

Helmut Ehrenberg

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518
papers

13,346
citations

54
h-index

90
g-index

622
ext. papers

15,257
ext. citations

5.4
avg, IF

6.48
L-index

#	Paper	IF	Citations
518	Giant strain in lead-free piezoceramics $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{BaTiO}_3\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ system. <i>Applied Physics Letters</i> , 2007 , 91, 112906	3.4	660
517	Structure and dynamics of the fast lithium ion conductor "Li ₇ La ₃ Zr ₂ O ₁₂ ". <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19378-92	3.6	446
516	Fundamental degradation mechanisms of layered oxide Li-ion battery cathode materials: Methodology, insights and novel approaches. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 192, 3-25	3.1	287
515	Phase Transitions Occurring upon Lithium Insertion/Extraction of LiCoPO_4 . <i>Chemistry of Materials</i> , 2007 , 19, 908-915	9.6	213
514	Lead-free piezoceramics with giant strain in the system $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{BaTiO}_3\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$. II. Temperature dependent properties. <i>Journal of Applied Physics</i> , 2008 , 103, 034108	2.5	180
513	Understanding structural changes in NMC Li-ion cells by in situ neutron diffraction. <i>Journal of Power Sources</i> , 2014 , 255, 197-203	8.9	179
512	On the Energetic Stability and Electrochemistry of $\text{Li}_2\text{MnSiO}_4$ Polymorphs. <i>Chemistry of Materials</i> , 2008 , 20, 5574-5584	9.6	170
511	Field-induced phase transition in $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -based lead-free piezoelectric ceramics. <i>Journal of Applied Crystallography</i> , 2010 , 43, 1314-1321	3.8	162
510	Calcium carbonate modifications in the mineralized shell of the freshwater snail <i>Biomphalaria glabrata</i> . <i>Chemistry - A European Journal</i> , 2000 , 6, 3679-85	4.8	161
509	Chemical, Structural, and Electronic Aspects of Formation and Degradation Behavior on Different Length Scales of Ni-Rich NCM and Li-Rich HE-NCM Cathode Materials in Li-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1900985	24	152
508	The synchrotron powder diffractometer at beamline B2 at HASYLAB/DESY: status and capabilities. <i>Journal of Synchrotron Radiation</i> , 2004 , 11, 328-34	2.4	140
507	Sodium vanadium titanium phosphate electrode for symmetric sodium-ion batteries with high power and long lifespan. <i>Nature Communications</i> , 2017 , 8, 15888	17.4	136
506	Iron-oxygen vacancy defect centers in PbTiO_3 : Newman superposition model analysis and density functional calculations. <i>Physical Review B</i> , 2005 , 71,	3.3	133
505	Changes in the crystal and electronic structure of LiCoO_2 and LiNiO_2 upon Li intercalation and de-intercalation. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3278-89	3.6	132
504	Lithium Diffusion Pathway in $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ (LATP) Superionic Conductor. <i>Inorganic Chemistry</i> , 2016 , 55, 2941-5	5.1	131
503	Synthesis and characterization of Carbon Nano Fiber/ LiFePO_4 composites for Li-ion batteries. <i>Journal of Power Sources</i> , 2008 , 180, 553-560	8.9	131
502	Position-sensitive detector system OBI for High Resolution X-Ray Powder Diffraction using on-site readable image plates. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 521, 565-570	1.2	126

501	Electrochemical intercalation of lithium in ternary metal molybdates MMoO_4 (M: Cu, Zn, Ni and Fe). <i>Journal of Power Sources</i> , 2004 , 127, 76-84	8.9	126
500	Developments in nanostructured LiMPO_4 (M = Fe, Co, Ni, Mn) composites based on three dimensional carbon architecture. <i>Chemical Society Reviews</i> , 2012 , 41, 5068-80	58.5	124
499	From order to disorder: The structure of lithium-conducting garnets $\text{Li}_7\text{La}_3\text{Ta}_x\text{Zr}_{2-x}\text{O}_{12}$ (x = 0). <i>Solid State Ionics</i> , 2012 , 206, 33-38	3.3	123
498	Low-temperature performance of Li-ion batteries: The behavior of lithiated graphite. <i>Journal of Power Sources</i> , 2015 , 282, 235-240	8.9	120
497	Electrochemical and structural study of LiCoPO_4 -based electrodes. <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 558	2.6	112
496	In-operando neutron scattering studies on Li-ion batteries. <i>Journal of Power Sources</i> , 2012 , 203, 126-129	8.9	111
495	Lithium Intercalation into Graphitic Carbons Revisited: Experimental Evidence for Twisted Bilayer Behavior. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A3198-A3205	3.9	101
494	Average vs. local structure and composition-property phase diagram of $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3\text{-BiNaTiO}_3$ system. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1387-1399	6	93
493	Metal-Support Interactions of Platinum Nanoparticles Decorated N-Doped Carbon Nanofibers for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 82-90	9.5	91
492	Fatigue of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ in commercial Li ion batteries. <i>Journal of Power Sources</i> , 2015 , 273, 70-82	8.9	84
491	The stability of the SEI layer, surface composition and the oxidation state of transition metals at the electrolyte-cathode interface impacted by the electrochemical cycling: X-ray photoelectron spectroscopy investigation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12321-31	3.6	84
490	Crystal structure and microstructure of some $\text{La}_{(2/3-x)}\text{Li}_{3x}\text{TiO}_3$ oxides: an example of the complementary use of electron diffraction and microscopy and synchrotron X-ray diffraction to study complex materials. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3587-96	16.4	84
489	Large strain response based on relaxor-antiferroelectric coherence in $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-BrTiO}_3\text{(K}_{0.5}\text{Na}_{0.5}\text{)NbO}_3$ solid solutions. <i>Journal of Applied Physics</i> , 2014 , 116, 184104	2.5	83
488	$\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ composite as the intercalation-type anode material for sodium-ion batteries with superior rate capability and long-cycle life. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8636-8642	13	81
487	Precursor-based synthesis and electrochemical performance of LiMnPO_4 . <i>Journal of Alloys and Compounds</i> , 2008 , 464, 259-264	5.7	81
486	Thermal Stability of LiCoPO_4 Cathodes. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, A89		81
485	Short-range order of $\text{Zr}_{62}\text{Ti}_x\text{Al}_{10}\text{Cu}_{20}\text{Ni}_8$ bulk metallic glasses. <i>Acta Materialia</i> , 2002 , 50, 305-314	8.4	81
484	Study of the effect of different synthesis routes on Li extraction/insertion from LiCoPO_4 . <i>Journal of Power Sources</i> , 2005 , 145, 74-81	8.9	81

483	Effect of oxygen plasma treatment on the electrochemical performance of the rayon and polyacrylonitrile based carbon felt for the vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2016 , 332, 240-248	8.9	80
482	Structural insights into the formation and voltage degradation of lithium- and manganese-rich layered oxides. <i>Nature Communications</i> , 2019 , 10, 5365	17.4	79
481	Crystal and magnetic structures of electrochemically delithiated $\text{Li}_{1-x}\text{CoPO}_4$ phases. <i>Solid State Sciences</i> , 2009 , 11, 18-23	3.4	78
480	Carbon materials for the positive electrode in all-vanadium redox flow batteries. <i>Carbon</i> , 2014 , 78, 220-230	10.4	72
479	Intercalation-driven reversible control of magnetism in bulk ferromagnets. <i>Advanced Materials</i> , 2014 , 26, 4639-44	24	71
478	Structural, magnetic, dielectric properties of multiferroic GaFeO_3 prepared by solid state reaction and sol-gel methods. <i>Journal of Alloys and Compounds</i> , 2010 , 492, L20-L27	5.7	71
477	Unraveling the Degradation Process of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Electrodes in Commercial Lithium Ion Batteries by Electronic Structure Investigations. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19589-6006	8.5	64
476	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. <i>Journal of Power Sources</i> , 2020 , 448, 227575	8.9	64
475	Pseudocapacitance of Mesoporous Spinel-Type MCoO (M = Co, Zn, and Ni) Rods Fabricated by a Facile Solvothermal Route. <i>ACS Omega</i> , 2017 , 2, 6003-6013	3.9	61
474	Fatigue Process in Li-Ion Cells: An In Situ Combined Neutron Diffraction and Electrochemical Study. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A2082-A2088	3.9	61
473	Magnetic phase diagrams of. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 3189-3203	1.8	61
472	Temperature and composition dependence of crystal structures and magnetic and electronic properties of the double perovskites $\text{La}_{2-x}\text{Sr}_x\text{Co}_2\text{O}_6$ ($0 \leq x \leq 1$). <i>Physical Review B</i> , 2010 , 82,	3.3	58
471	The tautomeric forms of cyameluric acid derivatives. <i>Chemistry - A European Journal</i> , 2007 , 13, 1158-73	4.8	58
470	Optical and luminescence studies of ZnMoO_4 using vacuum ultraviolet synchrotron radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 562, 513-516	1.2	57
469	Surface properties and graphitization of polyacrylonitrile based fiber electrodes affecting the negative half-cell reaction in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2016 , 321, 210-218	8.9	57
468	Improvement of the electrochemical performance of nanosized MnO_2 used as cathode material for Li-batteries by Sn-doping. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9669-9674	5.7	56
467	Moving to Aqueous Binder: A Valid Approach to Achieving High-Rate Capability and Long-Term Durability for Sodium-Ion Battery. <i>Advanced Science</i> , 2018 , 5, 1700768	13.6	55
466	Li^+ -Ion Dynamics in Li_3PS_4 Observed by NMR: Local Hopping and Long-Range Transport. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15954-15965	3.8	55

465	Toward On-and-Off Magnetism: Reversible Electrochemistry to Control Magnetic Phase Transitions in Spinel Ferrites. <i>Advanced Functional Materials</i> , 2016 , 26, 7507-7515	15.6	54
464	A novel high-throughput setup for in situ powder diffraction on coin cell batteries. <i>Journal of Applied Crystallography</i> , 2016 , 49, 340-345	3.8	53
463	The phase diagram of $K_{0.5}Na_{0.5}NbO_3Bi_{1/2}Na_{1/2}TiO_3$. <i>Journal of Applied Crystallography</i> , 2016 , 49, 574-584	3.8	53
462	Post mortem analysis of fatigue mechanisms in $LiNi_{0.8}Co_{0.15}Al_{0.05}O_2$ $LiNi_{0.5}Co_{0.2}Mn_{0.3}O_2$ $LiMn_2O_4$ /graphite lithium ion batteries. <i>Journal of Power Sources</i> , 2016 , 326, 397-409	8.9	52
461	Spatially resolved in operando neutron scattering studies on Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 245, 678-683	8.9	52
460	Lithium dendrite and solid electrolyte interphase investigation using OsO ₄ . <i>Journal of Power Sources</i> , 2014 , 266, 198-207	8.9	52
459	The crystal structure of $Tm_5Re_2O_{12}$. <i>Acta Crystallographica Section B: Structural Science</i> , 1999 , 55, 849-852		52
458	Co ₉ S ₈ @carbon yolk-shell nanocages as a high performance direct conversion anode material for sodium ion batteries. <i>Energy Storage Materials</i> , 2019 , 18, 51-58	19.4	52
457	Lithium/Oxygen Incorporation and Microstructural Evolution during Synthesis of Li-Rich Layered $Li[Li_{0.2}Ni_{0.2}Mn_{0.6}]O_2$ Oxides. <i>Advanced Energy Materials</i> , 2019 , 9, 1803094	21.8	52
456	β -Phase Diagram of $CuMoO_4$. <i>Journal of Solid State Chemistry</i> , 1997 , 132, 88-97	3.3	51
455	Crystal Structure and Magnetic Properties of Sm_3ReO_7 . <i>Journal of Solid State Chemistry</i> , 1996 , 125, 1-4	3.3	50
454	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. <i>Nature Communications</i> , 2020 , 11, 3490	17.4	50
453	$Li_3V(MoO_4)_3$: A New Material for Both Li Extraction and Insertion. <i>Chemistry of Materials</i> , 2010 , 22, 3165-3173	9.3	49
452	Crystal structure and magnetic properties of $CuMoO_4$ at low temperature (β -phase). <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 153-160	3.9	49
451	A long cycle-life and high safety Na ⁺ /Mg ²⁺ hybrid-ion battery built by using a TiS ₂ derived titanium sulfide cathode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 600-608	13	48
450	Evolution of microstructure and its relation to ionic conductivity in $Li_1 + xAl_xTi_2 - x(PO_4)_3$. <i>Solid State Ionics</i> , 2016 , 288, 235-239	3.3	46
449	Electrochemical Delithiation/Relithiation of $LiCoPO_4$: A Two-Step Reaction Mechanism Investigated by in Situ X-ray Diffraction, in Situ X-ray Absorption Spectroscopy, and in Situ ⁷ Li/ ³¹ P NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17279-17290	3.8	46
448	Shape-controlled synthesis of hierarchically layered lithium transition-metal oxide cathode materials by shear exfoliation in continuous stirred-tank reactors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25391-25400	13	46

- 447 Advances in situ powder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg. *Journal of Applied Crystallography*, **2013**, 46, 1117-1127 3.8 46
- 446 Synthesis, structural, magnetic and electrochemical properties of $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ prepared by a sol-gel method using table sugar as chelating agent. *Electrochimica Acta*, **2013**, 113, 313-321 6.7 45
- 445 Synthesis, Characterization, and Comparison of Electrochemical Properties of $\text{LiM}_{0.5}\text{Mn}_{1.5}\text{O}_4$ (M=Fe, Co, Ni) at Different Temperatures. *Journal of the Electrochemical Society*, **2010**, 157, A689 3.9 45
- 444 Electrochemical properties of Cr doped V_2O_5 between 3.8 V and 2.0 V. *Solid State Ionics*, **2009**, 180, 1198-1203 3.203 45
- 443 Magnon dispersion in. *Journal of Physics Condensed Matter*, **1999**, 11, 2649-2659 1.8 45
- 442 Preparation and crystal structure of a new Sr containing sialon phase $\text{Sr}_2\text{Al}_x\text{Si}_{12}\text{N}_{16}\text{O}_{2+x}$ ($x \geq 0$). *Journal of Materials Chemistry*, **1999**, 9, 1019-1022 44
- 441 Magnetism and spin-orbit coupling in Ir-based double perovskites $\text{La}_2\text{SrxCoIrO}_6$. *Physical Review B*, **2012**, 85, 3.3 43
- 440 Optical study of the piezochromic transition in CuMoO_4 by pressure spectroscopy. *Physical Review B*, **2000**, 61, 16497-16501 3.3 43
- 439 Binding Energy Referencing for XPS in Alkali Metal-Based Battery Materials Research (II): Application to Complex Composite Electrodes. *Batteries*, **2018**, 4, 36 5.7 42
- 438 Improving the rate capability of high voltage lithium-ion battery cathode material $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ by ruthenium doping. *Journal of Power Sources*, **2014**, 267, 533-541 8.9 42
- 437 Synthesis, structure, magnetic, electrical and electrochemical properties of Al, Cu and Mg doped MnO_2 . *Materials Chemistry and Physics*, **2011**, 130, 33-38 4.4 42
- 436 Electrochemical kinetics and cycling performance of nano $\text{Li}[\text{Li}_{0.23}\text{Co}_{0.3}\text{Mn}_{0.47}]\text{O}_2$ cathode material for lithium ion batteries. *Electrochemistry Communications*, **2009**, 11, 2008-2011 5.1 42
- 435 XPS investigations of electrolyte/electrode interactions for various Li-ion battery materials. *Analytical and Bioanalytical Chemistry*, **2011**, 400, 691-6 4.4 41
- 434 Polymorphs of Li_3PO_4 and Li_2MSiO_4 (M=Mn, Co). *Journal of Power Sources*, **2009**, 189, 638-642 8.9 40
- 433 Synchrotron Diffraction Study of Lithium Extraction from $\text{LiMn}_{0.6}\text{Fe}_{0.4}\text{PO}_4$. *Electrochemical and Solid-State Letters*, **2005**, 8, A379 40
- 432 Design and performance of an electrochemical in-situ cell for high resolution full-pattern X-ray powder diffraction. *Solid State Ionics*, **2005**, 176, 1647-1652 3.3 40
- 431 Low-temperature magnetic structure of YBaCuFeO_5 and the effect of partial substitution of yttrium by calcium. *Physical Review B*, **1998**, 58, 6291-6297 3.3 40
- 430 Homogeneity of lithium distribution in cylinder-type Li-ion batteries. *Scientific Reports*, **2015**, 5, 18380 4.9 40

429	Elucidating the energy storage mechanism of ZnMn ₂ O ₄ as promising anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19381-19392	13	39
428	Anatase TiO ₂ nanoparticles for lithium-ion batteries. <i>Ionics</i> , 2018 , 24, 2925-2934	2.7	38
427	Synchrotron Studies of NH Preintercalated VO ₂ HO Nanobelts as the Cathode Material for Aqueous Rechargeable Zinc Batteries. <i>ACS Nano</i> , 2020 , 14, 11809-11820	16.7	38
426	Unravelling the growth mechanism of hierarchically structured Ni _{1/3} Co _{1/3} Mn _{1/3} (OH) ₂ and their application as precursors for high-power cathode materials. <i>Electrochimica Acta</i> , 2017 , 232, 123-131	6.7	37
425	Thermal evolution of polar nanoregions identified by the relaxation time of electric modulus in the Bi _{1/2} Na _{1/2} TiO ₃ system. <i>Europhysics Letters</i> , 2017 , 118, 47001	1.6	37
424	Room-temperature ferromagnetism in pure ZnO nanoflowers. <i>Solid State Sciences</i> , 2010 , 12, 1364-1367	3.4	37
423	Characterizations on the structural and electrochemical properties of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ prepared by a wet-chemical process. <i>Solid State Ionics</i> , 2008 , 178, 1969-1974	3.3	37
422	In Operando Synchrotron Diffraction and in Operando X-ray Absorption Spectroscopy Investigations of Orthorhombic VO Nanowires as Cathode Materials for Mg-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2305-2315	16.4	37
421	NASICON-Type MgTi(PO) Negative Electrode Material Exhibits Different Electrochemical Energy Storage Mechanisms in Na-Ion and Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4709-4718	9.5	36
420	Mechanism of the Delithiation/Lithiation Process in LiFe _{0.4} Mn _{0.6} PO ₄ : in Situ and ex Situ Investigations on Long-Range and Local Structures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9016-9024	2.8	36
419	Magnetism in Re-based ferrimagnetic double perovskites. <i>New Journal of Physics</i> , 2009 , 11, 073047	2.9	36
418	Structure and dielectric dispersion in cubic-like 0.5K _{0.5} Na _{0.5} NbO ₃ -0.5Na _{1/2} Bi _{1/2} TiO ₃ ceramic. <i>Europhysics Letters</i> , 2016 , 114, 47011	1.6	36
417	Can Metallic Sodium Electrodes Affect the Electrochemistry of Sodium-Ion Batteries? Reactivity Issues and Perspectives. <i>ChemSusChem</i> , 2019 , 12, 3312-3319	8.3	35
416	Quasi in situ XPS investigations on intercalation mechanisms in Li-ion battery materials. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1871-7	4.4	34
415	Nanosized silver-coated and doped manganese dioxide for rechargeable lithium batteries. <i>Solid State Ionics</i> , 2011 , 182, 108-115	3.3	34
414	A Swagelok-type in situ cell for battery investigations using synchrotron radiation. <i>Journal of Applied Crystallography</i> , 2005 , 38, 851-853	3.8	34
413	Surface analytical approaches to reliably characterize lithium ion battery electrodes. <i>Surface and Interface Analysis</i> , 2018 , 50, 43-51	1.5	34
412	Kinetic characteristics up to 4.8 V of layered LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode materials for high voltage lithium-ion batteries. <i>Electrochimica Acta</i> , 2017 , 227, 152-161	6.7	33

411	Synthesis and electrochemical properties of rGO/polypyrrole/ferrites nanocomposites obtained via a hydrothermal route for hybrid aqueous supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 845, 72-83	4.1	33
410	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. <i>Applied Energy</i> , 2019 , 248, 149-161	10.7	33
409	Amorphous versus Crystalline Li ₃ PS ₄ : Local Structural Changes during Synthesis and Li Ion Mobility. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10280-10290	3.8	33
408	Reversible Li ⁺ Storage in a LiMnTiO ₄ Spinel and Its Structural Transition Mechanisms. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12608-12616	3.8	33
407	Magnetic structures of the high-pressure modifications of CoMoO ₄ and CuMoO ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 182, 152-160	2.8	33
406	Tetrathiafulvalene and 7,7,8,8-tetracyano-p-quinodimethane in zeolite Y. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 5764-5770	3.6	33
405	Crystal structures and magnetic properties of the high-pressure modifications of CoMoO ₄ and NiMoO ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 150, L1-L4	2.8	33
404	Power capability and cyclic aging of commercial, high power lithium ion battery cells with respect to different cell designs. <i>Journal of Power Sources</i> , 2019 , 425, 27-38	8.9	31
403	Effect of pristine nanostructure on first cycle electrochemical characteristics of lithium-rich lithiumnickelcobaltmanganese-oxide cathode ceramics for lithium ion batteries. <i>Journal of Power Sources</i> , 2016 , 306, 135-147	8.9	31
402	Preparation, Structure, and Magnetic Studies of a New Sr ₁₁ Re ₄ O ₂₄ Double Oxide. <i>Journal of Solid State Chemistry</i> , 2000 , 149, 49-55	3.3	31
401	Effect of fatigue/ageing on the lithium distribution in cylinder-type Li-ion batteries. <i>Journal of Power Sources</i> , 2017 , 348, 145-149	8.9	30
400	Nanoscale spinel LiFeTiO ₄ for intercalation pseudocapacitive Li(+) storage. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1482-8	3.6	30
399	CsEuBr ₃ : Crystal structure and its role in the photostimulation of CsBr:Eu ²⁺ . <i>Journal of Applied Physics</i> , 2006 , 100, 083506	2.5	30
398	Study of the Na ₂ O-MoO ₃ System. Na ₆ Mo ₁₁ O ₃₆ - A New Oxide with Anatase-related Structure, and the Crystal Structures of Na ₂ MoO ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 1336-1341	1.3	30
397	Tetragonal low-temperature phase of MgCr ₂ O ₄ . <i>Powder Diffraction</i> , 2002 , 17, 230-233	1.8	30
396	A powder diffraction study of the phase transition in LaAlO ₃ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2000 , 215, 536-541	1	30
395	EDTA as chelating agent for sol-gel synthesis of spinel LiMn ₂ O ₄ cathode material for lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 758-766	5.7	30
394	Relationships between the crystal/interfacial properties and electrochemical performance of LiNi _{0.33} Co _{0.33} Mn _{0.33} O ₂ in the voltage window of 2.5-4.6V. <i>Electrochimica Acta</i> , 2013 , 97, 357-363	6.7	29

393	Relationships between Structural Changes and Electrochemical Kinetics of Li-Excess $\text{Li}_{1.13}\text{Ni}_{0.3}\text{Mn}_{0.57}\text{O}_2$ during the First Charge. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3279-3286	3.8	29
392	Redetermination of iron dialuminide, FeAl_2 . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010 , 66, i87-8		29
391	Effects of high-pressure hydrogen charging on the structure of austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 384, 255-261	5.3	29
390	Changes of the balancing between anode and cathode due to fatigue in commercial lithium-ion cells. <i>Journal of Power Sources</i> , 2016 , 317, 25-34	8.9	29
389	Structural and electrochemical properties of FeMnO_2 doped with cobalt. <i>Journal of Materials Science</i> , 2012 , 47, 2479-2485	4.3	28
388	3d-Transition metal doped spinels as high-voltage cathode materials for rechargeable lithium-ion batteries. <i>Progress in Solid State Chemistry</i> , 2014 , 42, 128-148	8	28
387	Norstatines from Aldehydes by Sequential Organocatalytic α -Amination and Passerini Reaction. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 4585-4595	3.2	28
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