rate Dependent Performance Related to Crystal Structure Evolution of Na0.67Mn0.8Mg0.2O2 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 LiFePO4. *Nature Communications*, **2015**, 6, 7898	17.4	51
279	Review: Manganese-Based P2-Type Transition Metal Oxides as Sodium-Ion Battery Cathode Materials. *Journal of the Electrochemical Society*, **2015**, 162, A2589-A2604	3.9	297
278	A Parametric Open Circuit Voltage Model for Lithium Ion Batteries. *Journal of the Electrochemical Society*, **2015**, 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. *Angewandte Chemie*, **2015**, 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. *Angewandte Chemie - International Edition*, **2015**, 54, 8165-8	16.4	64
275	Minimally Invasive Insertion of Reference Electrodes into Commercial Lithium-Ion Pouch Cells. *ECS Electrochemistry Letters*, **2015**, 4, A145-A147		28
274	A Comprehensive Model for Non-Aqueous Lithium Air Batteries Involving Different Reaction Mechanisms. *Journal of the Electrochemical Society*, **2015**, 162, A614-A621	3.9	66
273	Polymorphism in Li2MSiO4 (M = Fe, Mn): A Variable Temperature Diffraction Study. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 1043-1049	1.3	10
272	The shape of TiO2-B nanoparticles. *Journal of the American Chemical Society*, **2014**, 136, 6306-12	16.4	29
271	The role of LiO2 solubility in O2 reduction in aprotic solvents and its consequences for Li-O2 batteries. *Nature Chemistry*, **2014**, 6, 1091-9	17.6	764
270	Lithium-ion diffusion mechanisms in the battery anode material Li(1+x)V(1-x)O2. *Physical Chemistry Chemical Physics*, **2014**, 16, 21114-8	3.6	50
269	Aprotic Li-O2 Battery: Influence of Complexing Agents on Oxygen Reduction in an Aprotic Solvent. *Journal of Physical Chemistry C*, **2014**, 118, 3393-3401	3.8	33
268	β-NaMnO2: a high-performance cathode for sodium-ion batteries. *Journal of the American Chemical Society*, **2014**, 136, 17243-8	16.4	277
267	Li ion dynamics in TiO2 anode materials with an ordered hierarchical pore structure--insights from ex situ NMR. *Physical Chemistry Chemical Physics*, **2014**, 16, 1894-901	3.6	24
266	Na0.67Mn1-xMgxO2 (0 < x < 0.2): a high capacity cathode for sodium-ion batteries. *Energy and Environmental Science*, **2014**, 7, 1387-1391	35.4	325
265	Materials challenges in rechargeable lithium-air batteries. *MRS Bulletin*, **2014**, 39, 443-452	3.2	127
264	Sulfone-Based Electrolytes for Nonaqueous Li-O2 Batteries. *Journal of Physical Chemistry C*, **2014**, 118, 18892-18898	3.8	44
263	Environmental In Situ X-ray Absorption Spectroscopy Evaluation of Electrode Materials for Rechargeable Lithium-Oxygen Batteries. *Journal of Physical Chemistry C*, **2014**, 118, 12617-12624	3.8	9

262	Synthesis of poly(ethylene oxide) approaching monodispersity. *Angewandte Chemie - International Edition*, **2014**, 53, 6411-3	16.4	31
261	Synthesis of Poly(ethylene oxide) Approaching Monodispersity. *Angewandte Chemie*, **2014**, 126, 6529-6531	3.6	5
260	Nonaqueous Electrolytes **2014**, 23-58		4
259	A stable cathode for the aprotic Li-O2 battery. *Nature Materials*, **2013**, 12, 1050-6	27	617
258	The carbon electrode in nonaqueous Li-O2 cells. *Journal of the American Chemical Society*, **2013**, 135, 494-500	16.4	1014
257	Nanostructured TiO2(B): the effect of size and shape on anode properties for Li-ion batteries. *Progress in Natural Science: Materials International*, **2013**, 23, 235-244	3.6	68
256	A solid with a hierarchical tetramodal micro-meso-macro pore size distribution. *Nature Communications*, **2013**, 4, 2015	17.4	73
255	Nanostructuring of β-MnO2: The Important Role of Surface to Bulk Ion Migration. *Chemistry of Materials*, **2013**, 25, 536-541	9.6	85
254	Charging a Li-O2 battery using a redox mediator. *Nature Chemistry*, **2013**, 5, 489-94	17.6	675
253	Catalytic decomposition of N2O on ordered crystalline metal oxides. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 5093-103	1.3	29
252	Mesoporous LiFePO4 as a cathode material for rechargeable lithium ion batteries. *Electrochemistry Communications*, **2012**, 17, 60-62	5.1	25
251	An alkoxido-tin-substituted polyoxometalate [(MeO)SnW5O18]3-: the first member of a new family of reactive {SnW5} Lindqvist-type anions. *Chemistry - A European Journal*, **2012**, 18, 59-62	4.8	13
250	Nanoparticulate TiO2(B): an anode for lithium-ion batteries. *Angewandte Chemie - International Edition*, **2012**, 51, 2164-7	16.4	274
249	Li-O2 battery with a dimethylformamide electrolyte. *Journal of the American Chemical Society*, **2012**, 134, 7952-7	16.4	319
248	The pursuit of rechargeable non-aqueous lithium-oxygen battery cathodes. *Current Opinion in Solid State and Materials Science*, **2012**, 16, 178-185	12	91
247	Co3O4-KIT-6 composite catalysts: synthesis, characterization, and application in catalytic decomposition of N2O. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	9
246	Insights into Changes in Voltage and Structure of Li2FeSiO4 Polymorphs for Lithium-Ion Batteries. *Chemistry of Materials*, **2012**, 24, 2155-2161	9.6	119
245	Ordered mesoporous NiCoMnO4: synthesis and application in energy storage and catalytic decomposition of N2O. *Journal of Materials Chemistry*, **2012**, 22, 15121		15

244	A reversible and higher-rate Li-O2 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 TiO2 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/Cu2O into porous Cu2O nanowires in ethanol. *CrystEngComm*, **2012**, 14, 2617	3.3	10
238	New Insights into the Crystal and Electronic Structures of Li1+xV1−xO2 from Solid State NMR, Pair Distribution Function Analyses, and First Principles Calculations. *Chemistry of Materials*, **2012**, 24, 2880-2893	9.6	39
237	TiO2-(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 TiO2(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	Innentitelbild: 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, 4909-4927	38.5	604
231	Li-O2 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-O2 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 Li2FeSiO4 cathodes for lithium batteries. *Journal of the American Chemical Society*, **2011**, 133, 13031-5	16.4	253
225	Ordered mesoporous NiMn2Ox with hematite or spinel structure: synthesis and application in electrochemical energy storage and catalytic conversion of N2O. *CrystEngComm*, **2011**, 13, 6955	3.3	26
224	The lithium-oxygen battery with ether-based electrolytes. *Angewandte Chemie - International Edition*, **2011**, 50, 8609-13	16.4	922
223	Polymorphism in Li2(Fe,Mn)SiO4: A combined diffraction and NMR study. *Journal of Materials Chemistry*, **2011**, 21, 17823		53
222	The lithium intercalation process in the low-voltage lithium battery anode Li(1+x)V(1-x)O2. *Nature Materials*, **2011**, 10, 223-9	27	244
221	Silicate cathodes for lithium batteries: alternatives to phosphates?. *Journal of Materials Chemistry*, **2011**, 21, 9811		287
220	Dependence of Li2FeSiO4 electrochemistry on structure. *Journal of the American Chemical Society*, **2011**, 133, 1263-5	16.4	185
219	Polymer Electrolytes **2011**, 1-31		21
218	Oxygen Reactions in a Non-Aqueous Li+ Electrolyte. *Angewandte Chemie*, **2011**, 123, 6475-6479	3.6	118
217	Die Lithium-Sauerstoff-Batterie mit etherbasierten Elektrolyten. *Angewandte Chemie*, **2011**, 123, 8768-8772	3.6	95
216	Oxygen reactions in a non-aqueous Li+ electrolyte. *Angewandte Chemie - International Edition*, **2011** , 50, 6351-5	16.4	472
215	Activated Lithium-Metal-Oxides as Catalytic Electrodes for Li-O2 Cells. *Electrochemical and Solid-State Letters*, **2011**, 14, A64		63
214	Crystal structure of a new polymorph of Li2FeSiO4. *Inorganic Chemistry*, **2010**, 49, 7446-51	5.1	102
213	Lithium Coordination Sites in LixTiO2(B): A Structural and Computational Study. *Chemistry of Materials*, **2010**, 22, 6426-6432	9.6	93
212	Influence of size on the rate of mesoporous electrodes for lithium batteries. *Journal of the American Chemical Society*, **2010**, 132, 996-1004	16.4	255
211	Polymorphism and structural defects in Li(2)FeSiO(4). *Dalton Transactions*, **2010**, 39, 6310-6	4.3	106
210	Nanostructured materials for advanced energy conversion and storage devices **2010**, 148-159		51
209	Energy materials to combat climate change. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 3225	3	1

208	Structural Polymorphism in Li2CoSiO4 Intercalation Electrodes: A Combined Diffraction and NMR Study. *Chemistry of Materials*, **2010**, 22, 1892-1900	9.6	72
207	H[sub 2]O[sub 2] Decomposition Reaction as Selecting Tool for Catalysts in Li-O[sub 2] Cells. *Electrochemical and Solid-State Letters*, **2010**, 13, A180		93
206	Lithium intercalation into mesoporous anatase with an ordered 3D pore structure. *Angewandte Chemie - International Edition*, **2010**, 49, 2570-4	16.4	204
205	Li diffusion properties of mixed conducting TiO2-B nanowires. *Physical Review B*, **2009**, 80,	3.3	29
204	Ordered Crystalline Mesoporous Oxides as Catalysts for CO Oxidation. *Catalysis Letters*, **2009**, 131, 146-154	2.4	137
203	Alkali metal crystalline polymer electrolytes. *Nature Materials*, **2009**, 8, 580-4	27	144
202	Tailoring the pore size/wall thickness of mesoporous transition metal oxides. *Microporous and Mesoporous Materials*, **2009**, 121, 90-94	5.3	37
201	Infrared and Raman spectroscopy of nanostructured LT-LiCoO2 cathodes for Li-ion rechargeable batteries. *Vibrational Spectroscopy*, **2009**, 51, 248-250	2.1	15
200	Diffusion in Confined Dimensions: Li+ Transport in Mixed Conducting TiO2-B Nanowires. *Journal of Physical Chemistry C*, **2009**, 113, 4741-4744	3.8	41
199	Neutron Diffraction Study of Mesoporous and Bulk Hematite, α-Fe2O3. *Chemistry of Materials*, **2008**, 20, 4891-4899	9.6	115
198	Synthesis of tetrahedral LiFeO2 and its behavior as a cathode in rechargeable lithium batteries. *Journal of the American Chemical Society*, **2008**, 130, 3554-9	16.4	61
197	A Stoichiometric Nano-LiMn2O4 Spinel Electrode Exhibiting High Power and Stable Cycling. *Chemistry of Materials*, **2008**, 20, 5557-5562	9.6	179
196	Synthesis of ordered mesoporous NiO with crystalline walls and a bimodal pore size distribution. *Journal of the American Chemical Society*, **2008**, 130, 5262-6	16.4	256
195	Nano-LiNi(0.5)Mn(1.5)O(4) spinel: a high power electrode for Li-ion batteries. *Dalton Transactions*, **2008**, 5471-5	4.3	162
194	Structure and Conductivity of Small-Molecule Electrolytes [CH3O(CH2CH2O)nCH3]:LiAsF6 (n = 8-12). *Chemistry of Materials*, **2008**, 20, 4039-4044	9.6	27
193	Demonstrating structural deformation in an inorganic nanotube. *Journal of the American Chemical Society*, **2008**, 130, 9931-4	16.4	25
192	The synthesis and lithium intercalation electrochemistry of VO2(B) ultra-thin nanowires. *Journal of Power Sources*, **2008**, 178, 723-728	8.9	91
191	Nanomaterials for rechargeable lithium batteries. *Angewandte Chemie - International Edition*, **2008**, 47, 2930-46	16.4	5042

190	Alpha-MnO2 nanowires: a catalyst for the O2 electrode in rechargeable lithium batteries. *Angewandte Chemie - International Edition*, **2008**, 47, 4521-4	16.4	767
189	Synthesis of ordered mesoporous Li-Mn-O spinel as a positive electrode for rechargeable lithium batteries. *Angewandte Chemie - International Edition*, **2008**, 47, 9711-6	16.4	193
188	Energy storage beyond the horizon: Rechargeable lithium batteries. *Solid State Ionics*, **2008**, 179, 752-760	9.3	248
187	Doping crystalline polymer electrolytes with glymes. *Journal of Materials Chemistry*, **2007**, 17, 3222		11
186	The lithium intercalation compound Li2CoSiO4 and its behaviour as a positive electrode for lithium batteries. *Chemical Communications*, **2007**, 4890-2	5.8	132
185	Factors influencing the conductivity of crystalline polymer electrolytes. *Faraday Discussions*, **2007**, 134, 143-56; discussion 215-33, 415-9	3.6	53
184	The reaction of lithium with CuCr2S4 lithium intercalation and copper displacement/extrusion. *Journal of Materials Chemistry*, **2007**, 17, 3238		24
183	Structural Evolution of Layered LixMnyO2: Combined Neutron, NMR, and Electrochemical Study. *Chemistry of Materials*, **2007**, 19, 1016-1023	9.6	34
182	Mesoporous and nanowire Co3O4 as negative electrodes for rechargeable lithium batteries. *Physical Chemistry Chemical Physics*, **2007**, 9, 1837-42	3.6	363
181	Crystalline small-molecule electrolytes. *Angewandte Chemie - International Edition*, **2007**, 46, 2848-50	16.4	40
180	Ordered three-dimensional arrays of monodispersed Mn3O4 nanoparticles with a core-shell structure and spin-glass behavior. *Angewandte Chemie - International Edition*, **2007**, 46, 3946-50	16.4	30
179	Mesoporous Crystalline MnO2 Reversible Positive Electrode for Rechargeable Lithium Batteries. *Advanced Materials*, **2007**, 19, 657-660	24	460
178	Mesoporous Mn2O3 and Mn3O4 with Crystalline Walls. *Advanced Materials*, **2007**, 19, 4063-4066	24	147
177	Macroporous Li(Ni1/3Co1/3Mn1/3)O2: A high-rate positive electrode for rechargeable lithium batteries. *Journal of Power Sources*, **2007**, 174, 1201-1205	8.9	32
176	An O2 cathode for rechargeable lithium batteries: The effect of a catalyst. *Journal of Power Sources* , **2007**, 174, 1177-1182	8.9	519
175	Factors Influencing the Rate of Fe[sub 2]O[sub 3] Conversion Reaction. *Electrochemical and Solid-State Letters*, **2007**, 10, A264		76
174	Ionic conductivity in the solid glyme complexes [CH3O(CH2CH2O)(n)CH3]:LiAsF6 (n = 3,4). *Journal of the American Chemical Society*, **2007**, 129, 8700-1	16.4	41
173	Macroporous Li(Ni1/3Co1/3Mn1/3)O2: A High-Power and High-Energy Cathode for Rechargeable Lithium Batteries. *Advanced Materials*, **2006**, 18, 2330-2334	24	206

172	TiO2(B) Nanowires as an Improved Anode Material for Lithium-Ion Batteries Containing LiFePO4 or LiNi0.5Mn1.5O4 Cathodes and a Polymer Electrolyte. *Advanced Materials*, **2006**, 18, 2597-2600	24	345
171	Effect of Catalyst on the Performance of Rechargeable Lithium/Air Batteries.. *ECS Transactions*, **2006**, 3, 225-232	1	18
170	Demonstrating oxygen loss and associated structural reorganization in the lithium battery cathode Li[Ni0.2Li0.2Mn0.6]O2. *Journal of the American Chemical Society*, **2006**, 128, 8694-8	16.4	1235
169	Ion-polyether coordination complexes: crystalline ionic conductors for clean energy storage. *Dalton Transactions*, **2006**, 1365-9	4.3	41
168	Synthesis of ordered mesoporous Fe3O4 and gamma-Fe2O3 with crystalline walls using post-template reduction/oxidation. *Journal of the American Chemical Society*, **2006**, 128, 12905-9	16.4	293
167	TiO[sub 2](B) Nanotubes as Negative Electrodes for Rechargeable Lithium Batteries. *Electrochemical and Solid-State Letters*, **2006**, 9, A139		181
166	Ordered mesoporous Fe2O3 with crystalline walls. *Journal of the American Chemical Society*, **2006**, 128, 5468-74	16.4	360
165	Ionic conductivity in crystalline PEO6:Li(AsF6)1-x(SbF6)x. *Journal of the American Chemical Society*, **2006**, 128, 12036-7	16.4	39
164	Rechargeable LI2O2 electrode for lithium batteries. *Journal of the American Chemical Society*, **2006**, 128, 1390-3	16.4	977
163	Layered LixMn1-yLiyO2 intercalation electrodes: synthesis, structure and electrochemistry. *Journal of Materials Chemistry*, **2005**, 15, 218-224		12
162	Structure and conductivity of the crystalline polymer electrolyte beta-PEO6:LiAsF6. *Journal of the American Chemical Society*, **2005**, 127, 12176-7	16.4	41
161	Raising the conductivity of crystalline polymer electrolytes by aliovalent doping. *Journal of the American Chemical Society*, **2005**, 127, 18305-8	16.4	56
160	Nanotubes with the TiO2-B structure. *Chemical Communications*, **2005**, 2454-6	5.8	276
159	Crystal Structures of Poly(Ethylene Oxide)3:LiBF4 and (Diglyme)n:LiBF4 (n = 1,2). *Chemistry of Materials*, **2005**, 17, 767-772	9.6	48
158	TiO2-B nanowires as negative electrodes for rechargeable lithium batteries. *Journal of Power Sources*, **2005**, 146, 501-506	8.9	204
157	Overcharging manganese oxides: Extracting lithium beyond Mn4+. *Journal of Power Sources*, **2005**, 146, 275-280	8.9	103
156	Nanostructured materials for advanced energy conversion and storage devices. *Nature Materials*, **2005**, 4, 366-77	27	7496
155	Increasing the conductivity of crystalline polymer electrolytes. *Nature*, **2005**, 433, 50-3	50.4	356

154	Energy materials. *Solid State Sciences*, **2005**, 7, 1456-1463	3.4	37
153	Synthesis of nanowire and mesoporous low-temperature LiCoO2 by a post-templating reaction. *Angewandte Chemie - International Edition*, **2005**, 44, 6550-3	16.4	253
152	Synthesis of Nanowire and Mesoporous Low-Temperature LiCoO2 by a Post-Templating Reaction. *Angewandte Chemie*, **2005**, 117, 6708-6711	3.6	36
151	Lithium-Ion Intercalation into TiO2-B Nanowires. *Advanced Materials*, **2005**, 17, 862-865	24	747
150	Overcapacity of Li[Ni[sub x]Li[sub 1/3⁄2x/3]Mn[sub 2/3⁄2/3]]O[sub 2] Electrodes. *Electrochemical and Solid-State Letters*, **2004**, 7, A294		73
149	Influence on the First Charge Capacity of Layered Li-Mn-O-Based Electrodes by Combining Stoichiometric and Nonstoichiometric Materials. *Electrochemical and Solid-State Letters*, **2004**, 7, A331		2
148	Electrochemistry Beyond Mn[sup 4+] in Li[sub x]Mn[sub 1⁄y]Li[sub y]O[sub 2]. *Electrochemical and Solid-State Letters*, **2004**, 7, A1		36
147	Stoichiometric LiMnO[sub 2] with a Layered Structure. *Journal of the Electrochemical Society*, **2004**, 151, A1552	3.9	14
146	Structure of the Poly(ethylene oxide)-Zinc Chloride Complex. *Angewandte Chemie - International Edition*, **2004**, 43, 2103-5	16.4	15
145	TiO(2)-B nanowires. *Angewandte Chemie - International Edition*, **2004**, 43, 2286-8	16.4	670
144	WO2Cl2 Nanotubes and Nanowires. *Angewandte Chemie - International Edition*, **2004**, 43, 4899-902	16.4	18
143	Two- and three-dimensional mesoporous iron oxides with microporous walls. *Angewandte Chemie - International Edition*, **2004**, 43, 5958-61	16.4	67
142	TiO2-B Nanowires. *Angewandte Chemie*, **2004**, 116, 2336-2338	3.6	68
141	Two- and Three-Dimensional Mesoporous Iron Oxides with Microporous Walls. *Angewandte Chemie*, **2004**, 116, 6084-6087	3.6	17
140	The structure of poly(ethylene oxide)8: NaBPh4 from a single crystal oligomer and polycrystalline polymer. *Chemical Communications*, **2004**, 148-9	5.8	11
139	Combined Neutron Diffraction, NMR, and Electrochemical Investigation of the Layered-to-Spinel Transformation in LiMnO2. *Chemistry of Materials*, **2004**, 16, 3106-3118	9.6	97
138	Ionic conductivity in the crystalline polymer electrolytes PEO6:LiXF6, X = P, As, Sb. *Journal of the American Chemical Society*, **2003**, 125, 4619-26	16.4	242
137	Vibrational Study of the Crystalline Phases of (CH3(OCH2CH2)2OCH3)2LiSbF6 and P(EO)6LiMF6 (M = P, As, Sb). *Journal of Physical Chemistry B*, **2003**, 107, 11255-11260	3.4	16

136	Mechanism of Electrochemical Activity in Li2MnO3. *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 LixMnyO2 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 LiMnO2. *Physical Review B*, **2003**, 68,	3.3	24
132	Ab Initio Structure Solution of the Polymer Electrolyte Poly(ethylene oxide)3:LiAsF6. *Chemistry of Materials*, **2002**, 14, 2166-2170	9.6	23
131	Nonstoichiometric Layered LixMnyO2 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 Li2MnO3. *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	0.4	
126	Structures of the Polymer Electrolyte Complexes PEO6:LiXF6 (X = P, Sb), Determined from Neutron Powder Diffraction Data. *Chemistry of Materials*, **2001**, 13, 1282-1285	9.6	99
125	Lix(Mn1 yCoy)O2 intercalation compounds as electrodes for lithium batteries: influence ofion exchange on structure and performance. *Journal of Materials Chemistry*, **2001**, 11, 113-118		40
124	Layered LixMn1-yCoyO2 Intercalation ElectrodesInfluence 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 defectchemistry and performance of cobalt doped layered lithium manganese oxidebased 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 LixMn1 yNiyO2 intercalation electrodes. *Journal of Materials Chemistry*, **2000**, 10, 2838-2841		48

118	Capacity Loss of Lithium Manganese Oxide Spinel in LiPF6 / Ethylene Carbonate-Dimethyl Carbonate Electrolytes. *Journal of the Electrochemical Society*, **1999**, 146, 481-485	3.9	43
117	Correlating Capacity Loss of Stoichiometric and Nonstoichiometric Lithium Manganese Oxide Spinel Electrodes with Their Structural Integrity. *Journal of the Electrochemical Society*, **1999**, 146, 3649-3654	3.9	87
116	Structure of the polymer electrolyte poly(ethylene oxide)6:LiAsF6. *Nature*, **1999**, 398, 792-794	50.4	353
115	Structural transformation on cycling layered Li(Mn1-yCoy)O2 cathode materials. *Electrochimica Acta*, **1999**, 45, 285-294	6.7	60
114	The Layered Intercalation Compounds Li(Mn1-yCoy)O2: Positive Electrode Materials for Lithium-Ion Batteries. *Journal of Solid State Chemistry*, **1999**, 145, 549-556	3.3	80
113	An Oxygen-Rich Pyrochlore with Fluorite Composition. *Journal of Solid State Chemistry*, **1999**, 148, 56-62	3.3	47
112	New intercalation compounds for lithium batteries: layered LiMnO2. *Journal of Materials Chemistry*, **1999**, 9, 193-198		180
111	Structural Characterization of Layered LiMnO2 Electrodes by Electron Diffraction and Lattice Imaging. *Journal of the Electrochemical Society*, **1999**, 146, 2404-2412	3.9	141
110	Crystalline and Amorphous Phases in the Poly(ethylene oxide)-LiCF3SO3 System. *Macromolecules*, **1999**, 32, 808-813	5.5	109
109	A New ab initio Powder Method and Profile Refinement in Materials Design: Application to Polymer Electrolytes **1999**, 119-133		
108	Improving the performance of graphite anodes in rechargeable lithium batteries. *Journal of Power Sources*, **1998**, 75, 144-150	8.9	11
107	An NMR investigation of the formation of the crystalline complex (PEO)3NaClO4. *Solid State Ionics*, **1998**, 107, 13-23	3.3	6
106	Structure of the polymer-salt co-ordination complex [(CH2CH2O)n]: KCF3SO3, obtained from powder diffraction data. *Journal of the Chemical Society Dalton Transactions*, **1998**, 1073-1076		6
105	Solving crystal structures of molecular solids without single crystals: a simulated annealing approach. *Journal of the Chemical Society Dalton Transactions*, **1998**, 4071-4080		32
104	Li0.44MnO2: an intercalation electrode with a tunnel structure and excellent cyclability. *Journal of Materials Chemistry*, **1998**, 8, 255-259		52
103	Solution of Flexible Structures from Powder Diffraction Data Using a Simulated Annealing Technique. *Materials Science Forum*, **1998**, 278-281, 14-19	0.4	3
102	Solid-state chemistry of lithium power sources. *Chemical Communications*, **1997**, 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. *Physical Review B*, **1997**, 55, 12011-12017	3.3	79

100	Structure of an amorphous polymer electrolyte, poly(ethyleneoxide)3:LiCF3SO3. *Chemical Communications*, **1997**, 157-158	5.8	64
99	New and optimised lithium manganese oxide cathodes for rechargeable lithium batteries. *Journal of Power Sources*, **1997**, 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. *Journal of Applied Crystallography*, **1997**, 30, 294-305	3.8	67
97	Impedance spectroscopy of teeth with and without approximal caries lesions--an in vitro study. *Journal of Dental Research*, **1996**, 75, 1871-8	8.1	36
96	An interstitial pyrochlore formed by chemical intercalation of oxygen. *Chemical Communications*, **1996**, 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. *Chemical Communications*, **1996**, 2169	5.8	81
94	A New Class of Pyrochlore Solid Solution Formed by Chemical Intercalation of Oxygen. *Journal of the American Chemical Society*, **1996**, 118, 11129-11133	16.4	54
93	Ab initio structure solution of a novel aluminium methylphosphonate from laboratory X-ray powder diffraction data. *Journal of the Chemical Society Dalton Transactions*, **1996**, 3159		12
92	Structure of polymer electrolytes: the crystal structure of poly(ethylene oxide)4:RbSCN. *Solid State Ionics*, **1996**, 85, 203-208	3.3	19
91	Detection of dental decay and its extent using a.c. impedance spectroscopy. *Nature Medicine*, **1996**, 2, 235-7	50.5	43
90	Synthesis of layered LiMnO2 as an electrode for rechargeable lithium batteries. *Nature*, **1996**, 381, 499-500	36.4	1151
89	Determination of polymer electrolyte structures by X-ray powder diffraction. *Acta Crystallographica Section A: Foundations and Advances*, **1996**, 52, C395-C395		3
88	3 V and 4 V lithium manganese oxide cathodes for rechargeable lithium batteries. *Journal of Power Sources*, **1995**, 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. *Journal of Electroanalytical Chemistry*, **1995**, 384, 85-91	4.1	1
86	Polymer electrolytes: structure and electrode processes. *Solid State Ionics*, **1995**, 78, 191-198	3.3	21
85	Combined X-ray and neutron powder diffraction study of magnesium-doped lithium niobate. *Journal of Materials Chemistry*, **1995**, 5, 1039		3
84	Structure and electrochemistry of polymer electrolytes. *Electrochimica Acta*, **1995**, 40, 2077-2085	6.7	88
83	The polymer electrolyte/electrode interface. *Electrochimica Acta*, **1995**, 40, 2159-2164	6.7	4

82	A 3 Volt Lithium Manganese Oxide Cathode for Rechargeable Lithium Batteries. *Journal of the Electrochemical Society*, **1994**, 141, L76-L77	3.9	15
81	A 4 V Lithium Manganese Oxide Cathode for Rocking-Chair Lithium-Ion Cells. *Journal of the Electrochemical Society*, **1994**, 141, L106-L107	3.9	35
80	Structure of ⍺Li3AsO4 by High Temperature Powder Neutron Diffraction. *Journal of Solid State Chemistry*, **1994**, 110, 243-249	3.3	5
79	The electrical double layer at the interface between mercury and a polyether electrolyte. *Journal of Electroanalytical Chemistry*, **1994**, 364, 163-169	4.1	5
78	The crystal and molecular structure of tribenzylsilanol by Rietveld refinement of powder X-ray diffraction data. *Journal of Organometallic Chemistry*, **1994**, 466, 51-54	2.3	6
77	Crystal Structure Determination from Powder Diffraction Data by Monte Carlo Methods. *Journal of the American Chemical Society*, **1994**, 116, 3543-3547	16.4	261
76	Structure of LiN(CF3SO2)2, a novel salt for electrochemistry. *Journal of Materials Chemistry*, **1994**, 4, 1579		104
75	Ab initio determination of crystal structures by X-ray powder diffraction: structure of Li29Zr9Nb3O40. *Journal of Materials Chemistry*, **1994**, 4, 167		6
74	Probing molecular motion by solid-state NMR spectroscopy and high resolution powder X-ray diffraction. *Journal of the Chemical Society Chemical Communications*, **1994**, 209		3
73	Crystal Structures of the Polymer Electrolytes Poly(ethylene oxide)4:MSCN (M = NH4, K). *Journal of the American Chemical Society*, **1994**, 116, 7469-7470	16.4	45
72	Crystal Structure of the Polymer Electrolyte Poly(ethylene oxide)3:LiCF3SO3. *Science*, **1993**, 262, 883-5	33.3	355
71	Phase diagram of the poly(ethylene oxide):calcium trifluoromethanesulfonate system. *Chemistry of Materials*, **1993**, 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. *Journal of the Chemical Society Perkin Transactions II*, **1993**, 1625		8
69	Polymer electrolytes. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 3187		379
68	Three-electrode cell system for the study of reversible cathodes in rechargeable lithium batteries. *Measurement Science and Technology*, **1993**, 4, 1515-1518	2	1
67	The Disordered Structure of WO2Cl2: A Powder Diffraction Study. *Journal of Solid State Chemistry*, **1993**, 102, 140-145	3.3	10
66	Li6Zr2O7, a New Anion Vacancy ccp Based Structure, Determined by ab initio Powder Diffraction Methods. *Journal of Solid State Chemistry*, **1993**, 104, 397-403	3.3	17
65	Constant-voltage polarization of symmetric polymer electrolyte cells with non-blocking electrodes. *Polymers for Advanced Technologies*, **1993**, 4, 144-151	3.2	1

64	Two-and three-electrode studies of cycling in experimental polymer electrolyte cells. *Journal of Power Sources*, **1993**, 44, 461-465	8.9	3
63	Polymer Electrolytes and Intercalation Electrodes : Fundamentals and Applications **1993**, 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. *Journal of Materials Chemistry*, **1992**, 2, 361		20
61	Structure of the cubic intercalate MgxTiS2. *Journal of Materials Chemistry*, **1992**, 2, 139		29
60	Structure of the poly(ethylene oxide)–sodium perchlorate complex PEO3NaClO4 from powder X-ray diffraction data. *Journal of Materials Chemistry*, **1992**, 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. *Journal of Materials Chemistry*, **1992**, 2, 1301		19
58	Determination of a molecular crystal structure by X-ray powder diffraction on a conventional laboratory instrument. *Journal of the Chemical Society Chemical Communications*, **1992**, 1012		40
57	Temperature dependence of sodium ion diffusion in NaxWO2Cl2. *Solid State Ionics*, **1992**, 50, 41-45	3.3	2
56	A novel electrochemical source of potassium for doping IIVI compounds. *Solid State Ionics*, **1992**, 57, 1-5	3.3	5
55	Vacancy diffusion in the intercalation electrode Li1-xNiO2. *Solid State Ionics*, **1992**, 57, 353-358	3.3	49
54	A two-step model of intercalation. *Solid State Ionics*, **1992**, 51, 187-190	3.3	36
53	The determination of transference numbers in solid polymer electrolytes using the Hittorf method. *Solid State Ionics*, **1992**, 53-56, 1087-1094	3.3	82
52	Ab initio structure determination of LiCF3SO3 from X-ray powder diffraction data using entropy maximization and likelihood ranking. *Journal of Solid State Chemistry*, **1992**, 100, 191-196	3.3	53
51	A zinc trifluoromethane sulphonate polymer electrolyte. *Electrochimica Acta*, **1992**, 37, 1707-1710	6.7	2
50	Structure of potassium strontium cuprate, K0.95Sr0.05CuO2. *Acta Crystallographica Section C: Crystal Structure Communications*, **1992**, 48, 731-733		0
49	dc Polarization of polymer electrolytes. *Electrochimica Acta*, **1992**, 37, 1517-1520	6.7	21
48	The perfectly polarized polymer electrolyte/electrode interface. *Electrochimica Acta*, **1992**, 37, 1525-1526	6.7	3
47	Intercalation compounds: Some recent developments and future trends in mixed conductors. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1991**, 64, 1101-1112		3

46	Structure of the intercalate NaWO2Cl2. *Journal of Solid State Chemistry*, **1991**, 94, 254-259	3.3	5
45	A defect cluster model for ion migration in solid electrolytes. *Journal of Solid State Chemistry*, **1991**, 95, 74-82	3.3	14
44	Defect clustering in the superionic conductor lithium germanium vanadate. *Acta Crystallographica Section B: Structural Science*, **1991**, 47, 696-701		16
43	Comparison of the cubic and layered polymorphs of titanium disulphide. *Electrochimica Acta*, **1991**, 36, 569-575	6.7	8
42	Polymer Electrolytes with the Multivalent Cations Hg2+ and La3+. *Materials Science Forum*, **1991**, 42, 193-198	0.4	6
41	Chemical Intercalation of Divalent Cations. *Materials Science Forum*, **1991**, 76, 61-64	0.4	
40	Ionic transport in polymer electrolytes. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1991**, 64, 1091-1099		22
39	Ion association in polymer electrolytes: transport and materials optimization. *Synthetic Metals*, **1991**, 45, 267-278	3.6	22
38	Chemical intercalation of magnesium into solid hosts. *Journal of Materials Chemistry*, **1991**, 1, 705		70
37	Synthesis and structure of LiCaPo4 by combined X-ray and neutron powder diffraction. *Journal of Materials Chemistry*, **1991**, 1, 1061		31
36	The mechanism of lithium ion mobility in solid electrolytes. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1991**, 64, 1113-1118		6
35	Refinement of the LixCu0.07Ti2.05S4 structure by powder neutron diffraction. *Materials Research Bulletin*, **1990**, 25, 533-538	5.1	9
34	Variation of the preexponential factor and activation energy for lithium diffusion in cubic titanium disulfide. *Journal of Solid State Chemistry*, **1990**, 88, 411-418	3.3	9
33	Sodium intercalation into the defect garnets Fe2(MoO4)3 and Fe2(WO4)3. *Journal of Solid State Chemistry*, **1990**, 89, 162-166	3.3	21
32	Sodium intercalation into WO2Cl2. *Journal of Solid State Chemistry*, **1990**, 89, 202-207	3.3	6
31	An anhydrous polymer electrolyte containing trivalent cations: Poly(ethylene oxide):La(ClO4)3. *Solid State Ionics*, **1990**, 38, 231-234	3.3	21
30	The Processing of Unfair Labor Practice Cases in the United States and Ontario. *Industrial Relations*, **1990**, 45, 481-511	0.4	3
29	A re-examination of the lisicon structure using high-resolution powder neutron diffraction: evidence for defect clustering. *Acta Crystallographica Section B: Structural Science*, **1989**, 45, 457-462		20

28	Political Parties and Labour legislation in Canada and the U.S.. *Industrial Relations*, **1989**, 28, 115-141	1.5	21
27	Characterisation of the electrode/electrolyte interfaces in cells of the type Li/PEO_LiCF3SO3/V6O13 by ac impedance methods. *Solid State Ionics*, **1989**, 36, 171-174	3.3	35
26	Steady state current flow in solid binary electrolyte cells. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1989**, 271, 27-34		32
25	Refinement of the lithium distribution in Li2Ti3O7 using high-resolution powder neutron diffraction. *Journal of Solid State Chemistry*, **1989**, 78, 170-177	3.3	32
24	Structure determination of substituted rutiles by time-of-flight neutron diffraction. *Chemistry of Materials*, **1989**, 1, 237-240	9.6	28
23	Effect of ion association on transport in polymer electrolytes. *Faraday Discussions of the Chemical Society*, **1989**, 88, 43		74
22	Studies of the interface between V6O13 and poly(ethylene oxide) based electrolytes. *Electrochimica Acta*, **1988**, 33, 1669-1674	6.7	27
21	Preliminary results on a new polymer electrolyte, poly(ethyleneoxide)-Hg(ClO4)2. *British Polymer Journal*, **1988**, 20, 193-194		5
20	Preparation and characterisation of PEOHg(ClO4)2 complexes and some thoughts on ion transport in polymer electrolytes. *Solid State Ionics*, **1988**, 27, 81-88	3.3	21
19	Structure determination of LISICON solid solutions by powder neutron diffraction. *Journal of Solid State Chemistry*, **1988**, 75, 390-396	3.3	23
18	Electrochemical measurement of transference numbers in polymer electrolytes. *Polymer*, **1987**, 28, 2324-2328	3.7	1217
17	A dc technique for measurement of solid electrolyte conductivity. *Solid State Ionics*, **1987**, 25, 255-262	3.3	8
16	Structural refinement of delithiated LiVO2 by neutron diffraction. *Journal of Solid State Chemistry*, **1987**, 67, 285-290	3.3	31
15	Steady state current flow in solid binary electrolyte cells. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 225, 1-17		433
14	High and low frequency Jonscher behaviour of an ionically conducting glass. *Solid State Ionics*, **1985**, 15, 247-251	3.3	26
13	Lithium mobility in the layered oxide Li1⊠CoO2. *Solid State Ionics*, **1985**, 17, 13-19	3.3	135
12	AC Impedance Analysis of Polycrystalline Insertion Electrodes: Application to Li1 ⊡x CoO2. *Journal of the Electrochemical Society*, **1985**, 132, 1521-1528	3.9	258
11	Lithium insertion into ⊡MnO2 and the rutile-spinel transformation. *Materials Research Bulletin*, **1984**, 19, 99-106	5.1	91

10	Electrochemical extraction of lithium from LiMn2O4. *Materials Research Bulletin*, **1984**, 19, 179-187	5.1	704
9	Structural characterization of delithiated LiVO2. *Materials Research Bulletin*, **1984**, 19, 1497-1506	5.1	107
8	Ion trapping and its effect on the conductivity of LISICON and other solid electrolytes. *Journal of Solid State Chemistry*, **1984**, 53, 430-434	3.3	16
7	Periodic arrays of identical ions packed with 10, 11, and 12 nearest neighbors. *Journal of Solid State Chemistry*, **1983**, 50, 235-239	3.3	4
6	The A-C Conductivity of Polycrystalline LISICON, Li2 + 2x Zn1 □x GeO4, and a Model for Intergranular Constriction Resistances. *Journal of the Electrochemical Society*, **1983**, 130, 662-669	3.9	223
5	Lithium insertion into manganese spinels. *Materials Research Bulletin*, **1983**, 18, 461-472	5.1	1265
4	Tetragonal-packed crystal structures. *Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry*, **1982**, 38, 1891-1896		47
3	Ionic conductivity of LISICON solid solutions, Li2+2xZn1⊠GeO4. *Journal of Solid State Chemistry*, **1982**, 44, 354-365	3.3	86
2	A new analysis of ac conductivity data in single crystal ⊞alumina. *Solid State Ionics*, **1982**, 7, 57-60	3.3	40
1	Phase diagram of the LISICON, solid electrolyte system, Li4GeO4-Zn2GeO4. *Materials Research Bulletin*, **1980**, 15, 379-385	5.1	51