

Jeff Dahn

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567
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48,787
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589
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53,585
ext. citations

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#	Paper	IF	Citations
567	Mechanisms for Lithium Insertion in Carbonaceous Materials. <i>Science</i> , 1995 , 270, 590-593	33.3	1664
566	Electrochemical and In Situ X-Ray Diffraction Studies of Lithium Intercalation in Li_xCoO_2 . <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2091-2097	3.9	1288
565	Electrochemical and In Situ X-Ray Diffraction Studies of the Reaction of Lithium with Tin Oxide Composites. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2045-2052	3.9	1232
564	High Capacity Anode Materials for Rechargeable Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 1271	3.9	1111
563	Studies of Lithium Intercalation into Carbons Using Nonaqueous Electrochemical Cells. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 2009-2013	3.9	1051
562	Colossal Reversible Volume Changes in Lithium Alloys. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, A137		961
561	Synthesis and Electrochemistry of $\text{LiNi}_x\text{Mn}_{2-x}\text{O}_4$. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 205-213	3.9	931
560	The Mechanisms of Lithium and Sodium Insertion in Carbon Materials. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A803	3.9	920
559	In Situ XRD and Electrochemical Study of the Reaction of Lithium with Amorphous Silicon. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A838	3.9	882
558	Understanding the Anomalous Capacity of $\text{Li}/\text{Li}[\text{Ni}_x\text{Li}_{(1/3-x/3)}\text{Mn}_{(2/3-x/3)}]\text{O}_2$ Cells Using In Situ X-Ray Diffraction and Electrochemical Studies. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A815	3.9	850
557	Layered Cathode Materials $\text{Li}[\text{Ni}_x\text{Li}_{(1/3-x/3)}\text{Mn}_{(2/3-x/3)}]\text{O}_2$ for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, A191		780
556	Synthesis, Structure, and Electrochemical Behavior of $\text{Li}[\text{Ni}_x\text{Li}_{(1/3-x/3)}\text{Mn}_{(2/3-x/3)}]\text{O}_2$. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A778	3.9	767
555	Phase diagram of Li_xC_6 . <i>Physical Review B</i> , 1991 , 44, 9170-9177	3.3	684
554	An In Situ X-Ray Diffraction Study of the Reaction of Li with Crystalline Si. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A156	3.9	668
553	Key Factors Controlling the Reversibility of the Reaction of Lithium with SnO_2 and Sn_2BPO_6 Glass. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2943-2948	3.9	541
552	Mechanism of lithium insertion in hard carbons prepared by pyrolysis of epoxy resins. <i>Carbon</i> , 1996 , 34, 193-200	10.4	525
551	Layered $\text{Li}[\text{Ni}_x\text{Co}_{(1-x)}\text{Mn}_x]\text{O}_2$ Cathode Materials for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, A200		502

550	Rechargeable LiNiO ₂ / Carbon Cells. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 2207-2211	3.9	489
549	Sodium Carboxymethyl Cellulose. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, A17		486
548	In Situ X-Ray Diffraction Study of P2-Na _{2/3} [Ni _{1/3} Mn _{2/3}]O ₂ . <i>Journal of the Electrochemical Society</i> , 2001 , 148, A1225	3.9	477
547	Reaction of Li with Alloy Thin Films Studied by In Situ AFM. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1457	3.9	464
546	Alloy Design for Lithium-Ion Battery Anodes. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A849	3.9	392
545	Accelerating Rate Calorimetry Study on the Thermal Stability of Lithium Intercalated Graphite in Electrolyte. I. Experimental. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2068-2077	3.9	386
544	Mechanically Alloyed Sn-Fe(-C) Powders as Anode Materials for Li-Ion Batteries: I. The Sn ₂ Fe - C System. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 405-413	3.9	350
543	Methods to obtain excellent capacity retention in LiCoO ₂ cycled to 4.5 V. <i>Electrochimica Acta</i> , 2004 , 49, 1079-1090	6.7	332
542	A comparison of the electrode/electrolyte reaction at elevated temperatures for various Li-ion battery cathodes. <i>Journal of Power Sources</i> , 2002 , 108, 8-14	8.9	331
541	Long cycle life and dendrite-free lithium morphology in anode-free lithium pouch cells enabled by a dual-salt liquid electrolyte. <i>Nature Energy</i> , 2019 , 4, 683-689	62.3	329
540	Structure and Electrochemistry of Li[Ni _x Co _{1-x} Mn _x]O ₂ (0 ≤ x/2). <i>Journal of the Electrochemical Society</i> , 2002 , 149, A1332	3.9	329
539	Study of the Failure Mechanisms of LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ Cathode Material for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1401-A1408	3.9	298
538	On the Aggregation of Tin in SnO Composite Glasses Caused by the Reversible Reaction with Lithium. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 59-68	3.9	291
537	Thermal Model of Cylindrical and Prismatic Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A755	3.9	283
536	Precision Measurements of the Coulombic Efficiency of Lithium-Ion Batteries and of Electrode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A196	3.9	254
535	Lithium Insertion in High Capacity Carbonaceous Materials. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 2581-2590	3.9	254
534	Synthesis and Characterization of Li _{1+x} Mn _{2-3x} O ₄ for Li-Ion Battery Applications. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 100-114	3.9	250
533	Lithium Insertion in Carbons Containing Nanodispersed Silicon. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 326-332	3.9	241

532	Ab initio calculation of the lithium-tin voltage profile. <i>Physical Review B</i> , 1998 , 58, 15583-15588	3.3	233
531	Thermal degradation of the support in carbon-supported platinum electrocatalysts for PEM fuel cells. <i>Carbon</i> , 2005 , 43, 179-188	10.4	232
530	Ex Situ and In Situ Stability Studies of PEMFC Catalysts. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2309	3.9	229
529	Predicting and Extending the Lifetime of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1451-A1456	3.9	220
528	ARC studies of the thermal stability of three different cathode materials: LiCoO ₂ ; Li[Ni _{0.1} Co _{0.8} Mn _{0.1}]O ₂ ; and LiFePO ₄ , in LiPF ₆ and LiBoB EC/DEC electrolytes. <i>Electrochemistry Communications</i> , 2004 , 6, 39-43	5.1	210
527	An In Situ Small-Angle X-Ray Scattering Study of Sodium Insertion into a Nanoporous Carbon Anode Material within an Operating Electrochemical Cell. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 4428	3.9	208
526	Interpreting High Precision Coulometry Results on Li-ion Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1136	3.9	205
525	The Reaction of Charged Cathodes with Nonaqueous Solvents and Electrolytes: I. Li[_{sub} 0.5]CoO[_{sub} 2]. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A1205	3.9	203
524	Staging Phase Transitions in Li[_{sub} x]CoO[_{sub} 2]. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A1604	3.9	199
523	Structure and electrochemistry of Li Mn Ni ₁₀ 2. <i>Solid State Ionics</i> , 1992 , 57, 311-318	3.3	198
522	A Guide to Li-Ion Coin-Cell Electrode Making for Academic Researchers. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A51	3.9	197
521	Comparison of Single Crystal and Polycrystalline LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ Positive Electrode Materials for High Voltage Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1534-A1544	3.9	187
520	A High Precision Coulometry Study of the SEI Growth in Li/Graphite Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A447	3.9	186
519	In-Situ Detection of Lithium Plating Using High Precision Coulometry. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A959-A964	3.9	183
518	Study of Irreversible Capacities for Li Insertion in Hard and Graphitic Carbons. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 1195-1201	3.9	179
517	Lithium Insertion in Hydrogen-Containing Carbonaceous Materials. <i>Chemistry of Materials</i> , 1996 , 8, 389-398	3.3	174
516	Mechanically Alloyed Sn-Fe(-C) Powders as Anode Materials for Li-Ion Batteries: III. Sn ₂ Fe : SnFe ₃ C Active/Inactive Composites. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 423-427	3.9	171
515	Hysteresis during Lithium Insertion in Hydrogen-Containing Carbons. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 2137-2145	3.9	171

- 514 Lack of Cation Clustering in $\text{Li}[\text{Ni}_x\text{Li}_{1/3-2x/3}\text{Mn}_{2/3-x/3}]\text{O}_2$ (0 Chemistry of Materials, **2003**, 15, 3214-3220) 6 170
- 513 The Electrochemical Reaction of Li with Amorphous Si-Sn Alloys. *Journal of the Electrochemical Society*, **2003**, 150, A149 3.9 167
- 512 The Falling cards model for the structure of microporous carbons. *Carbon*, **1997**, 35, 825-830 10.4 166
- 511 The reactivity of delithiated $\text{Li}(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})\text{O}_2$, $\text{Li}(\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05})\text{O}_2$ or LiCoO_2 with non-aqueous electrolyte. *Electrochemistry Communications*, **2007**, 9, 2534-2540 5.1 166
- 510 In Situ X-Ray Study of the Electrochemical Reaction of Li with $\text{Li-Cu}_6\text{Sn}_5$. *Journal of the Electrochemical Society*, **2000**, 147, 1658 3.9 164
- 509 Is Cobalt Needed in Ni-Rich Positive Electrode Materials for Lithium Ion Batteries?. *Journal of the Electrochemical Society*, **2019**, 166, A429-A439 3.9 163
- 508 First Principles Model of Amorphous Silicon Lithiation. *Journal of the Electrochemical Society*, **2009**, 156, A454 3.9 162
- 507 A Wide Range of Testing Results on an Excellent Lithium-Ion Cell Chemistry to be used as Benchmarks for New Battery Technologies. *Journal of the Electrochemical Society*, **2019**, 166, A3031-A3044 3.9 160
- 506 Accelerating rate calorimetry studies of the reactions between ionic liquids and charged lithium ion battery electrode materials. *Electrochimica Acta*, **2007**, 52, 6346-6352 6.7 160
- 505 Lithium-Ion Cells with Aqueous Electrolytes. *Journal of the Electrochemical Society*, **1995**, 142, 1742-1746) 3.9 160
- 504 NaCrO_2 is a Fundamentally Safe Positive Electrode Material for Sodium-Ion Batteries with Liquid Electrolytes. *Electrochemical and Solid-State Letters*, **2012**, 15, A1 158
- 503 Lithium polyacrylate as a binder for tin/cobalt/carbon negative electrodes in lithium-ion batteries. *Electrochimica Acta*, **2010**, 55, 2991-2995 6.7 155
- 502 Economical Sputtering System To Produce Large-Size Composition-Spread Libraries Having Linear and Orthogonal Stoichiometry Variations. *Chemistry of Materials*, **2002**, 14, 3519-3523 9.6 155
- 501 Conductivity of electrolytes for rechargeable lithium batteries. *Journal of Power Sources*, **1991**, 35, 59-82) 3.9 155
- 500 Structure and Electrochemistry of Layered $\text{Li}[\text{Cr}_x\text{Li}_{(1/3-x)}\text{Mn}_{(2/3-x)}]\text{O}_2$. *Journal of the Electrochemical Society*, **2002**, 149, A1454 3.9 154
- 499 Lithium Intercalation from Aqueous Solutions. *Journal of the Electrochemical Society*, **1994**, 141, 2310-2316) 3.9 153
- 498 Combinatorial Study of $\text{Sn}_{1-x}\text{Co}_x$ (0. *Journal of the Electrochemical Society*, **2006**, 153, A361 3.9 152
- 497 Mechanically Alloyed Sn-Fe(-C) Powders as Anode Materials for Li-Ion Batteries: II. The Sn-Fe System. *Journal of the Electrochemical Society*, **1999**, 146, 414-422 3.9 151

496	Analysis of the Growth Mechanism of Coprecipitated Spherical and Dense Nickel, Manganese, and Cobalt-Containing Hydroxides in the Presence of Aqueous Ammonia. <i>Chemistry of Materials</i> , 2009 , 21, 1500-1503	9.6	146
495	First principles study of LiBi crystalline phases: Charge transfer, electronic structure, and lattice vibrations. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 25-36	5.7	143
494	Layered Li-Mn-Oxide with the O2 Structure: A Cathode Material for Li-Ion Cells Which Does Not Convert to Spinel. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3560-3565	3.9	143
493	Pyrolyzed Polysiloxanes for Use as Anode Materials in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2410-2416	3.9	141
492	Synthesis and Electrochemical Studies of LiMnO ₂ Prepared at Low Temperatures. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 3396-3401	3.9	141
491	The Effect of Boron Substitution in Carbon on the Intercalation of Lithium in Li _x (B _z C _{1-z}) ₆ . <i>Journal of the Electrochemical Society</i> , 1994 , 141, 907-912	3.9	140
490	The Reactions of Li _{0.5} CoO ₂ with Nonaqueous Solvents at Elevated Temperatures. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A912	3.9	138
489	Dramatic Effect of Oxidation on Lithium Insertion in Carbons Made from Epoxy Resins. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3668-3677	3.9	138
488	Optimizing Pyrolysis of Sugar Carbons for Use as Anode Materials in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3046-3052	3.9	135
487	Crystal structure of Li _x Ni _{2-x} O ₂ and a lattice-gas model for the order-disorder transition. <i>Physical Review B</i> , 1992 , 46, 3236-3246	3.3	135
486	User-Friendly Differential Voltage Analysis Freeware for the Analysis of Degradation Mechanisms in Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1405-A1409	3.9	132
485	Chemical Overcharge and Overdischarge Protection for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A59		132
484	An Apparatus for the Study of In Situ Gas Evolution in Li-Ion Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1548-A1554	3.9	129
483	Accelerating Rate Calorimetry Study on the Thermal Stability of Lithium Intercalated Graphite in Electrolyte. II. Modeling the Results and Predicting Differential Scanning Calorimeter Curves. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2078-2084	3.9	129
482	Tin-based materials as negative electrodes for Li-ion batteries: Combinatorial approaches and mechanical methods. <i>International Journal of Energy Research</i> , 2010 , 34, 535-555	4.5	127
481	Comparison of the Reactivity of Various Carbon Electrode Materials with Electrolyte at Elevated Temperature. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3596-3602	3.9	126
480	Updating the Structure and Electrochemistry of Li _x NiO ₂ for 0 ≤ x ≤ 1. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2985-A2993	3.9	122
479	A High Precision Study of the Coulombic Efficiency of Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, A177		119

478	The Use of Elevated Temperature Storage Experiments to Learn about Parasitic Reactions in Wound LiCoO ₂ /Graphite Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1194	3.9	118
477	Diagnosing and correcting anode-free cell failure via electrolyte and morphological analysis. <i>Nature Energy</i> , 2020 , 5, 693-702	62.3	118
476	Comparative thermal stability of carbon intercalation anodes and lithium metal anodes for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 1995 , 54, 240-245	8.9	117
475	The Impact of Electrolyte Additives and Upper Cut-off Voltage on the Formation of a Rocksalt Surface Layer in LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ Electrodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A655-A665	3.9	116
474	Synthesis of Single Crystal LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ with Enhanced Electrochemical Performance for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1038-A1045	3.9	116
473	An Unavoidable Challenge for Ni-Rich Positive Electrode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 7574-7583	9.6	116
472	Understanding Anomalous Behavior in Coulombic Efficiency Measurements on Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A278-A283	3.9	115
471	Study of Electrolyte Additives Using Electrochemical Impedance Spectroscopy on Symmetric Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A117-A124	3.9	113
470	Correlation Between Lithium Intercalation Capacity and Microstructure in Hard Carbons. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3482-3491	3.9	112
469	Effects of solvents and salts on the thermal stability of LiC ₆ . <i>Electrochimica Acta</i> , 2004 , 49, 4599-4604	6.7	111
468	In Situ X-ray Diffraction Study of Layered LiNi _{1-x} Mn _x O Oxides: Effect of Particle Size and Structural Stability of Core-Shell Materials. <i>Chemistry of Materials</i> , 2016 , 28, 162-171	9.6	109
467	Improving Precision and Accuracy in Coulombic Efficiency Measurements of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A521-A527	3.9	109
466	Layered T ₂ -, O ₆ -, O ₂ -, and P ₂ -Type A _{2/3} [M ₁ ²⁺ 1/3M ₄ ²⁺ 2/3]O ₂ Bronzes, A = Li, Na; M ₁ = Ni, Mg; M = Mn, Ti. <i>Chemistry of Materials</i> , 2000 , 12, 2257-2267	9.6	109
465	The Reaction of Lithium with Sn-Mn-C Intermetallics Prepared by Mechanical Alloying. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 3237	3.9	108
464	Effect of Sulfate Electrolyte Additives on LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /Graphite Pouch Cell Lifetime: Correlation between XPS Surface Studies and Electrochemical Test Results. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29608-29622	3.8	107
463	Studies of the Effect of Varying Vinylene Carbonate (VC) Content in Lithium Ion Cells on Cycling Performance and Cell Impedance. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1668-A1674	3.9	107
462	High-Capacity Carbons Prepared from Phenolic Resin for Anodes of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L211-L214	3.9	107
461	Studies of Aromatic Redox Shuttle Additives for LiFePO ₄ -Based Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2390	3.9	106

460	Phase Diagram of LiMnO ₂ Spinel in Air. <i>Chemistry of Materials</i> , 1999 , 11, 3065-3079	9.6	106
459	Effect of turbostratic disorder in graphitic carbon hosts on the intercalation of lithium. <i>Physical Review B</i> , 1995 , 51, 734-741	3.3	106
458	A Study of the Physical Properties of Li-Ion Battery Electrolytes Containing Esters. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A21-A30	3.9	104
457	Tin-Transition Metal-Carbon Systems for Lithium-Ion Battery Negative Electrodes. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A597	3.9	104
456	Exploring the Impact of Mechanical Pressure on the Performance of Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1291-A1299	3.9	103
455	Survey of Gas Expansion in Li-Ion NMC Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A796-A802	3.9	103
454	Dielectric Constants for Quantum Chemistry and Li-Ion Batteries: Solvent Blends of Ethylene Carbonate and Ethyl Methyl Carbonate. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22322-22330	3.8	103
453	A Mössbauer effect investigation of the Li ₂ Sn system. <i>Journal of Alloys and Compounds</i> , 1999 , 289, 135-142	5.7	103
452	A small angle X-ray scattering study of carbons made from pyrolyzed sugar. <i>Carbon</i> , 1996 , 34, 499-503	10.4	103
451	Structure-refinement program for disordered carbons. <i>Journal of Applied Crystallography</i> , 1993 , 26, 827-836	3.36	100
450	Magnetization dynamics of the ferrimagnet CoGd near the compensation of magnetization and angular momentum. <i>Physical Review B</i> , 2006 , 74,	3.3	98
449	Superlattice Ordering of Mn, Ni, and Co in Layered Alkali Transition Metal Oxides with P2, P3, and O3 Structures. <i>Chemistry of Materials</i> , 2000 , 12, 3583-3590	9.6	97
448	Effect of Heat Treatment on Si Electrodes Using Polyvinylidene Fluoride Binder. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A234	3.9	96
447	Evaluation of Effects of Additives in Wound Li-Ion Cells Through High Precision Coulometry. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A255	3.9	95
446	Oxygen reduction activity of Pt and PtMnCo electrocatalysts sputtered on nano-structured thin film support. <i>Electrochimica Acta</i> , 2007 , 53, 688-694	6.7	94
445	Phenothiazine Molecules. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A288	3.9	94
444	Combinatorial Study of Tin-Transition Metal Alloys as Negative Electrodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1998	3.9	94
443	Comparison of mechanically alloyed and sputtered tin-cobalt-carbon as an anode material for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2008 , 10, 25-31	5.1	93

442	A Systematic Study of Electrolyte Additives in Li[Ni _{1/3} Mn _{1/3} Co _{1/3}]O ₂ (NMC)/Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1818-A1827	3.9	92
441	Comparison of the Thermal Stability of Lithiated Graphite in LiBOB EC/DEC and in LiPF ₆ EC/DEC. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A180		92
440	Studies of the Capacity Fade Mechanisms of LiCoO ₂ /Si-Alloy: Graphite Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1146-A1156	3.9	92
439	A Guide to Ethylene Carbonate-Free Electrolyte Making for Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A5008-A5018	3.9	91
438	Synthesis, Characterization, and Thermal Stability of LiNi _{1/3} Mn _{1/3} Co _{1/3} MgO ₂ , LiNi _{1/3} Mn _{1/3} Co _{1/3} MgO ₂ , and LiNi _{1/3} Mn _{1/3} Co _{1/3} MgO ₂ . <i>Chemistry of Materials</i> , 2010 , 22, 1164-1172	9.6	91
437	Introducing Symmetric Li-Ion Cells as a Tool to Study Cell Degradation Mechanisms. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1417	3.9	90
436	High Capacity Li-Rich Positive Electrode Materials with Reduced First-Cycle Irreversible Capacity Loss. <i>Chemistry of Materials</i> , 2015 , 27, 757-767	9.6	89
435	Behavior of Nitrogen-Substituted Carbon (N z C 1 \bar{x}) in Li / Li (N z C 1 \bar{x}) 6 Cells. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 900-907	3.9	89
434	Electrolyte Design for Fast-Charging Li-Ion Batteries. <i>Trends in Chemistry</i> , 2020 , 2, 354-366	14.8	88
433	Reduction of the Irreversible Capacity in Hard-Carbon Anode Materials Prepared from Sucrose for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 1977-1981	3.9	88
432	In Situ Detection of Lithium Plating on Graphite Electrodes by Electrochemical Calorimetry. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A588-A594	3.9	86
431	On the Reduction of Lithium Insertion Capacity in Hard-Carbon Anode Materials with Increasing Heat-Treatment Temperature. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 2252-2257	3.9	85
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429	Test of Reaction Kinetics Using Both Differential Scanning and Accelerating Rate Calorimetries As Applied to the Reaction of Li _x CoO ₂ in Non-aqueous Electrolyte. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4430-4439	2.8	84
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