

Jean Marie Tarascon

List of Publications by Year in descending order

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386
papers

87,300
citations

1532

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391
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391
docs citations

391
times ranked

43528
citing authors

#	ARTICLE	IF	CITATIONS
1	Issues and challenges facing rechargeable lithium batteries. <i>Nature</i> , 2001, 414, 359-367.	13.7	17,629
2	Electrical Energy Storage for the Grid: A Battery of Choices. <i>Science</i> , 2011, 334, 928-935.	6.0	11,724
3	Nano-sized transition-metal oxides as negative-electrode materials for lithium-ion batteries. <i>Nature</i> , 2000, 407, 496-499.	13.7	7,523
4	Nanomaterials for Rechargeable Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2930-2946.	7.2	5,473
5	Fundamental understanding and practical challenges of anionic redox activity in Li-ion batteries. <i>Nature Energy</i> , 2018, 3, 373-386.	19.8	962
6	Is lithium the new gold?. <i>Nature Chemistry</i> , 2010, 2, 510-510.	6.6	945
7	The role of LiO ₂ solubility in O ₂ reduction in aprotic solvents and its consequences for Li-O ₂ batteries. <i>Nature Chemistry</i> , 2014, 6, 1091-1099.	6.6	942
8	Sustainability and in situ monitoring in battery development. <i>Nature Materials</i> , 2017, 16, 45-56.	13.3	930
9	CoO ₂ , The End Member of the Li _x CoO ₂ Solid Solution. <i>Journal of the Electrochemical Society</i> , 1996, 143, 1114-1123.	1.3	892
10	V ₂ O ₅ -Anchored Carbon Nanotubes for Enhanced Electrochemical Energy Storage. <i>Journal of the American Chemical Society</i> , 2011, 133, 16291-16299.	6.6	890
11	The Spinel Phase of LiMn ₂ O ₄ as a Cathode in Secondary Lithium Cells. <i>Journal of the Electrochemical Society</i> , 1991, 138, 2859-2864.	1.3	863
12	Structural and physical properties of the metal (M) substituted YBa ₂ Cu ₃ xMxO _{7-y} perovskite. <i>Physical Review B</i> , 1988, 37, 7458-7469.	1.1	816
13	Na ₂ Ti ₃ O ₇ : Lowest Voltage Ever Reported Oxide Insertion Electrode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2011, 23, 4109-4111.	3.2	742
14	In search of an optimized electrolyte for Na-ion batteries. <i>Energy and Environmental Science</i> , 2012, 5, 8572.	15.6	736
15	Synthesis Conditions and Oxygen Stoichiometry Effects on Li Insertion into the Spinel LiMn ₂ O ₄ . <i>Journal of the Electrochemical Society</i> , 1994, 141, 1421-1431.	1.3	694
16	Crystal substructure and physical properties of the superconducting phase Bi ₄ (Sr,Ca) ₆ Cu ₄ O _{16+x} . <i>Physical Review B</i> , 1988, 37, 9382-9389.	1.1	688
17	Recent findings and prospects in the field of pure metals as negative electrodes for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2007, 17, 3759.	6.7	681
18	Visualization of O-O peroxy-like dimers in high-capacity layered oxides for Li-ion batteries. <i>Science</i> , 2015, 350, 1516-1521.	6.0	659

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19	Room-temperature single-phase Li ⁺ insertion/extraction in nanoscale Li _x FePO ₄ . <i>Nature Materials</i> , 2008, 7, 741-747.	13.3	639
20	Real-Time NMR Investigations of Structural Changes in Silicon Electrodes for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2009, 131, 9239-9249.	6.6	634
21	Oxygen and rare-earth doping of the 90-K superconducting perovskite YBa ₂ Cu ₃ O _{7-x} . <i>Physical Review B</i> , 1987, 36, 226-234.	1.1	595
22	Mixed-Valence Li/Fe-Based Metal-Organic Frameworks with Both Reversible Redox and Sorption Properties. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3259-3263.	7.2	583
23	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. <i>Progress in Materials Science</i> , 2016, 76, 319-380.	16.0	579
24	Li Metal-Free Rechargeable LiMn ₂ O ₄ /Carbon Cells: Their Understanding and Optimization. <i>Journal of the Electrochemical Society</i> , 1992, 139, 937-948.	1.3	577
25	From Biomass to a Renewable Li ₆ C ₆ O ₆ Organic Electrode for Sustainable Li-Ion Batteries. <i>ChemSusChem</i> , 2008, 1, 348-355.	3.6	577
26	Cathode Composites for Li-S Batteries via the Use of Oxygenated Porous Architectures. <i>Journal of the American Chemical Society</i> , 2011, 133, 16154-16160.	6.6	568
27	Review—Li-Rich Layered Oxide Cathodes for Next-Generation Li-Ion Batteries: Chances and Challenges. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2490-A2499.	1.3	552
28	Oxygen Reactions in a Non-Aqueous Li ⁺ Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6351-6355.	7.2	518
29	A Transmission Electron Microscopy Study of the Reactivity Mechanism of Tailor-Made CuO Particles toward Lithium. <i>Journal of the Electrochemical Society</i> , 2001, 148, A1266.	1.3	481
30	Preparation, structure, and properties of the superconducting compound series Bi ₂ Sr ₂ Ca ⁿ 1Cu _n O _y with n=1, 2, and 3. <i>Physical Review B</i> , 1988, 38, 8885-8892.	1.1	479
31	Dendrite short-circuit and fuse effect on Li/polymer/Li cells. <i>Electrochimica Acta</i> , 2006, 51, 5334-5340.	2.6	479
32	The existence of a temperature-driven solid solution in Li _x FePO ₄ for 0 < x < 1. <i>Nature Materials</i> , 2005, 4, 254-260.	13.3	478
33	Lithium Salt of Tetrahydroxybenzoquinone: Toward the Development of a Sustainable Li-Ion Battery. <i>Journal of the American Chemical Society</i> , 2009, 131, 8984-8988.	6.6	438
34	Activation of surface oxygen sites on an iridium-based model catalyst for the oxygen evolution reaction. <i>Nature Energy</i> , 2017, 2, .	19.8	435
35	Fundamental interplay between anionic/cationic redox governing the kinetics and thermodynamics of lithium-rich cathodes. <i>Nature Communications</i> , 2017, 8, 2219.	5.8	429
36	Li Metal-Free Rechargeable Batteries Based on Li _{1-x} Mn ₂ O ₄ Cathodes (0 < x < 1). <i>Journal of the Electrochemical Society</i> , 1991, 138, 2864-2868.	1.3	396

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37	Mechanochemical synthesis of Li-argyrodite Li ₆ PS ₅ X (X=Cl, Br, I) as sulfur-based solid electrolytes for all solid state batteries application. <i>Solid State Ionics</i> , 2012, 221, 1-5.	1.3	371
38	Fatigue and retention in ferroelectric YBaCuO/PbZrTiO/YBaCuO heterostructures. <i>Applied Physics Letters</i> , 1992, 61, 1537-1539.	1.5	369
39	Pair Distribution Function Analysis and Solid State NMR Studies of Silicon Electrodes for Lithium Ion Batteries: Understanding the (De)lithiation Mechanisms. <i>Journal of the American Chemical Society</i> , 2011, 133, 503-512.	6.6	368
40	Correlation Between Microstructure and Na Storage Behavior in Hard Carbon. <i>Advanced Energy Materials</i> , 2016, 6, 1501588.	10.2	364
41	Superconductivity at 40 K in the Oxygen-Defect Perovskites La _{2-x} Sr _x CuO _{4-y} . <i>Science</i> , 1987, 235, 1373-1376.	6.0	344
42	Deciphering the multi-step degradation mechanisms of carbonate-based electrolyte in Li batteries. <i>Journal of Power Sources</i> , 2008, 178, 409-421.	4.0	338
43	3d-metal doping of the high-temperature superconducting perovskites La-Sr-Cu-O and Y-Ba-Cu-O. <i>Physical Review B</i> , 1987, 36, 8393-8400.	1.1	292
44	Evidence for anionic redox activity in a tridimensional-ordered Li-rich positive electrode $\text{Li}_2\text{-Li}_2\text{IrO}_3$. <i>Nature Materials</i> , 2017, 16, 580-586.	13.3	290
45	Hall effect of La _{2-x} Sr _x CuO ₄ : Implications for the electronic structure in the normal state. <i>Physical Review B</i> , 1987, 35, 8807-8810.	1.1	280
46	As-deposited high T _c and J _c superconducting thin films made at low temperatures. <i>Applied Physics Letters</i> , 1988, 53, 908-910.	1.5	270
47	Li-S batteries: simple approaches for superior performance. <i>Energy and Environmental Science</i> , 2013, 6, 176.	15.6	266
48	Towards systems materials engineering. <i>Nature Materials</i> , 2012, 11, 560-563.	13.3	255
49	Variation of superconductivity with carrier concentration in oxygen-doped YBa ₂ Cu ₃ O _{7-y} . <i>Physical Review B</i> , 1987, 36, 7222-7225.	1.1	250
50	Role of bond lengths in the 90-K superconductor: A neutron powder-diffraction study of YBa ₂ Cu _{3-x} CoxO _{7-y} . <i>Physical Review B</i> , 1988, 37, 5932-5935.	1.1	245
51	Li-ion Battery Analyzed by UV/Vis in Operando Mode. <i>ChemSusChem</i> , 2013, 6, 1177-1181.	3.6	243
52	Low-temperature preparation of high T _c superconducting thin films. <i>Applied Physics Letters</i> , 1988, 52, 754-756.	1.5	236
53	Na-ion versus Li-ion Batteries: Complementarity Rather than Competitiveness. <i>Joule</i> , 2020, 4, 1616-1620.	11.7	227
54	Live Scanning Electron Microscope Observations of Dendritic Growth in Lithium/Polymer Cells. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, A286.	2.2	226

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55	Epitaxial ordering of oxide superconductor thin films on (100) SrTiO ₃ prepared by pulsed laser evaporation. Applied Physics Letters, 1987, 51, 861-863.	1.5	225
56	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis. Chemistry of Materials, 2010, 22, 724-739.	3.2	224
57	NaxVO ₂ as possible electrode for Na-ion batteries. Electrochemistry Communications, 2011, 13, 938-941.	2.3	221
58	Epitaxial Cuprate Superconductor/Ferroelectric Heterostructures. Science, 1991, 252, 944-946.	6.0	220
59	Preparation and Characterization of a Stable FeSO ₄ -Based Framework for Alkali Ion Insertion Electrodes. Chemistry of Materials, 2012, 24, 4363-4370.	3.2	210
60	Higher energy and safer sodium ion batteries via an electrochemically made disordered Na ₃ V ₂ (PO ₄) ₂ F ₃ material. Nature Communications, 2019, 10, 585.	5.8	207
61	Room-temperature structure of the 90-K bulk superconductor YBa ₂ Cu ₃ O _{8-x} . Physical Review B, 1987, 35, 7245-7248.	1.1	206
62	Rechargeable Li _{1-x} Mn ₂ O ₄ /Carbon Cells with a New Electrolyte Composition: Potentiostatic Studies and Application to Practical Cells. Journal of the Electrochemical Society, 1993, 140, 3071-3081.	1.3	203
63	Ethoxycarbonyl-Based Organic Electrode for Li-Batteries. Journal of the American Chemical Society, 2010, 132, 6517-6523.	6.6	201
64	Microsized Sn as Advanced Anodes in Glyme-Based Electrolyte for Na-ion Batteries. Advanced Materials, 2016, 28, 9824-9830.	11.1	199
65	Insertion compounds and composites made by ball milling for advanced sodium-ion batteries. Nature Communications, 2016, 7, 10308.	5.8	198
66	Synthesis, Structure, Characterization, and Redox Properties of the Porous MIL-68(Fe) Solid. European Journal of Inorganic Chemistry, 2010, 2010, 3789-3794.	1.0	191
67	Anionic Redox Activity in a Newly Zn-Doped Sodium Layered Oxide P ₂ Na _{2/3} Mn _{1-x} Zn _x O ₂ (0 < x < 1). Journal of the American Chemical Society, 2010, 132, 7843-7848.	11.0	187
68	Structural, Transport, and Electrochemical Investigation of Novel AMO ₄ F (A = Na, Li; M =) Chemistry, 2010, 49, 7401-7413.	1.9	166
69	Determination of dopant site occupancies in Cu-substituted YBa ₂ Cu ₃ O _{7-δ} by differential anomalous x-ray scattering. Physical Review B, 1989, 39, 9017-9027.	1.1	158
70	Understanding the Roles of Anionic Redox and Oxygen Release during Electrochemical Cycling of Lithium-Rich Layered Li ₄ FeSbO ₆ . Journal of the American Chemical Society, 2015, 137, 4804-4814.	6.6	155
71	Unlocking anionic redox activity in O ₃ -type sodium 3d layered oxides via Li substitution. Nature Materials, 2021, 20, 353-361.	13.3	155
72	Electrochemistry of Cu ₃ N with Lithium. Journal of the Electrochemical Society, 2003, 150, A1273.	1.3	153

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73	Nanoarchitected 3D Cathodes for Li-ion Microbatteries. <i>Advanced Materials</i> , 2010, 22, 4978-4981.	11.1	153
74	Preparation of Nanotextured VO ₂ [B] from Vanadium Oxide Aerogels. <i>Chemistry of Materials</i> , 2006, 18, 4369-4374.	3.2	151
75	Na Reactivity toward Carbonate-Based Electrolytes: The Effect of FEC as Additive. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2333-A2339.	1.3	151
76	Operando decoding of chemical and thermal events in commercial Na(Li)-ion cells via optical sensors. <i>Nature Energy</i> , 2020, 5, 674-683.	19.8	149
77	Positive Hall coefficient observed in single-crystal Nd _{2-x} Ce _x CuO ₄ at low temperatures. <i>Physical Review B</i> , 1991, 43, 3020-3025.	1.1	147
78	Development of Reliable Three-Electrode Impedance Measurements in Plastic Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2001, 148, A851.	1.3	142
79	Role of Electrolyte Anions in the NaO ₂ Battery: Implications for NaO ₂ Solvation and the Stability of the Sodium Solid Electrolyte Interphase in Glyme Ethers. <i>Chemistry of Materials</i> , 2017, 29, 6066-6075.	3.2	141
80	A New Approach to Develop Safe All-Inorganic Monolithic Li-ion Batteries. <i>Advanced Energy Materials</i> , 2011, 1, 179-183.	10.2	139
81	Editors' Choice Practical Assessment of Anionic Redox in Li-Rich Layered Oxide Cathodes: A Mixed Blessing for High Energy Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2965-A2976.	1.3	138
82	Approaching the limits of cationic and anionic electrochemical activity with the Li-rich layered rocksalt Li ₃ IrO ₄ . <i>Nature Energy</i> , 2017, 2, 954-962.	19.8	138
83	Sacrificial salts: Compensating the initial charge irreversibility in lithium batteries. <i>Electrochemistry Communications</i> , 2010, 12, 1344-1347.	2.3	137
84	Sulfate-Based Polyanionic Compounds for Li-Ion Batteries: Synthesis, Crystal Chemistry, and Electrochemistry Aspects. <i>Chemistry of Materials</i> , 2014, 26, 394-406.	3.2	137
85	Growth of single-crystal copper sulfide thin films via electrodeposition in ionic liquid media for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 5295.	6.7	134
86	Strong Oxygen Participation in the Redox Governing the Structural and Electrochemical Properties of Na-Rich Layered Oxide Na ₂ IrO ₃ . <i>Chemistry of Materials</i> , 2016, 28, 8278-8288.	3.2	132
87	Water-in-Salt Electrolyte (WiSE) for Aqueous Batteries: A Long Way to Practicality. <i>Advanced Energy Materials</i> , 2020, 10, 2002440.	10.2	130
88	Origin of the 110-K superconducting transition in the Bi-Sr-Ca-Cu-O system. <i>Physical Review B</i> , 1988, 38, 2504-2508.	1.1	129
89	A Chemical Approach to Raise Cell Voltage and Suppress Phase Transition in O ₃ Sodium Layered Oxide Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702599.	10.2	127
90	Probing the thermal effects of voltage hysteresis in anionic redox-based lithium-rich cathodes using isothermal calorimetry. <i>Nature Energy</i> , 2019, 4, 647-656.	19.8	126

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91	Solid state chemistry for developing better metal-ion batteries. Nature Communications, 2020, 11, 4976.	5.8	125
92	Epitaxial growth of ferroelectric bismuth titanate thin films by pulsed laser deposition. Applied Physics Letters, 1990, 57, 1505-1507.	1.5	124
93	Lithium molybdenum nitride (LiMoN ₂): the first metallic layered nitride. Chemistry of Materials, 1992, 4, 928-937.	3.2	124
94	Structure and electrochemical properties of novel mixed Li(Fe _{1-x} M _x)SO ₄ F (M = Co, Ni, Mn) phases fabricated by low temperature ionothermal synthesis. Journal of Materials Chemistry, 2010, 20, 1659.	6.7	123
95	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. Nature Energy, 2019, 4, 977-987.	19.8	123
96	Distorted chain sites for Co- and Fe-substituted YBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 1989, 39, 11603-11617.	1.1	122
97	X-ray Photoemission Spectroscopy Study of Cationic and Anionic Redox Processes in High-Capacity Li-Ion Battery Layered-Oxide Electrodes. Journal of Physical Chemistry C, 2016, 120, 862-874.	1.5	122
98	Reaching the Energy Density Limit of Layered O ₃ -NaNi _{0.5} Mn _{0.5} O ₂ Electrodes via Dual Cu and Ti Substitution. Advanced Energy Materials, 2019, 9, 1901785.	10.2	122
99	Low Temperature LiMn ₂ O ₄ Spinel Films for Secondary Lithium Batteries. Journal of the Electrochemical Society, 1992, 139, 1845-1849.	1.3	120
100	Structural properties of Ba ₂ RuCu ₃ O ₇ high-T _c superconductors. Physical Review B, 1987, 36, 3617-3621.	1.1	119
101	Synthesis and Electrochemical Properties of Vanadium Oxide Aerogels Prepared by a Freeze-Drying Process. Journal of the Electrochemical Society, 2004, 151, A666.	1.3	118
102	Mass Spectrometry Investigations on Electrolyte Degradation Products for the Development of Nanocomposite Electrodes in Lithium Ion Batteries. Analytical Chemistry, 2006, 78, 3688-3698.	3.2	116
103	Substrate effects on the properties of YBaCuO superconducting films prepared by laser deposition. Journal of Applied Physics, 1988, 63, 4591-4598.	1.1	114
104	Structure and magnetic properties of nonsuperconducting doped Co and FeBi ₂ Sr ₂ Cu _{1-x} M _x O _y phases. Physical Review B, 1989, 39, 11587-11598.	1.1	113
105	Electrochemical characterization of lithium 4,4-tolene-dicarboxylate for use as a negative electrode in Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 1615-1620.	6.7	112
106	The first in situ ⁷ Li nuclear magnetic resonance study of lithium insertion in hard-carbon anode materials for Li-ion batteries. Journal of Chemical Physics, 2003, 118, 6038-6045.	1.2	111
107	Synthesis of Li-Rich NMC: A Comprehensive Study. Chemistry of Materials, 2017, 29, 9923-9936.	3.2	111
108	Phosphate Ion Functionalization of Perovskite Surfaces for Enhanced Oxygen Evolution Reaction. Journal of Physical Chemistry Letters, 2017, 8, 3466-3472.	2.1	109

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109	Ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ thin films on epitaxial YBaCuO. Applied Physics Letters, 1991, 59, 3542-3544.	1.5	108
110	Chemical vs Electrochemical Formation of Li ₂ CO ₃ as a Discharge Product in Li ₂ O/CO ₂ Batteries by Controlling the Superoxide Intermediate. Journal of Physical Chemistry Letters, 2017, 8, 214-222.	2.1	108
111	The effects of moderate thermal treatments under air on LiFePO ₄ -based nano powders. Journal of Materials Chemistry, 2009, 19, 3979.	6.7	106
112	New concepts for the search of better electrode materials for rechargeable lithium batteries. Comptes Rendus Chimie, 2005, 8, 9-15.	0.2	105
113	Fabrication of thin film LiMn ₂ O ₄ cathodes for rechargeable microbatteries. Applied Physics Letters, 1991, 59, 1260-1262.	1.5	103
114	Anionic redox chemistry in Na-rich Na ₂ Ru _{1-x} Sn _y O ₃ positive electrode material for Na-ion batteries. Electrochemistry Communications, 2015, 53, 29-32.	2.3	103
115	Oxygen intercalation in the perovskite superconductor YBa ₂ Cu ₃ O _{6+x} . Physical Review B, 1988, 38, 6543-6551.	1.1	101
116	The Stone Age Revisited: Building a Monolithic Inorganic Lithium-Ion Battery. Advanced Functional Materials, 2012, 22, 2140-2147.	7.8	100
117	Infrared and X-ray studies of hydrogen intercalation in different tungsten trioxides and tungsten trioxide hydrates. Journal of Solid State Electrochemistry, 1997, 1, 199-207.	1.2	99
118	3-D Coordination Polymers Based on the Tetrathiafulvalenetetracarboxylate (TTF-TC) Derivative: Synthesis, Characterization, and Oxidation Issues. Inorganic Chemistry, 2010, 49, 7135-7143.	1.9	98
119	Rationalization of Intercalation Potential and Redox Mechanism for A ₂ Ti ₃ O ₇ (A = Li, Na). Chemistry of Materials, 2013, 25, 4946-4956.	3.2	98
120	Direct Quantification of Anionic Redox over Long Cycling of Li-Rich NMC via Hard X-ray Photoemission Spectroscopy. ACS Energy Letters, 2018, 3, 2721-2728.	8.8	97
121	Upper critical fields of high-T _c superconducting Y _{2-x} Ba _x CuO _{4-y} . Physical Review B, 1987, 35, 7249-7251.	1.1	95
122	Superconductivity at 90 K in a multiphase oxide of Y-Ba-Cu. Physical Review B, 1987, 35, 7115-7118.	1.1	95
123	Hall-effect anomaly in the high-T _c copper-based perovskites. Physical Review B, 1989, 39, 7324-7327.	1.1	95
124	Dual Stabilization and Sacrificial Effect of Na ₂ CO ₃ for Increasing Capacities of Na-Ion Cells Based on P ₂ -Na _x MO ₂ Electrodes. Chemistry of Materials, 2017, 29, 5948-5956.	3.2	95
125	Bulk and thick films of the superconducting phase YBa ₂ Cu ₃ O _{7-y} made by controlled precipitation and sol-gel processes. Journal of Applied Physics, 1988, 63, 2725-2729.	1.1	94
126	Chain-site versus plane-site Cu substitution in YBa ₂ Cu _{3-x} M _x O ₇ (M=Co,Ni): Hall and thermopower studies. Physical Review B, 1989, 39, 777-780.	1.1	94

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127	Decoupling Cationic/Anionic Redox Processes in a Model Li-Rich Cathode via <i>Operando</i> X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2017, 29, 9714-9724.	3.2	93
128	Properties of mechanically alloyed Mg-Ni-Ti ternary hydrogen storage alloys for Ni-MH batteries. <i>Journal of Power Sources</i> , 2002, 112, 547-556.	4.0	89
129	Analytical detection of soluble polysulphides in a modified Swagelok cell. <i>Electrochemistry Communications</i> , 2011, 13, 117-120.	2.3	89
130	The Structural Stability of P2-Layered Na-Based Electrodes during Anionic Redox. <i>Joule</i> , 2020, 4, 420-434.	11.7	89
131	Structural evolution at the oxidative and reductive limits in the first electrochemical cycle of Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ . <i>Nature Communications</i> , 2020, 11, 1252.	5.8	89
132	Unraveling the mechanical origin of stable solid electrolyte interphase. <i>Joule</i> , 2021, 5, 1860-1872.	11.7	89
133	Photoemission study of the new high-temperature superconductor Bi-Ca-Sr-Cu-O. <i>Physical Review B</i> , 1988, 38, 881-884.	1.1	88
134	Photoemission resonances of the high-temperature superconductor Ba ₂ YCu ₃ O _{7+x} . <i>Physical Review B</i> , 1987, 36, 819-821.	1.1	87
135	Electrochemical Reduction of CO ₂ Mediated by Quinone Derivatives: Implication for Li-CO ₂ Battery. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6546-6554.	1.5	86
136	Magnetic and transport properties of pure and carbon-doped divalent RE hexaboride single crystals. <i>Journal of Applied Physics</i> , 1980, 51, 574-577.	1.1	85
137	Charge Transfer Band Gap as an Indicator of Hysteresis in Li-Disordered Rock Salt Cathodes for Li-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 11452-11464.	6.6	81
138	Design of new electrode materials for Li-ion and Na-ion batteries from the bloedite mineral Na ₂ Mg(SO ₄) ₂ ·4H ₂ O. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2671-2680.	5.2	80
139	LiZnSO ₄ F Made in an Ionic Liquid: A Ceramic Electrolyte Composite for Solid-State Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2526-2531.	7.2	79
140	Cation insertion to break the activity/stability relationship for highly active oxygen evolution reaction catalyst. <i>Nature Communications</i> , 2020, 11, 1378.	5.8	79
141	Far-infrared measurement of the gap of the high-T _c superconductor La _{1.85} Sr _{0.15} CuO _{4-x} . <i>Physical Review B</i> , 1987, 35, 8843-8845.	1.1	78
142	Decomposition of ethylene carbonate on electrodeposited metal thin film anode. <i>Journal of Power Sources</i> , 2010, 195, 2036-2043.	4.0	78
143	Will Sodium Layered Oxides Ever Be Competitive for Sodium Ion Battery Applications?. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3714-A3722.	1.3	78
144	Optimization of Na-Ion Battery Systems Based on Polyanionic or Layered Positive Electrodes and Carbon Anodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, A867-A874.	1.3	77

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145	Operando Monitoring of the Solution-Mediated Discharge and Charge Processes in a Na ⁺ O ₂ Battery Using Liquid-Electrochemical Transmission Electron Microscopy. Nano Letters, 2018, 18, 1280-1289.	4.5	77
146	Effects of oxygen stoichiometry on the electronic structure of YBa ₂ Cu ₃ O _x . Physical Review B, 1987, 36, 3986-3989.	1.1	76
147	Li ₂ Fe(SO ₄) ₂ as a 3.83V positive electrode material. Electrochemistry Communications, 2012, 21, 77-80.	2.3	76
148	Magnetic versus nonmagnetic ion substitution effects on T _c in the La-Sr-Cu-O and Nd-Ce-Cu-O systems. Physical Review B, 1990, 42, 218-222.	1.1	75
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