M Stanley Whittingham

List of Publications by Year
in descending order

212 papers	25,731 citations	13827 67 h-index	6454 157 g-index
214 all docs	214 docs citations	214 times ranked	19421 citing authors

#	Article	IF	Citations
1	Oxygen Loss in Layered Oxide Cathodes for Li-Ion Batteries: Mechanisms, Effects, and Mitigation. Chemical Reviews, 2022, 122, 5641-5681.	23.0	108
2	Pushing the limit of 3d transition metal-based layered oxides that use both cation and anion redox for energy storage. Nature Reviews Materials, 2022, 7, 522-540.	23.3	92
3	Lithium titanium disulfide cathodes. Nature Energy, 2021, 6, 214-214.	19.8	14
4	Solid-state ionics: The key to the discovery and domination of lithium batteries: some learnings from Î²-alumina and titanium disulfide. MRS Bulletin, 2021, 46, 168-173.	1.7	3
5	Whither Mn Oxidation in Mn-Rich Alkali-Excess Cathodes?. ACS Energy Letters, 2021, 6, 1055-1064.	8.8	20
6	Structure, Composition, and Electrochemistry of Chromium-Substituted Îµ-LiVOPO4. ACS Applied Energy Materials, 2021, 4, 1421-1430.	2.5	7
7	Can Greener Cyrene Replace NMP for Electrode Preparation of NMC 811 Cathodes?. Journal of the Electrochemical Society, 2021, 168, 040536.	1.3	16
8	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	5.8	59
9	Operando XAS to Illustrate the Importance of Electronic Conductivity in Vanadyl Phosphate Systems. Journal of the Electrochemical Society, 2021, 168, 050502.	1.3	1
10	Al Substitution for Mn during Co-Precipitation Boosts the Electrochemical Performance of LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂. Journal of the Electrochemical Society, 2021, 168, 050532.	1.3	8
11	An Electrochemical Study on NH4VOPO4: Can Ion-Exchange Improve Side Reactions?. Journal of the Electrochemical Society, 2021, 168, 050513.	1.3	3
12	Balancing interfacial reactions to achieve long cycle life in high-energy lithium metal batteries. Nature Energy, 2021, 6, 723-732.	19.8	285
13	Enhanced High-Rate Performance of Nanosized Single Crystal Îµ-VOPO₄ with Niobium Substitution for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 060519.	1.3	7
14	Conditioning the Surface and Bulk of High-Nickel Cathodes with a Nb Coating: An <i>In Situ</i> X-ray Study. Journal of Physical Chemistry Letters, 2021, 12, 7908-7913.	2.1	16
15	Fundamental Linkage Between Structure, Electrochemical Properties, and Chemical Compositions of LiNi_{1â€"<i>x</i>â€"<i>y</i>}Mn<i>_x</i>Co<i>_y</i>O₂ Cathode Materials. ACS Applied Materials & Interfaces, 2021, 13, 2622-2629.	4.0	19
16	Microwave-assisted solvothermal synthesis of LiV_yM_{1âˆ'y}OPO₄ (M) Tj ETQq0 0 0 rgBT /Overlock A, 2021, 9, 6933-6944.	5.2	7
17	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. Chemistry of Materials, 2020, 32, 1002-1010.	3.2	44
18	Challenges and Development of Tin-Based Anode with High Volumetric Capacity for Li-Ion Batteries. Electrochemical Energy Reviews, 2020, 3, 643-655.	13.1	123

#	Article	IF	Citations
19	Beyond the Nobel recognition â€“ To a cleaner sustainable future. Journal of Power Sources, 2020, 473, 228574.	4.0	8
20	Special Editorial Perspective: Beyond Li-Ion Battery Chemistry. Chemical Reviews, 2020, 120, 6328-6330.	23.0	47
21	Lithium Batteries: 50 Years of Advances to Address the Next 20 Years of Climate Issues. Nano Letters, 2020, 20, 8435-8437.	4.5	89
22	Valence-to-core X-ray emission spectroscopy of vanadium oxide and lithiated vanadyl phosphate materials. Journal of Materials Chemistry A, 2020, 8, 16332-16344.	5.2	10
23	Vanadyl Phosphates A<i>_x</i>VOPO₄ (A = Li, Na, K) as Multielectron Cathodes for Alkaliâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2002638.	10.2	26
24	Energy and environmental aspects in recycling lithium-ion batteries: Concept of Battery Identity Global Passport. Materials Today, 2020, 41, 304-315.	8.3	181
25	Understanding and applying coulombic efficiency in lithium metal batteries. Nature Energy, 2020, 5, 561-568.	19.8	526
26	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathodeâ€“Electrolyte Interface when Addressing Oxygen Redox. Journal of Physical Chemistry Letters, 2020, 11, 2106-2112.	2.1	36
27	Evolution of lithium ordering with (de)-lithiation in Î^{2}-LiVOPO₄: insights through solid-state NMR and first principles DFT calculations. Journal of Materials Chemistry A, 2020, 8, 5546-5557.	5.2	13
28	Vaper Phase Polymerized PEDOT/Cellulose Paper Composite for Flexible Solid-State Supercapacitor. ACS Applied Energy Materials, 2020, 3, 1559-1568.	2.5	64
29	Quantifying the Capacity Contributions during Activation of Li₂MnO₃. ACS Energy Letters, 2020, 5, 634-641.	8.8	105
30	Using In-Situ Methods to Characterize Phase Changes in Charged Lithium Nickel Cobalt Aluminum Oxide Cathode Materials. Microscopy and Microanalysis, 2019, 25, 2030-2031.	0.2	2
31	Layered Oxide Cathodes for Li-Ion Batteries: Oxygen Loss and Vacancy Evolution. Chemistry of Materials, 2019, 31, 7790-7798.	3.2	76
32	What Limits the Capacity of Layered Oxide Cathodes in Lithium Batteries?. ACS Energy Letters, 2019, 4, 1902-1906.	8.8	172
33	A high-performance solid-state synthesized LiVOPO4 for lithium-ion batteries. Electrochemistry Communications, 2019, 105, 106491.	2.3	26
34	Liâ€“Nbâ€“O Coating/Substitution Enhances the Electrochemical Performance of the LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ (NMC 811) Cathode. ACS Applied Materials & Interfaces, 2019, 11, 34889-34894.	4.0	124
35	A high-performance oxygen evolution catalyst in neutral-pH for sunlight-driven CO2 reduction. Nature Communications, 2019, 10, 4081.	5.8	57
36	Intrinsic Challenges to the Electrochemical Reversibility of the High Energy Density Copper(II) Fluoride Cathode Material. ACS Applied Energy Materials, 2019, 2, 5243-5253.	2.5	29

#	Article	IF	Citations
37	Nonstoichiometry and Defects in Hydrothermally Synthesized Îµ-LiVOPO₄. ACS Applied Energy Materials, 2019, 2, 4792-4800.	2.5	12
38	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. Nature Energy, 2019, 4, 551-559.	19.8	492
39	Nanocrystal Conversion-Assisted Design of Snâ€“Fe Alloy with a Coreâ€“Shell Structure as High-Performance Anodes for Lithium-Ion Batteries. ACS Omega, 2019, 4, 4888-4895.	1.6	25
40	Rational synthesis and electrochemical performance of LiVOPO₄ polymorphs. Journal of Materials Chemistry A, 2019, 7, 8423-8432.	5.2	20
41	Pathways for practical high-energy long-cycling lithium metal batteries. Nature Energy, 2019, 4, 180-186.	19.8	2,101
42	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. Joule, 2019, 3, 1094-1105.	11.7	358
43	Good Practices for Rechargeable Lithium Metal Batteries. Journal of the Electrochemical Society, 2019, 166, A4141-A4149.	1.3	42
44	Reaction Mechanism of the Sn₂Fe Anode in Lithium-Ion Batteries. ACS Omega, 2019, 4, 22345-22355.	1.6	11
45	Solid State Ionics - the key to the discovery, introduction and domination of lithium batteries for portable energy storage. Solid State Ionics, 2018, 317, 60-68.	1.3	4
46	Identifying the chemical and structural irreversibility in LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ â€“ a model compound for classical layered intercalation. Journal of Materials Chemistry A, 2018, 6, 4189-4198.	5.2	48
47	Can Multielectron Intercalation Reactions Be the Basis of Next Generation Batteries?. Accounts of Chemical Research, 2018, 51, 258-264.	7.6	91
48	Structural Degradations in the Bulk of Cathode Particles for Li-ion Batteries. Microscopy and Microanalysis, 2018, 24, 1504-1505.	0.2	0
49	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. Review of Scientific Instruments, 2018, 89, 093002.	0.6	18
50	Role of disorder in limiting the true multi-electron redox in Îµ-LiVOPO₄. Journal of Materials Chemistry A, 2018, 6, 20669-20677.	5.2	21
51	Structural Changes in a High-Energy Density VO₂F Cathode upon Heating and Li Cycling. ACS Applied Energy Materials, 2018, 1, 4514-4521.	2.5	10
52	Electrochemical Performance of Nanosized Disordered LiVOPO₄. ACS Omega, 2018, 3, 7310-7323.	1.6	29
53	KVOPO₄: A New High Capacity Multielectron Naâ€Ion Battery Cathode. Advanced Energy Materials, 2018, 8, 1800221.	10.2	50
54	Enabling multi-electron reaction of Îµ-VOPO₄ to reach theoretical capacity for lithium-ion batteries. Chemical Communications, 2018, 54, 7802-7805.	2.2	51

#	Article	IF	Citations
55	Atomic Insight into the Layered/Spinel Phase Transformation in Charged LiNi_{0.80}Co_{0.15}Al_{0.05}O₂ Cathode Particles. Journal of Physical Chemistry C, 2017, 121, 1421-1430.	1.5	52
56	Structure Evolution and Thermal Stability of High-Energy- Density Li-Ion Battery Cathode Li₂VO₂F. Journal of the Electrochemical Society, 2017, 164, A1552-A1558.	1.3	27
57	Morphology, composition and electrochemistry of a nano-porous silicon versus bulk silicon anode for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3670-3677.	1.7	21
58	Formation of an Anti-Coreâ€“Shell Structure in Layered Oxide Cathodes for Li-Ion Batteries. ACS Energy Letters, 2017, 2, 2598-2606.	8.8	42
59	Rock-Salt Growth-Induced (003) Cracking in a Layered Positive Electrode for Li-Ion Batteries. ACS Energy Letters, 2017, 2, 2607-2615.	8.8	116
60	The Intermediate State of the Layered â†’ Spinel Phase Transformation in LiNi_{0.80}Co_{0.15}Al_{0.05}O₂ Cathode. Microscopy and Microanalysis, 2017, 23, 2014-2015.	0.2	1
61	Narrowing the Gap between Theoretical and Practical Capacities in Liâ€Ion Layered Oxide Cathode Materials. Advanced Energy Materials, 2017, 7, 1602888.	10.2	455
62	Comparison of the polymorphs of VOPO₄ as multi-electron cathodes for rechargeable alkali-ion batteries. Journal of Materials Chemistry A, 2017, 5, 17421-17431.	5.2	46
63	Îµ- and Î²-LiVOPO₄: Phase Transformation and Electrochemistry. ACS Applied Materials & Interfaces, 2017, 9, 28537-28541.	4.0	27
64	Electrochemically synthesized nanoporous gold as a cathode material for Li-O2 batteries. Journal of Solid State Electrochemistry, 2017, 21, 463-468.	1.2	7
65	Uniform second Li ion intercalation in solid state <i>Îµ</i>-LiVOPO4. Applied Physics Letters, 2016, 109, .	1.5	20
66	Nanotechnology for environmentally sustainable electromobility. Nature Nanotechnology, 2016, 11, 1039-1051.	15.6	117
67	What Happens to LiMnPO₄ upon Chemical Delithiation?. Inorganic Chemistry, 2016, 55, 4335-4343.	1.9	17
68	Tuning the Activity of Oxygen in LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Battery Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 27762-27771.	4.0	58
69	The Anode Challenge for Lithiumâ€Ion Batteries: A Mechanochemically Synthesized Snâ€“Feâ€“C Composite Anode Surpasses Graphitic Carbon. Advanced Science, 2016, 3, 1500229.	5.6	33
70	Thermal Stability and Reactivity of Cathode Materials for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 7013-7021.	4.0	93
71	Thermodynamics, Kinetics and Structural Evolution of Îµ-LiVOPO4 over Multiple Lithium Intercalation. Chemistry of Materials, 2016, 28, 1794-1805.	3.2	64
72	Li₃Mo₄P₅O₂₄: A Two-Electron Cathode for Lithium-Ion Batteries with Three-Dimensional Diffusion Pathways. Chemistry of Materials, 2016, 28, 2229-2235.	3.2	20

#	Article	IF	Citations
73	Electrochemical Performance of Lithium-Ion Hybrid Supercapacitors based on Activated Carbon and Nanoplatelet Li₄Ti₅O₁₂ Insertion Electrode Synthesized by Nanoscission Technique. Materials Research Society Symposia Proceedings, 2015, 1740, 25.	0.1	1
74	Effect of Al₂O₃ Coating on Stabilizing LiNi_{0.4}Mn_{0.4}Co_{0.2}O₂ Cathodes. Chemistry of Materials, 2015, 27, 6146-6154.	3.2	185
75	Structure Stabilization by Mixed Anions in Oxyfluoride Cathodes for High-Energy Lithium Batteries. ACS Nano, 2015, 9, 10076-10084.	7.3	54
76	Mg Substitution Clarifies the Reaction Mechanism of Olivine LiFePO₄. Advanced Energy Materials, 2015, 5, 1401204.	10.2	29
77	Introduction: Batteries. Chemical Reviews, 2014, 114, 11413-11413.	23.0	50
78	Single-Phase Lithiation and Delithiation of Simferite Compounds Li(Mg,Mn,Fe)PO₄. Chemistry of Materials, 2014, 26, 6206-6212.	3.2	6
79	Ultimate Limits to Intercalation Reactions for Lithium Batteries. Chemical Reviews, 2014, 114, 11414-11443.	23.0	920
80	Hydrothermal synthesis, structure refinement, and electrochemical characterization of Li₂CoGeO₄ as an oxygen evolution catalyst. Journal of Materials Chemistry A, 2014, 2, 18428-18434.	5.2	6
81	Understanding the stability of MnPO₄. Journal of Materials Chemistry A, 2014, 2, 12827.	5.2	23
82	A Î²-VOPO4/Îµ-VOPO4 composite Li-ion battery cathode. Electrochemistry Communications, 2014, 46, 67-70.	2.3	25
83	Towards understanding the rate capability of layered transition metal oxides LiNiyMnyCo1â^'2yO2. Journal of Power Sources, 2014, 268, 106-112.	4.0	41
84	Study of the Transition Metal Ordering in Layered Na_{<i>x</i>}Ni_{<i>x</i>/2}Mn_{1â€"<i>x</i>/2}O₂ (2/3 â‰) Tj ETQq0 0 0 rgBT /Overlock	[illegible]	[illegible]
85	Layered Molybdenum (Oxy)Pyrophosphate as Cathode for Lithium-Ion Batteries. Chemistry of Materials, 2013, 25, 3513-3521.	3.2	32
86	An Organic Coprecipitation Route to Synthesize High Voltage LiNi_{0.5}Mn_{1.5}O₄. ACS Applied Materials & Interfaces, 2013, 5, 10227-10232.	4.0	69
87	Lithiumâ€"oxygen batteries: bridging mechanistic understanding and battery performance. Energy and Environmental Science, 2013, 6, 750.	15.6	825
88	The Structural and Electrochemical Impact of Li and Fe Site Substitution in LiFePO4. Chemistry of Materials, 2013, 25, 2691-2699.	3.2	58
89	Why Substitution Enhances the Reactivity of LiFePO₄. Chemistry of Materials, 2013, 25, 85-89.	3.2	63
90	Electrochemical Behavior of Nanostructured É›-VOPO4over Two Redox Plateaus. Journal of the Electrochemical Society, 2013, 160, A1777-A1780.	1.3	36

#	Article	IF	Citations
91	History, Evolution, and Future Status of Energy Storage. Proceedings of the IEEE, 2012, 100, 1518-1534.	16.4	657
92	Structure, defects and thermal stability of delithiated olivine phosphates. Journal of Materials Chemistry, 2012, 22, 20482.	6.7	18
93	Spin-Transfer Pathways in Paramagnetic Lithium Transition-Metal Phosphates from Combined Broadband Isotropic Solid-State MAS NMR Spectroscopy and DFT Calculations. Journal of the American Chemical Society, 2012, 134, 17178-17185.	6.6	122
94	Crystal Structure, Physical Properties, and Electrochemistry of Copper Substituted LiFePO₄ Single Crystals. Chemistry of Materials, 2012, 24, 166-173.	3.2	31
95	Oxygen and transition metal involvement in the charge compensation mechanism of LiNi1/3Mn1/3Co1/3O2 cathodes. Journal of Materials Chemistry, 2012, 22, 19993.	6.7	56
96	What can we learn about battery materials from their magnetic properties?. Journal of Materials Chemistry, 2011, 21, 9865.	6.7	91
97	Tin-Iron Based Nano-Materials as Anodes for Li-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A1498.	1.3	23
98	Can Vanadium Be Substituted into LiFePO₄?. Chemistry of Materials, 2011, 23, 4733-4740.	3.2	110
99	Conversion Reaction Mechanisms in Lithium Ion Batteries: Study of the Binary Metal Fluoride Electrodes. Journal of the American Chemical Society, 2011, 133, 18828-18836.	6.6	492
100	Iron and Manganese Pyrophosphates as Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2011, 23, 293-300.	3.2	123
101	Extremely Durable Highâ€Rate Capability of a LiNi_{0.4}Mn_{0.4}Co_{0.2}O₂ Cathode Enabled with Singleâ€Walled Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 58-62.	10.2	74
102	Stability and Rate Capability of Al Substituted Lithium-Rich High-Manganese Content Oxide Materials for Li-Ion Batteries. Journal of the Electrochemical Society, 2011, 159, A116-A120.	1.3	65
103	Structure and Stability of Olivine Phase FePO4. Materials Research Society Symposia Proceedings, 2011, 1333, 30301.	0.1	2
104	Comparative Study of the Capacity and Rate Capability of LiNiyMnyCo1â€“2yO2 (yâ€‰=â€‰0.5, 0.45, 0.4, 0.33). Journal of the Electrochemical Society, 2011, 158, A516.	1.3	74
105	Electrochemical Behavior of the Amorphous Tinâ€“Cobalt Anode. Electrochemical and Solid-State Letters, 2010, 13, A184.	2.2	39
106	Influence of Manganese Content on the Performance of LiNi_{0.9â^’<i>y</i>}Mn_{<i>y</i>}Co_{0.1}O₂ (0.45 â‰ <i>y</i> â‰) Tj ETQq0 0 0 rgBT /C	3.2	55
107	Electrospun nano-vanadium pentoxide cathode. Electrochemistry Communications, 2009, 11, 522-525.	2.3	118
108	Copper pyrazole directed crystallization of decavanadates: synthesis and characterization of {Cu(pz)}₄[{Cu(pz)₃}₂V₁₀O₂₈] and (Hpz)₂[{Cu(pz)₄}₂V₁₀O₂₈]Â·2H₂O. CrystEngComm, 2009, 11, 625-631.	1.3	40

#	Article	IF	Citations
109	Layered vanadium and molybdenum oxides: batteries and electrochromics. Journal of Materials Chemistry, 2009, 19, 2526.	6.7	795
110	The hydrothermal synthesis and characterization of olivines and related compounds for electrochemical applications. Solid State Ionics, 2008, 178, 1676-1693.	1.3	274
111	Synthesis and characterization of layered and scrolled amine-templated vanadium oxides. Journal of Materials Science, 2008, 43, 4742-4748.	1.7	23
112	Materials Challenges Facing Electrical Energy Storage. MRS Bulletin, 2008, 33, 411-419.	1.7	608
113	Inorganic nanomaterials for batteries. Dalton Transactions, 2008, , 5424.	1.6	102
114	Layered Mixed Transition Metal Oxide Cathodes with Reduced Cobalt Content for Lithium Ion Batteries. Chemistry of Materials, 2008, 20, 7454-7464.	3.2	111
115	Layered Li<i>_x</i>Ni<i>_y</i>Mn<i>_y</i>Co₁₋₂<i>_y</i>O₂ Cathodes for Lithium Ion Batteries:â€‰ Understanding Local Structure via Magnetic Properties. Chemistry of Materials, 2007, 19, 4682-4693.	3.2	127
116	Electrospun Manganese Oxide Nanofibers as Anodes for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2007, 10, A48.	2.2	108
117	Characterization of Amorphous and Crystalline Tinâ€“Cobalt Anodes. Electrochemical and Solid-State Letters, 2007, 10, A274.	2.2	121
118	Hydrothermal synthesis of cathode materials. Journal of Power Sources, 2007, 174, 442-448.	4.0	143
119	Structural and electrochemical behavior of LiMn0.4Ni0.4Co0.2O2. Journal of Power Sources, 2007, 165, 517-534.	4.0	116
120	Electrospinning of Single-Crystal Vanadium Oxide Nanorods. Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	0
121	Phosphoric acid imidazolium dihydrogenphosphate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o258-o260.	0.2	3
122	Hydrothermal synthesis of copper coordination polymers based on molybdates: Chemistry issues. Journal of Molecular Structure, 2006, 796, 179-186.	1.8	17
123	Magnetic Studies of Layered Cathode Materials for Lithium Ion Batteries. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	3
124	Influence of Lithium Content on Performance of Layered Li1+z[Ni0.45Mn0.45Co0.1]1-zO2 in Lithium Ion Batteries. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	1
125	The Hydrothermal Synthesis of Lithium Iron Phosphate. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	1
126	Iron Phosphates as Cathodes of Lithium-Ion Batteries. Materials Research Society Symposia Proceedings, 2006, 973, 1.	0.1	0

#	Article	IF	Citations
127	Nanosized Amorphous Materials as Anodes for Lithium Batteries. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	1
128	Synthesis of vanadium oxide nanofibers and tubes using polylactide fibers as template. Materials Research Bulletin, 2005, 40, 383-393.	2.7	42
129	Îµ-VOPO[sub 4]: Electrochemical Synthesis and Enhanced Cathode Behavior. Journal of the Electrochemical Society, 2005, 152, A721.	1.3	86
130	Synthesis, Crystal Structure, and Electrochemical and Magnetic Study of New Iron (III) Hydroxyl-Phosphates, Isostructural with Lipscombite. Chemistry of Materials, 2005, 17, 1139-1147.	3.2	53
131	Some transition metal (oxy)phosphates and vanadium oxides for lithium batteries. Journal of Materials Chemistry, 2005, 15, 3362.	6.7	278
132	Anode Hosts for Lithium Batteries: Revisiting Tin and Aluminum. Materials Research Society Symposia Proceedings, 2004, 835, K6.16.1.	0.1	3
133	Structural and Electrochemical Properties of LiMn0.4Ni0.4Co0.2O2. Materials Research Society Symposia Proceedings, 2004, 835, K11.3.1.	0.1	2
134	Lithium Batteries and Cathode Materials. ChemInform, 2004, 35, no.	0.1	19
135	Synthesis, crystal structures and magnetic properties of organically templated new layered vanadates: [C4H8NH2]V3O7, [(CH3)2NH2]V3O7, [C5H10NH2]V3O7 and [C2H5NH3]V3O7. Journal of Materials Chemistry, 2004, 14, 2922.	6.7	17
136	Introduction:â€‰ Batteries and Fuel Cells. Chemical Reviews, 2004, 104, 4243-4244.	23.0	175
137	The synthesis, characterization and electrochemical behavior of the layered LiNi0.4Mn0.4Co0.2O2 compound. Journal of Materials Chemistry, 2004, 14, 214.	6.7	234
138	Lithium Batteries and Cathode Materials. Chemical Reviews, 2004, 104, 4271-4302.	23.0	5,407
139	Comparison of one-, two-, and three-dimensional iron phosphates containing ethylenediamine. Journal of Solid State Chemistry, 2003, 175, 63-71.	1.4	19
140	Performance of LiFePO4 as lithium battery cathode and comparison with manganese and vanadium oxides. Journal of Power Sources, 2003, 119-121, 239-246.	4.0	100
141	Two novel open-framework zinc phosphates: (CH3NH3)Zn4(PO4)3 and (CH3NH3)2Zn5(PO4)4Electronic supplementary information (ESI) available: tables for atomic coordinates and anisotropic parameters and full list of bond lengths and bond angles. See http://www.rsc.org/suppdata/jm/b3/b303910b/. Journal of Materials Chemistry, 2003, 13, 1936.	6.7	8
142	Solvothermal synthesis and characterization of a layered pyridinium vanadate, (C5H6N)V3O7. Journal of Materials Chemistry, 2003, 13, 1424.	6.7	9
143	Vanadium Oxide Nanofibers and Vanadium Oxide Polyaniline Nanocomposite: Preparation, Characterization and Electrochemical Behavior. Materials Research Society Symposia Proceedings, 2003, 788, 551.	0.1	0
144	New Iron (III) Hydroxyl-Phosphate with Rod-packing Structure as Intercalation Materials. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	1

#	Article	IF	Citations
145	Synthesis of Novel Vanadium Oxide Nanotubes and Nanofibers. Materials Research Society Symposia Proceedings, 2002, 740, 1.	0.1	2
146	Synthesis and Characterization of New Iron and Zinc Phosphate Materials with Open Framework. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	2
147	The Syntheses and Characterization of Layered LiNi1-y-zMnyCozO2 Compounds. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
148	New Iron(III) Phosphate Phases:Â Crystal Structure and Electrochemical and Magnetic Properties. Inorganic Chemistry, 2002, 41, 5778-5786.	1.9	172
149	The first example of a novel one-dimensional cyclic tetrameric metavanadate: [PPh4]2V4O11. CrystEngComm, 2002, 4, 601.	1.3	13
150	Temperature-dependent properties of FePO4 cathode materials. Materials Research Bulletin, 2002, 37, 1249-1257.	2.7	121
151	Reactivity, stability and electrochemical behavior of lithium iron phosphates. Electrochemistry Communications, 2002, 4, 239-244.	2.3	339
152	Manganese Vanadium Oxide Nanotubes:Â Synthesis, Characterization, and Electrochemistry. Chemistry of Materials, 2001, 13, 4382-4386.	3.2	174
153	Control of the structure and properties of vanadium and manganese oxides through tailored soft synthesis. Solid State Sciences, 2001, 3, 1231-1236.	0.8	13
154	Vanadium Oxide Nanotubes: Characterization and Electrochemical Behavior. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	0
155	Hydrothermal synthesis of lithium iron phosphate cathodes. Electrochemistry Communications, 2001, 3, 505-508.	2.3	520
156	Nanocomposite Electrodes for Advanced Lithium Batteries: The LiFePO4 Cathode. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	0
157	Vanadium Oxide Frameworks Modified with Transition Metals. Materials Research Society Symposia Proceedings, 2000, 658, 1071.	0.1	1
158	Manganese Vanadium Oxide Compounds as Cathodes for Lithium Batteries. Materials Research Society Symposia Proceedings, 2000, 658, 9161.	0.1	0
159	Synthesis and electrochemistry of a vanadium-pillared manganese oxide. Electrochemistry Communications, 2000, 2, 445-447.	2.3	26
160	Manganese dioxides as cathodes for lithium rechargeable cells: the stability challenge. Solid State Ionics, 2000, 131, 109-115.	1.3	53
161	Insertion electrodes as SMART materials: the first 25 years and future promises. Solid State Ionics, 2000, 134, 169-178.	1.3	54
162	Science and Applications of Mixed Conductors for Lithium Batteries. MRS Bulletin, 2000, 25, 39-46.	1.7	81

#	Article	IF	Citations
163	Structural chemistry of vanadium oxides with open frameworks. Acta Crystallographica Section B: Structural Science, 1999, 55, 627-663.	1.8	301
164	The hydrothermal synthesis of the new manganese and vanadium oxides, NiMnO3H, MAV3O7 and MA0.75V4O10Â·0.67H2O (MA=CH3NH3). Journal of Materials Chemistry, 1999, 9, 93-100.	6.7	23
165	Synthesis and characterization of a pipe-structure manganese vanadium oxide by hydrothermal reaction. Journal of Materials Chemistry, 1999, 9, 3137-3140.	6.7	29
166	Low-temperature Synthesis Routes of Alkali-metal Molybdenum Bronzes. Chemistry Letters, 1999, 28, 811-812.	0.7	6
167	The stabilization of layered Manganese Oxides for use in Rechargeable Lithium Batteries. Materials Research Society Symposia Proceedings, 1999, 575, 77.	0.1	1
168	Synthesis and Characterization of Manganese Vanadium Oxides as Cathodes in Lithium Batteries. Materials Research Society Symposia Proceedings, 1999, 581, 497.	0.1	0
169	Modified Sol-Gel Synthesis of Vanadium Oxide Nanocomposites Containing Surfactant Ions. Materials Research Society Symposia Proceedings, 1999, 581, 387.	0.1	0
170	A Study of The Li|LixV2O4 Cell. Materials Research Society Symposia Proceedings, 1998, 548, 239.	0.1	0
171	Hydrothermal Synthesis of Vanadium Oxides. Chemistry of Materials, 1998, 10, 2629-2640.	3.2	352
172	Structure of Hydrated Tungsten Peroxides [WO2(O2)H2O]Â·nH2O. Chemistry of Materials, 1998, 10, 1882-1888.	3.2	55
173	The Hydrothermal Synthesis of KzMnO2 in the Presence of Citric Acid. Materials Research Society Symposia Proceedings, 1998, 548, 125.	0.1	1
174	The Hydrothermal Synthesis and Characterization of New Organically Templated Layered Vanadium Oxides by Methylamine. Materials Research Society Symposia Proceedings, 1997, 497, 173.	0.1	0
175	Hydrothermal Synthesis and Characterization of A Series of Novel Zinc Vanadium Oxides as Cathode Materials. Materials Research Society Symposia Proceedings, 1997, 496, 367.	0.1	12
176	Cathodic Behavior of Alkali Manganese Oxides from Permanganate. Journal of the Electrochemical Society, 1997, 144, L64-L67.	1.3	77
177	Evidence for Decavanadate Clusters in the Lamellar Surfactant Ion Phase. Chemistry of Materials, 1997, 9, 647-649.	3.2	60
178	Hydrothermal Synthesis and Characterization of KxMnO2Â·yH2O. Chemistry of Materials, 1996, 8, 1275-1280.	3.2	172
179	Hydrothermal synthesis of transition metal oxides under mild conditions. Current Opinion in Solid State and Materials Science, 1996, 1, 227-232.	5.6	115
180	Novel Tungsten, Molybdenum, and Vanadium Oxides Containing Surfactant Ions. Chemistry of Materials, 1996, 8, 2096-2101.	3.2	134

#	Article	IF	Citations
181	Hydrothermal Synthesis of Vanadium Oxides. Materials Research Society Symposia Proceedings, 1996, 453, 135.	0.1	2
182	Fluorophlogopite and Taeniolite: Synthesis and Nanocomposite Formation. Materials Research Society Symposia Proceedings, 1996, 457, 501.	0.1	1
183	Low Temperature Synthesis of Lamellar Transition Metal Oxides Containing Surfactant Ions. Materials Research Society Symposia Proceedings, 1996, 457, 533.	0.1	2
184	Hydrothermal Synthesis of Novel Vanadium Oxides. Materials Research Society Symposia Proceedings, 1996, 453, 115.	0.1	0
185	A New Vanadium Dioxide Cathode. Journal of the Electrochemical Society, 1996, 143, L193-L195.	1.3	54
186	New Manganese Oxides by Hydrothermal Reaction of Permanganates. Materials Research Society Symposia Proceedings, 1996, 453, 653.	0.1	4
187	Hydrothermal synthesis of electrode materials pyrochlore tungsten trioxide film. Journal of Power Sources, 1995, 54, 461-464.	4.0	34
188	The hydrothermal synthesis of new oxide materials. Solid State Ionics, 1995, 75, 257-268.	1.3	126
189	Hydrothermal Synthesis of a New Molybdate with a Layered Structure, (NMe4)Mo4-.delta.O12. Chemistry of Materials, 1994, 6, 357-359.	3.2	37
190	TUNGSTEN OXIDES AND BRONZES: SYNTHESIS, DIFFUSION AND REACTIVITY. International Journal of Modern Physics B, 1993, 07, 4145-4164.	1.0	32
191	Synthesis of novel compounds with the pyrochlore and hexagonal tungsten bronze structures. Journal of Solid State Chemistry, 1992, 96, 31-47.	1.4	74
192	Ion Transport in Single Crystals of the Clay-Like Aluminosilicate, Vermiculite. Materials Research Society Symposia Proceedings, 1990, 210, 351.	0.1	6
193	Synthesis, Diffusion and Ion-Exchange in Open Structure Sodium Tungstates and Ybacu Tungstates. Materials Research Society Symposia Proceedings, 1990, 210, 473.	0.1	3
194	Hydrothermal synthesis of sodium tungstates. Chemistry of Materials, 1990, 2, 219-221.	3.2	75
195	Mixed Conductors: Synthesis, Properties, Applications. MRS Bulletin, 1989, 14, 31-38.	1.7	8
196	A Mixed Rate Cathode for Lithium Batteries. Journal of the Electrochemical Society, 1981, 128, 485-486.	1.3	11
197	Niobium Triselenide in a Lithium Dioxolane Cell. Journal of the Electrochemical Society, 1981, 128, 706-707.	1.3	7
198	Lithium Closoboranes as Electrolytes in Solid Cathode Lithium Cells. Journal of the Electrochemical Society, 1980, 127, 1653-1654.	1.3	29

#	Article	IF	Citations
199	Layered compounds and intercalation chemistry: An example of chemistry and diffusion in solids. Journal of Chemical Education, 1980, 57, 569.	1.1	29
200	New Iron Sulfur Cathodes for Nonaqueous Lithium Batteries. Journal of the Electrochemical Society, 1979, 126, 887-891.	1.3	25
201	nâ€Butyllithiumâ€"An Effective, General Cathode Screening Agent. Journal of the Electrochemical Society, 1977, 124, 1387-1388.	1.3	150
202	The Role of Ternary Phases in Cathode Reactions. Journal of the Electrochemical Society, 1976, 123, 315-320.	1.3	665
203	Intercalation and lattice expansion in titanium disulfide. Journal of Chemical Physics, 1975, 62, 1588-1588.	1.2	52
204	Free Energy of Formation of Sodium Tungsten Bronzes, Na x â€‰WOâ€‰3. Journal of the Electrochemical Society, 1975, 122, 713-714.	1.3	43
205	Mechanism of Reduction of the Fluorographite Cathode. Journal of the Electrochemical Society, 1975, 122, 526-527.	1.3	107
206	Electrointercalation in transition-metal disulphides. Journal of the Chemical Society Chemical Communications, 1974, , 328.	2.0	55
207	Fast ion transport materials and batteries. , 1974, , .		2
208	Measurement of Sodium Ion Transport in Beta Alumina Using Reversible Solid Electrodes. Journal of Chemical Physics, 1971, 54, 414-416.	1.2	346
209	The Relationship between Structure and Cell Properties of the Cathode for Lithium Batteries. , 0, , 49-66.		5
210	Electrochemical energy storage: batteries and capacitors. , 0, , 608-623.		3
211	What is the Role of Nb in Nickel-Rich Layered Oxide Cathodes for Lithium-Ion Batteries?. ACS Energy Letters, 0, , 1377-1382.	8.8	107
212	Systematic Evaluation of Carbon Hosts for High-Energy Rechargeable Lithium-Metal Batteries. ACS Energy Letters, 0, , 1550-1559.	8.8	20