Helmut Ehrenberg

List of Publications by Year
in descending order

570	17,452	15495 65	29127 104
papers	citations	h-index	g-index

623	623	623	15822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Giant strain in lead-free piezoceramics Bi0.5Na0.5TiO3â€“BaTiO3â€“K0.5Na0.5NbO3 system. Applied Physics Letters, 2007, 91, .	1.5	731
2	Structure and dynamics of the fast lithium ion conductor â€œLi7La3Zr2O12â€. Physical Chemistry Chemical Physics, 2011, 13, 19378.	1.3	559
3	Fundamental degradation mechanisms of layered oxide Li-ion battery cathode materials: Methodology, insights and novel approaches. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 192, 3-25.	1.7	357
4	Chemical, Structural, and Electronic Aspects of Formation and Degradation Behavior on Different Length Scales of Niâ€Rich NCM and Liâ€Rich HEâ€NCM Cathode Materials in Liâ€Ion Batteries. Advanced Materials, 2019, 31, e1900985.	11.1	319
5	Phase Transitions Occurring upon Lithium Insertionâ^'Extraction of LiCoPO4. Chemistry of Materials, 2007, 19, 908-915.	3.2	235
6	Understanding structural changes in NMC Li-ion cells by in situ neutron diffraction. Journal of Power Sources, 2014, 255, 197-203.	4.0	210
7	Lead-free piezoceramics with giant strain in the system Bi0.5Na0.5TiO3â€“BaTiO3â€“K0.5Na0.5NbO3. II. Temperature dependent properties. Journal of Applied Physics, 2008, 103, .	1.1	192
8	Lithium Diffusion Pathway in Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ (LATP) Superionic Conductor. Inorganic Chemistry, 2016, 55, 2941-2945.	1.9	188
9	Sodium vanadium titanium phosphate electrode for symmetric sodium-ion batteries with high power and long lifespan. Nature Communications, 2017, 8, 15888.	5.8	188
10	Calcium Carbonate Modifications in the Mineralized Shell of the Freshwater SnailBiomphalaria glabrata. Chemistry - A European Journal, 2000, 6, 3679-3685.	1.7	184
11	Field-induced phase transition in Bi_{1/2}Na_{1/2}TiO₃-based lead-free piezoelectric ceramics. Journal of Applied Crystallography, 2010, 43, 1314-1321.	1.9	180
12	On the Energetic Stability and Electrochemistry of Li₂MnSiO₄ Polymorphs. Chemistry of Materials, 2008, 20, 5574-5584.	3.2	178
13	The synchrotron powder diffractometer at beamline B2 at HASYLAB/DESY: status and capabilities. Journal of Synchrotron Radiation, 2004, 11, 328-334.	1.0	167
14	Low-temperature performance of Li-ion batteries: The behavior of lithiated graphite. Journal of Power Sources, 2015, 282, 235-240.	4.0	166
15	Structural insights into the formation and voltage degradation of lithium- and manganese-rich layered oxides. Nature Communications, 2019, 10, 5365.	5.8	166
16	Changes in the crystal and electronic structure of LiCoO2 and LiNiO2 upon Li intercalation and de-intercalation. Physical Chemistry Chemical Physics, 2009, 11, 3278.	1.3	164
17	From order to disorder: The structure of lithium-conducting garnets Li7â^'xLa3TaxZr2â^'xO12 (x = 0â€“2). Solid State Ionics, 2012, 206, 33-38.	1.3	159
18	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. Journal of Power Sources, 2020, 448, 227575.	4.0	155

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19	Electrochemical intercalation of lithium in ternary metal molybdates MMoO4 (M: Cu, Zn, Ni and Fe). Journal of Power Sources, 2004, 127, 76-84.	4.0	146
20	Iron-oxygen vacancy defect centers inPbTiO3: Newman superposition model analysis and density functional calculations. Physical Review B, 2005, 71, .	1.1	146
21	Synthesis and characterization of Carbon Nano Fiber/LiFePO4 composites for Li-ion batteries. Journal of Power Sources, 2008, 180, 553-560.	4.0	146
22	Position-sensitive detector system OBI for High Resolution X-Ray Powder Diffraction using on-site readable image plates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 565-570.	0.7	142
23	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation. Nature Communications, 2022, 13, 2261.	5.8	133
24	Developments in nanostructured LiMPO4 (M = Fe, Co, Ni, Mn) composites based on three dimensional carbon architecture. Chemical Society Reviews, 2012, 41, 5068.	18.7	132
25	â€œIn-operandoâ€•neutron scattering studies on Li-ion batteries. Journal of Power Sources, 2012, 203, 126-129.	4.0	126
26	Electrochemical and structural study of LiCoPO4-based electrodes. Journal of Solid State Electrochemistry, 2004, 8, 558.	1.2	123
27	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. Nature Communications, 2020, 11, 3490.	5.8	121
28	Metalâ€“Support Interactions of Platinum Nanoparticles Decorated N-Doped Carbon Nanofibers for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 82-90.	4.0	120
29	Average vs. local structure and composition-property phase diagram of K0.5Na0.5NbO3-BiÂ½NaÂ½TiO3 system. Journal of the European Ceramic Society, 2017, 37, 1387-1399.	2.8	118
30	Lithium Intercalation into Graphitic Carbons Revisited: Experimental Evidence for Twisted Bilayer Behavior. Journal of the Electrochemical Society, 2013, 160, A3198-A3205.	1.3	114
31	Effect of oxygen plasma treatment on the electrochemical performance of the rayon and polyacrylonitrile based carbon felt for the vanadium redox flow battery application. Journal of Power Sources, 2016, 332, 240-248.	4.0	111
32	The stability of the SEI layer, surface composition and the oxidation state of transition metals at the electrolyteâ€“cathode interface impacted by the electrochemical cycling: X-ray photoelectron spectroscopy investigation. Physical Chemistry Chemical Physics, 2012, 14, 12321.	1.3	109
33	Large strain response based on relaxor-antiferroelectric coherence in Bi0.5Na0.5TiO3â€“SrTiO3â€“(K0.5Na0.5)NbO3 solid solutions. Journal of Applied Physics, 2014, 116, .	1.1	104
34	Fatigue of LiNi0.8Co0.15Al0.05O2 in commercial Li ion batteries. Journal of Power Sources, 2015, 273, 70-82.	4.0	102
35	Na₃V₂(PO₄)₃/C composite as the intercalation-type anode material for sodium-ion batteries with superior rate capability and long-cycle life. Journal of Materials Chemistry A, 2015, 3, 8636-8642.	5.2	100
36	Crystal Structure and Microstructure of Some La2/3-xLi3xTiO3Oxides:Â An Example of the Complementary Use of Electron Diffraction and Microscopy and Synchrotron X-ray Diffraction To Study Complex Materials. Journal of the American Chemical Society, 2004, 126, 3587-3596.	6.6	98

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37	Co9S8@carbon yolk-shell nanocages as a high performance direct conversion anode material for sodium ion batteries. Energy Storage Materials, 2019, 18, 51-58.	9.5	89
38	Short-range order of Zr62â˜xTixAl10Cu20Ni8 bulk metallic glasses. Acta Materialia, 2002, 50, 305-314.	3.8	88
39	Anatase TiO2 nanoparticles for lithium-ion batteries. Ionics, 2018, 24, 2925-2934.	1.2	88
40	Study of the effect of different synthesis routes on Li extractionâ€“insertion from LiCoPO4. Journal of Power Sources, 2005, 145, 74-81.	4.0	87
41	In Operando Synchrotron Studies of NH₄⁺ Preintercalated V₂O₅Â·nH₂O Nanobelts as the Cathode Material for Aqueous Rechargeable Zinc Batteries. ACS Nano, 2020, 14, 11809-11820.	7.3	87
42	Precursor-based synthesis and electrochemical performance of LiMnPO4. Journal of Alloys and Compounds, 2008, 464, 259-264.	2.8	86
43	Thermal Stability of LiCoPO[sub 4] Cathodes. Electrochemical and Solid-State Letters, 2008, 11, A89.	2.2	86
44	Crystal and magnetic structures of electrochemically delithiated Li1â˜xCoPO4 phases. Solid State Sciences, 2009, 11, 18-23.	1.5	86
45	Intercalationâ€Driven Reversible Control of Magnetism in Bulk Ferromagnets. Advanced Materials, 2014, 26, 4639-4644.	11.1	85
46	Structural, magnetic, dielectric properties of multiferroic GaFeO3 prepared by solid state reaction and solâ€“gel methods. Journal of Alloys and Compounds, 2010, 492, L20-L27.	2.8	83
47	Carbon materials for the positive electrode in all-vanadium redox flow batteries. Carbon, 2014, 78, 220-230.	5.4	83
48	Moving to Aqueous Binder: A Valid Approach to Achieving Highâ€Rate Capability and Longâ€Term Durability for Sodiumâ€Ion Battery. Advanced Science, 2018, 5, 1700768.	5.6	82
49	Unraveling the Degradation Process of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Electrodes in Commercial Lithium Ion Batteries by Electronic Structure Investigations. ACS Applied Materials & Interfaces, 2015, 7, 19589-19600.	4.0	80
50	Pseudocapacitance of Mesoporous Spinel-Type MCo₂O₄ (M = Co, Zn, and Ni) Rods Fabricated by a Facile Solvothermal Route. ACS Omega, 2017, 2, 6003-6013.	1.6	79
51	Lithium/Oxygen Incorporation and Microstructural Evolution during Synthesis of Liâ€Rich Layered Li[Li_{0.2}Ni_{0.2}Mn_{0.6}]O₂ Oxides. Advanced Energy Materials, 2019, 9, 1803094.	10.2	78
52	Surface properties and graphitization of polyacrylonitrile based fiber electrodes affecting the negative half-cell reaction in vanadium redox flow batteries. Journal of Power Sources, 2016, 321, 210-218.	4.0	76
53	Li⁺-Ion Dynamics in Î²-Li₃PS₄ Observed by NMR: Local Hopping and Long-Range Transport. Journal of Physical Chemistry C, 2018, 122, 15954-15965.	1.5	76
54	Binding Energy Referencing for XPS in Alkali Metal-Based Battery Materials Research (II): Application to Complex Composite Electrodes. Batteries, 2018, 4, 36.	2.1	75

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55	Temperature and composition dependence of crystal structures and magnetic and electronic properties of the double perovskites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review B, 2010, 82, .	1.1	74
56	The Tautomeric Forms of Cyameluric Acid Derivatives. Chemistry - A European Journal, 2007, 13, 1158-1173.	1.7	70
57	Lithium dendrite and solid electrolyte interphase investigation using OsO4. Journal of Power Sources, 2014, 266, 198-207.	4.0	69
58	Toward Onâ€andâ€Off Magnetism: Reversible Electrochemistry to Control Magnetic Phase Transitions in Spinel Ferrites. Advanced Functional Materials, 2016, 26, 7507-7515.	7.8	69
59	In Operando Synchrotron Diffraction and in Operando X-ray Absorption Spectroscopy Investigations of Orthorhombic V₂O₅ Nanowires as Cathode Materials for Mg-Ion Batteries. Journal of the American Chemical Society, 2019, 141, 2305-2315.	6.6	69
60	A novel high-throughput setup forin situpowder diffraction on coin cell batteries. Journal of Applied Crystallography, 2016, 49, 340-345.	1.9	68
61	Evolution of microstructure and its relation to ionic conductivity in Li1+xAlxTi2â^'x(PO4)3. Solid State Ionics, 2016, 288, 235-239.	1.3	68
62	Magnetic phase diagrams of. Journal of Physics Condensed Matter, 1997, 9, 3189-3203.	0.7	67
63	Shape-controlled synthesis of hierarchically layered lithium transition-metal oxide cathode materials by shear exfoliation in continuous stirred-tank reactors. Journal of Materials Chemistry A, 2017, 5, 25391-25400.	5.2	67
64	The phase diagram of K_{0.5}Na_{0.5}NbO₃â€“Bi_{1/2}Na_{1/2}TiO₃ Journal of Applied Crystallography, 2016, 49, 574-584.	1.9	66
65	Fatigue Process in Li-Ion Cells: An In Situ Combined Neutron Diffraction and Electrochemical Study. Journal of the Electrochemical Society, 2012, 159, A2082-A2088.	1.3	65
66	Optical and luminescence studies of ZnMoO4 using vacuum ultraviolet synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 513-516.	0.7	63
67	Improvement of the electrochemical performance of nanosized Î±-MnO2 used as cathode material for Li-batteries by Sn-doping. Journal of Alloys and Compounds, 2011, 509, 9669-9674.	2.8	63
68	Homogeneity of lithium distribution in cylinder-type Li-ion batteries. Scientific Reports, 2016, 5, 18380.	1.6	62
69	Post mortem analysis of fatigue mechanisms in LiNi0.8Co0.15Al0.05O2 â€“ LiNi0.5Co0.2Mn0.3O2 â€“ LiMn2O4/graphite lithium ion batteries. Journal of Power Sources, 2016, 326, 397-409.	4.0	62
70	Can Metallic Sodium Electrodes Affect the Electrochemistry of Sodiumâ€ion Batteries? Reactivity Issues and Perspectives. ChemSusChem, 2019, 12, 3312-3319.	3.6	62
71	Amorphous versus Crystalline Li₃PS₄: Local Structural Changes during Synthesis and Li Ion Mobility. Journal of Physical Chemistry C, 2019, 123, 10280-10290.	1.5	62
72	Redetermination of iron dialuminide, FeAl₂. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, i87-i88.	0.4	61

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73	Spatially resolved in operando neutron scattering studies on Li-ion batteries. Journal of Power Sources, 2014, 245, 678-683.	4.0	60
74	Unravelling the growth mechanism of hierarchically structured Ni1/3Co1/3Mn1/3(OH)2 and their application as precursors for high-power cathode materials. Electrochimica Acta, 2017, 232, 123-131.	2.6	60
75	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. Applied Energy, 2019, 248, 149-161.	5.1	60
76	Chemical and Structural Evolution during the Synthesis of Layered Li(Ni,Co,Mn)O₂ Oxides. Chemistry of Materials, 2020, 32, 4984-4997.	3.2	58
77	Advances inin situpowder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg. Journal of Applied Crystallography, 2013, 46, 1117-1127.	1.9	57
78	A long cycle-life and high safety Na⁺/Mg²⁺ hybrid-ion battery built by using a TiS₂ derived titanium sulfide cathode. Journal of Materials Chemistry A, 2017, 5, 600-608.	5.2	57
79	Elucidating the energy storage mechanism of ZnMn₂O₄ as promising anode for Li-ion batteries. Journal of Materials Chemistry A, 2018, 6, 19381-19392.	5.2	57
80	Crystal Structure and Magnetic Properties of Sm3ReO7. Journal of Solid State Chemistry, 1996, 125, 1-4.	1.4	56
81	Magnetism and spin-orbit coupling in Ir-based double perovskites La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>CoIrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	56
82	Improving the rate capability of high voltage lithium-ion battery cathode material LiNi0.5Mn1.5O4 by ruthenium doping. Journal of Power Sources, 2014, 267, 533-541.	4.0	55
83	pâ€“TPhase Diagram of CuMoO4. Journal of Solid State Chemistry, 1997, 132, 88-97.	1.4	54
84	Thermal evolution of polar nanoregions identified by the relaxation time of electric modulus in the Bi _{1/2} Na _{1/2} TiO ₃ system. Europhysics Letters, 2017, 118, 47001.	0.7	54
85	Difference in Electrochemical Mechanism of SnO₂ Conversion in Lithium-Ion and Sodium-Ion Batteries: Combined in Operando and Ex Situ XAS Investigations. ACS Omega, 2019, 4, 9731-9738.	1.6	54
86	Synthesis and electrochemical properties of rGO/polypyrrole/ferrites nanocomposites obtained via a hydrothermal route for hybrid aqueous supercapacitors. Journal of Electroanalytical Chemistry, 2019, 845, 72-83.	1.9	54
87	Synthesis, structure, magnetic, electrical and electrochemical properties of Al, Cu and Mg doped MnO2. Materials Chemistry and Physics, 2011, 130, 33-38.	2.0	53
88	Crystal structure and magnetic properties of CuMoO4 at low temperature (Î³-phase). Journal of Physics and Chemistry of Solids, 1997, 58, 153-160.	1.9	52
89	The crystal structure of Tm5Re2O12. Acta Crystallographica Section B: Structural Science, 1999, 55, 849-852.	1.8	52
90	Electrochemical Delithiation/Relithiation of LiCoPO₄: A Two-Step Reaction Mechanism Investigated by in Situ X-ray Diffraction, in Situ X-ray Absorption Spectroscopy, and ex Situ ⁷Li/³¹P NMR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 17279-17290.	1.5	52

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91	Electrochemical properties of Cr doped V2O5 between 3.8ÂV and 2.0ÂV. Solid State Ionics, 2009, 180, 1198-1203.	1.3	51
92	Li₃V(MoO₄)₃: A New Material for Both Li Extraction and Insertion. Chemistry of Materials, 2010, 22, 3165-3173.	3.2	51
93	Synthesis, structural, magnetic and electrochemical properties of LiNi1/3Mn1/3Co1/3O2 prepared by a solâ€“gel method using table sugar as chelating agent. Electrochimica Acta, 2013, 113, 313-321.	2.6	51
94	Lithium-ion (de)intercalation mechanism in core-shell layered Li(Ni,Co,Mn)O2 cathode materials. Nano Energy, 2020, 78, 105231.	8.2	50
95	Optical study of the piezochromic transition inCuMoO4by pressure spectroscopy. Physical Review B, 2000, 61, 16497-16501.	1.1	49
96	Synchrotron Diffraction Study of Lithium Extraction from LiMn[sub 0.6]Fe[sub 0.4]PO[sub 4]. Electrochemical and Solid-State Letters, 2005, 8, A379.	2.2	49
97	Probing thermally-induced structural evolution during the synthesis of layered Li-, Na-, or K-containing 3d transition-metal oxides. EScience, 2022, 2, 183-191.	25.0	49
98	Magnetism in Re-based ferrimagnetic double perovskites. New Journal of Physics, 2009, 11, 073047.	1.2	48
99	XPS investigations of electrolyte/electrode interactions for various Li-ion battery materials. Analytical and Bioanalytical Chemistry, 2011, 400, 691-696.	1.9	48
100	Investigation of capacity fade for 18650-type lithium-ion batteries cycled in different state of charge (SoC) ranges. Journal of Power Sources, 2021, 489, 229422.	4.0	48
101	Magnon dispersion in. Journal of Physics Condensed Matter, 1999, 11, 2649-2659.	0.7	47
102	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. Europhysics Letters, 2016, 114, 47011.	0.7	47
103	NASICON-Type Mg_{0.5}Ti₂(PO₄)₃ Negative Electrode Material Exhibits Different Electrochemical Energy Storage Mechanisms in Na-Ion and Li-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4709-4718.	4.0	47
104	Preparation and crystal structure of a new Sr containing sialon phase Sr2AlxSi12â^'xN16â^'xO2+x (xâ‰ˆ2). Journal of Materials Chemistry, 1999, 9, 1019-1022.	6.7	46
105	Electrochemical kinetics and cycling performance of nano Li[Li0.23Co0.3Mn0.47]O2 cathode material for lithium ion batteries. Electrochemistry Communications, 2009, 11, 2008-2011.	2.3	46
106	Synthesis, Characterization, and Comparison of Electrochemical Properties of LiM[sub 0.5]Mn[sub 1.5]O[sub 4] (M=Fe, Co, Ni) at Different Temperatures. Journal of the Electrochemical Society, 2010, 157, A689.	1.3	46
107	Power capability and cyclic aging of commercial, high power lithium ion battery cells with respect to different cell designs. Journal of Power Sources, 2019, 425, 27-38.	4.0	46
108	Kinetic Control of Longâ€Range Cationic Ordering in the Synthesis of Layered Niâ€Rich Oxides. Advanced Functional Materials, 2021, 31, 2009949.	7.8	46

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109	Low-temperature magnetic structure ofYBaCuFeO5and the effect of partial substitution of yttrium by calcium. Physical Review B, 1998, 58, 6291-6297.	1.1	44
110	Mechanism of the Delithiation/Lithiation Process in LiFe_{0.4}Mn_{0.6}PO₄: in Situ and ex Situ Investigations on Long-Range and Local Structures. Journal of Physical Chemistry C, 2015, 119, 9016-9024.	1.5	44
111	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.	1.3	43
112	Changes of the balancing between anode and cathode due to fatigue in commercial lithium-ion cells. Journal of Power Sources, 2016, 317, 25-34.	4.0	43
113	Characterizations on the structural and electrochemical properties of LiNi1/3Mn1/3Co1/3O2 prepared by a wet-chemical process. Solid State Ionics, 2008, 178, 1969-1974.	1.3	42
114	Surface analytical approaches to reliably characterize lithium ion battery electrodes. Surface and Interface Analysis, 2018, 50, 43-51.	0.8	42
115	Polymorphs of Li3PO4 and Li2MSiO4 (M=Mn, Co). Journal of Power Sources, 2009, 189, 638-642.	4.0	41
116	Understanding the Lifetime of Battery Cells Based on Solid-State Li₆PS₅Cl Electrolyte Paired with Lithium Metal Electrode. ACS Applied Materials & Interfaces, 2020, 12, 20012-20025.	4.0	41
117	The influence of cycling temperature and cycling rate on the phase specific degradation of a positive electrode in lithium ion batteries: A post mortem analysis. Journal of Power Sources, 2016, 327, 714-725.	4.0	40
118	Understanding the mechanism of byproduct formation with in operando synchrotron techniques and its effects on the electrochemical performance of VO₂(B) nanoflakes in aqueous rechargeable zinc batteries. Journal of Materials Chemistry A, 2020, 8, 9567-9578.	5.2	40
119	Magnetic structures of the high-pressure modifications of CoMoO4 and CuMoO4. Journal of Magnetism and Magnetic Materials, 1998, 182, 152-160.	1.0	39
120	A powder diffraction study of the phase transition in LaAlO3. Zeitschrift Fur Kristallographie - Crystalline Materials, 2000, 215, 536-541.	0.4	39
121	Influence of temperature and upper cut-off voltage on the formation of lithium-ion cells. Journal of Power Sources, 2014, 264, 100-107.	4.0	39
122	Green synthesis of nanosized manganese dioxide as positive electrode for lithium-ion batteries using lemon juice and citrus peel. Electrochimica Acta, 2018, 262, 74-81.	2.6	39
123	Highâ€Voltage Aqueous Mgâ€Ion Batteries Enabled by Solvation Structure Reorganization. Advanced Functional Materials, 2022, 32, 2110674.	7.8	38
124	CsEuBr3: Crystal structure and its role in the photostimulation of CsBr:Eu2+. Journal of Applied Physics, 2006, 100, 083506.	1.1	37
125	Room-temperature ferromagnetism in pure ZnO nanoflowers. Solid State Sciences, 2010, 12, 1364-1367.	1.5	37
126	Reversible Li⁺ Storage in a LiMnTiO₄ Spinel and Its Structural Transition Mechanisms. Journal of Physical Chemistry C, 2014, 118, 12608-12616.	1.5	37

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127	Preparation, Structure, and Magnetic Studies of a New Sr11Re4O24 Double Oxide. Journal of Solid State Chemistry, 2000, 149, 49-55.	1.4	36
128	Effects of high-pressure hydrogen charging on the structure of austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 384, 255-261.	2.6	36
129	Quasi in situ XPS investigations on intercalation mechanisms in Li-ion battery materials. Analytical and Bioanalytical Chemistry, 2009, 393, 1871-1877.	1.9	36
130	Nanosized silver-coated and doped manganese dioxide for rechargeable lithium batteries. Solid State Ionics, 2011, 182, 108-115.	1.3	36
131	Effect of pristine nanostructure on first cycle electrochemical characteristics of lithium-rich lithiumâ€“nickelâ€“cobaltâ€“manganese-oxide cathode ceramics for lithium ion batteries. Journal of Power Sources, 2016, 306, 135-147.	4.0	36
132	Fast Na⁺ Ion Conduction in NASICON-Type Na_{3.4}Sc₂(SiO₄)_{0.4}(PO₄)_{2.6} Observed by ²³Na NMR Relaxometry. Journal of Physical Chemistry C, 2017, 121, 1449-1454.	1.5	36
133	Kinetic characteristics up to 4.8 V of layered LiNi1/3Co1/3Mn1/3O2 cathode materials for high voltage lithium-ion batteries. Electrochimica Acta, 2017, 227, 152-161.	2.6	36
134	EDTA as chelating agent for sol-gel synthesis of spinel LiMn2O4 cathode material for lithium batteries. Journal of Alloys and Compounds, 2018, 737, 758-766.	2.8	36
135	Crystal structures and magnetic properties of the high-pressure modifications of CoMoO4 and NiMoO4. Journal of Magnetism and Magnetic Materials, 1995, 150, L1-L4.	1.0	35
136	Tetrathiafulvalene and 7,7,8,8,-tetracyano-p-quinodimethane in zeolite Y. Physical Chemistry Chemical Physics, 2000, 2, 5764-5770.	1.3	35
137	A Swagelok-typein situcell for battery investigations using synchrotron radiation. Journal of Applied Crystallography, 2005, 38, 851-853.	1.9	35
138	Crystal structures and magnetic properties of iron (III)-based phosphates: Na4NiFe(PO4)3 and Na2Ni2Fe(PO4)3. Journal of Alloys and Compounds, 2011, 509, 1163-1171.	2.8	35
139	3d-Transition metal doped spinels as high-voltage cathode materials for rechargeable lithium-ion batteries. Progress in Solid State Chemistry, 2014, 42, 128-148.	3.9	35
140	Nanoscale spinel LiFeTiO₄for intercalation pseudocapacitive Li⁺storage. Physical Chemistry Chemical Physics, 2015, 17, 1482-1488.	1.3	35
141	Electrochemical and structural investigations of different polymorphs of TiO2 in magnesium and hybrid lithium/magnesium batteries. Electrochimica Acta, 2018, 277, 20-29.	2.6	35
142	Choosing the right carbon additive is of vital importance for high-performance Sb-based Na-ion batteries. Journal of Materials Chemistry A, 2020, 8, 6092-6104.	5.2	35
143	Tetragonal low-temperature phase of MgCr2O4. Powder Diffraction, 2002, 17, 230-233.	0.4	34
144	Study of the Na2Oâ€”MoO3 System. Na6Mo11O36â€” a New Oxide with Anatase-related Structure, and the Crystal Structures of Na2MoO4. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 1336-1341.	0.6	34

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145	Crystal and magnetic structure of Î±-NiMoO4. Journal of Magnetism and Magnetic Materials, 1995, 150, 371-376.	1.0	33
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