

# Jeff Dahn

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

567  
papers

48,787  
citations

106  
h-index

199  
g-index

589  
ext. papers

53,585  
ext. citations

5.3  
avg, IF

7.99  
L-index

#	Paper	IF	Citations
567	Correlating the mechanical strength of positive electrode material particles to their capacity retention. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100714	6.1	3
566	In Situ Imaging of Electrode Thickness Growth and Electrolyte Depletion in Single-Crystal vs Polycrystalline LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>z</sub> O <sub>2</sub> /Graphite Pouch Cells using Multi-Scale Computed Tomography. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 020501	3.9	0
565	Impact of Graphite Materials on the Lifetime of NMC811/Graphite Pouch Cells: Part II. Long-Term Cycling, Stack Pressure Growth, Isothermal Microcalorimetry, and Lifetime Projection. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 010501	3.9	0
564	Mechanism of Action of the Tungsten Dopant in LiNiO <sub>2</sub> Positive Electrode Materials. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103067	21.8	6
563	A Baseline Kinetic Study of Co-Free Layered Li <sub>1+x</sub> (Ni <sub>0.5</sub> Mn <sub>0.5</sub> ) <sub>1-x</sub> O <sub>2</sub> Positive Electrode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 110502	3.9	1
562	Impact of Graphite Materials on the Lifetime of NMC811/Graphite Pouch Cells: Part I. Material Properties, ARC Safety Tests, Gas Generation, and Room Temperature Cycling. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 110543	3.9	1
561	Increasing Stack Energy Density Without Lifetime Penalty by Increasing Electrode Loading in Single Crystal Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> /Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 100545	3.9	
560	Synthesis of Co-Free Ni-Rich Single Crystal Positive Electrode Materials for Lithium Ion Batteries: Part I. Two-Step Lithiation Method for Al- or Mg-Doped LiNiO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 040531	3.9	12
559	Synthesis of Co-Free Ni-Rich Single Crystal Positive Electrode Materials for Lithium Ion Batteries: Part II. One-Step Lithiation Method of Mg-Doped LiNiO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 050506	3.9	7
558	Investigating Parasitic Reactions in Anode-Free Li Metal Cells with Isothermal Microcalorimetry. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 060527	3.9	3
557	Optimizing Electrolyte Additive Loadings in NMC532/Graphite Cells: Vinylene Carbonate and Ethylene Sulfate. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 010514	3.9	9
556	KOH Based Method for the Determination of Oxygen Content in Ball Milled SiO <sub>x</sub> Material. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 010515	3.9	
555	Optimizing Cycling Conditions for Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 020515	3.9	33
554	Using Lithium-ion Differential Thermal Analysis to Probe Tortuosity of Negative Electrodes in Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 020501	3.9	1
553	Study of Electrolyte and Electrode Composition Changes vs Time in Aged Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 020532	3.9	5
552	Factors that Affect Capacity in the Low Voltage Kinetic Hindrance Region of Ni-Rich Positive Electrode Materials and Diffusion Measurements from a Reinvented Approach. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 070503	3.9	6
551	Designing Positive/Positive and Negative/Negative Symmetric Cells with Electrodes Operating in the Same Potential Ranges as Electrodes in a Full Li-Ion Cell. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 080537	3.9	0

550	Voltage-Dependent Li Kinetics Leads to Charge-Discharge Asymmetry in Co-Free Li-Rich Li <sub>1.12</sub> Ni <sub>0.44</sub> Mn <sub>0.44</sub> O <sub>2</sub> under Conditions without Transition Metal Migration. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090564	3.9	1
549	An Evaluation of a Systematic Series of Cobalt-Free Ni-Rich Core-Shell Materials as Positive Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090555	3.9	2
548	Correlating Cation Mixing with Li Kinetics: Electrochemical and Li Diffusion Measurements on Li-Deficient LiNiO <sub>2</sub> and Li-Excess LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090533	3.9	3
547	A Systematic Study of Electrolyte Additives in Single Crystal and Bimodal LiNi <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> O <sub>2</sub> /Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090503	3.9	12
546	A comparative study on the reactivity of charged Ni-rich and Ni-poor positive electrodes with electrolyte at elevated temperatures using accelerating rate calorimetry. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 523-530	12	11
545	Ultrafast Inside-Out NMR Assessment of Rechargeable Cells. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 322-326	5.6	7
544	Measuring Parasitic Heat Flow in LiFePO <sub>4</sub> /Graphite Cells Using Isothermal Microcalorimetry. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 120526	3.9	0
543	Impact of Functionalization and Co-Additives on Dioxazolone Electrolyte Additives. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 080540	3.9	3
542	Ester-Based Electrolytes for Fast Charging of Energy Dense Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 12269-12280	3.8	23
541	Effects of Graphite Heat-Treatment Temperature on Single-Crystal Li[Ni <sub>5</sub> Mn <sub>3</sub> Co <sub>2</sub> ]O <sub>2</sub> /Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 080543	3.9	9
540	Cycling Lithium Metal on Graphite to Form Hybrid Lithium-Ion/Lithium Metal Cells. <i>Joule</i> , <b>2020</b> , 4, 1296-1310	13.10	33
539	In Situ XRD Studies During Synthesis of Single-Crystal LiNiO <sub>2</sub> , LiNi <sub>0.975</sub> Mg <sub>0.025</sub> O <sub>2</sub> , and LiNi <sub>0.95</sub> Al <sub>0.05</sub> O <sub>2</sub> Cathode Materials. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 100501	3.9	17
538	Synthesis and Evaluation of Difluorophosphate Salt Electrolyte Additives for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 100538	3.9	2
537	A Low-Cost Instrument for Dry Particle Fusion Coating of Advanced Electrode Material Particles at the Laboratory Scale. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 110509	3.9	10
536	Impact of Aluminum Added to Ni-Based Positive Electrode Materials by Dry Particle Fusion. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6097-6104	9.6	5
535	A Study of Vinylene Carbonate and Prop-1-ene-1,3 Sultone Electrolyte Additives Using Polycrystalline Li[Ni <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> ]O <sub>2</sub> in Positive/Positive Symmetric Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 110527	3.9	2
534	Electrolyte Design for Fast-Charging Li-Ion Batteries. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 354-366	14.8	88
533	Effects of Fluorine Doping on Nickel-Rich Positive Electrode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 080518	3.9	7

532	Microstructural Observations of Single Crystal Positive Electrode Materials Before and After Long Term Cycling by Cross-section Scanning Electron Microscopy. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 020512	3.9	60
531	Studies of the SEI layers in Li(Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> )O <sub>2</sub> /Artificial Graphite Cells after Formation and after Cycling. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 120507	3.9	6
530	Impact of Al Doping and Surface Coating on the Electrochemical Performances of Li-Rich Mn-Rich Li <sub>1.11</sub> Ni <sub>0.33</sub> Mn <sub>0.56</sub> O <sub>2</sub> Positive Electrode Material. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 120531	3.9	3
529	Cobalt-Free Core-Shell Structure with High Specific Capacity and Long Cycle Life as an Alternative to Li[Ni <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> ]O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 120533	3.9	8
528	Study of the Reactions between Ni-Rich Positive Electrode Materials and Aqueous Solutions and their Relation to the Failure of Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 130521	3.9	36
527	Scanning Micro X-ray Fluorescence (SM-XRF) as an Effective Tool in Quantifying Fe Dissolution in LiFePO <sub>4</sub> Cells: Towards a Mechanistic Understanding of Fe Dissolution. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 130539	3.9	6
526	Effect of Duty Cycle on the Lifetime of Single Crystal LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> /Graphite Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 130529	3.9	2
525	Performance and Degradation of LiFePO <sub>4</sub> /Graphite Cells: The Impact of Water Contamination and an Evaluation of Common Electrolyte Additives. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 130543	3.9	9
524	Accelerated Failure in Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> /Graphite Pouch Cells Due to Low LiPF <sub>6</sub> Concentration and Extended Time at High Voltage. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 130541	3.9	4
523	Impact of Cr Doping on the Voltage Fade of Li-Rich Mn-Rich Li <sub>1.11</sub> Ni <sub>0.33</sub> Mn <sub>0.56</sub> O <sub>2</sub> and Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Positive Electrode Materials. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 160545	3.9	3
522	A one-pot method for the synthesis of 3-(hetero-)aryl-1,4,2-dioxazol-5-ones. <i>Canadian Journal of Chemistry</i> , <b>2020</b> , 98, 158-163	0.9	1
521	Ultrasonic Scanning to Observe Wetting and Unwetting in Li-Ion Pouch Cells. <i>Joule</i> , <b>2020</b> , 4, 2017-2029	27.8	54
520	Diagnosing and correcting anode-free cell failure via electrolyte and morphological analysis. <i>Nature Energy</i> , <b>2020</b> , 5, 693-702	62.3	118
519	Operando decoding of chemical and thermal events in commercial Na(Li)-ion cells via optical sensors. <i>Nature Energy</i> , <b>2020</b> , 5, 674-683	62.3	58
518	A Comparison of the Performance of Different Morphologies of LiNi <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> O <sub>2</sub> Using Isothermal Microcalorimetry, Ultra-High Precision Coulometry, and Long-Term Cycling. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 060530	3.9	20
517	Impact of Shell Composition, Thickness and Heating Temperature on the Performance of Nickel-Rich Cobalt-Free Core-Shell Materials. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 160556	3.9	5
516	A Wide Range of Testing Results on an Excellent Lithium-Ion Cell Chemistry to be used as Benchmarks for New Battery Technologies. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3031-A3044	3.9	160
515	User-Friendly Freeware for Determining the Concentration of Electrolyte Components in Lithium-Ion Cells Using Fourier Transform Infrared Spectroscopy, Beer's Law, and Machine Learning. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3102-A3108	3.9	1

514	Temperature Dependent EIS Studies Separating Charge Transfer Impedance from Contact Impedance in Lithium-Ion Symmetric Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3272-A3279	3.9	33
513	Surface Area of Lithium-Metal Electrodes Measured by Argon Adsorption. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3250-A3253	3.9	9
512	A Guide to Full Coin Cell Making for Academic Researchers. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A329-A333	3.9	52
511	Resistance Growth in Lithium-Ion Pouch Cells with LiNi <sub>0.80</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> Positive Electrodes and Proposed Mechanism for Voltage Dependent Charge-Transfer Resistance. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1779-A1784	3.9	30
510	Synthesis of Single Crystal LiNi <sub>0.88</sub> Co <sub>0.09</sub> Al <sub>0.03</sub> O <sub>2</sub> with a Two-Step Lithiation Method. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1956-A1963	3.9	67
509	Analysis of Thousands of Electrochemical Impedance Spectra of Lithium-Ion Cells through a Machine Learning Inverse Model. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1611-A1622	3.9	16
508	Exploring the Impact of Mechanical Pressure on the Performance of Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1291-A1299	3.9	103
507	New Chemical Insights into the Beneficial Role of AlO Cathode Coatings in Lithium-ion Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14095-14100	9.5	68
506	Editors' Choice Hindering Rollover Failure of Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> /Graphite Pouch Cells during Long-Term Cycling. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A711-A724	3.9	50
505	A Tale of Two Additives: Effects of Glutaric and Citraconic Anhydrides on Lithium-Ion Cell Performance. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A793-A801	3.9	11
504	The Formation of Layered Double Hydroxide Phases in the Coprecipitation Syntheses of [Ni <sub>0.80</sub> Co <sub>0.15</sub> ](OH) <sub>2</sub> /0.95Al <sub>x</sub> (OH) <sub>2</sub> (anion) <sub>n</sub> (x = 0.2, n = 1, 2). <i>ChemEngineering</i> , <b>2019</b> , 3, 38	2.6	8
503	Is Cobalt Needed in Ni-Rich Positive Electrode Materials for Lithium Ion Batteries?. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A429-A439	3.9	163
502	An Unavoidable Challenge for Ni-Rich Positive Electrode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7574-7583	9.6	116
501	Impact of Dopants (Al, Mg, Mn, Co) on the Reactivity of Li <sub>x</sub> NiO <sub>2</sub> with the Electrolyte of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A2826-A2833	3.9	27
500	1,2,6-Oxadithiane 2,2,6,6-tetraoxide as an Advanced Electrolyte Additive for Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> /Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A2665-A2672	3.9	14
499	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> , <b>2019</b> , 4, 683-689	62.3	329
498	Electrolyte Development for High-Performance Li-Ion Cells: Additives, Solvents, and Agreement with a Generalized Molecular Model. <i>Electrochemical Society Interface</i> , <b>2019</b> , 28, 49-53	3.6	8
497	Hot Formation for Improved Low Temperature Cycling of Anode-Free Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3342-A3347	3.9	48

496	A Joint DFT and Experimental Study of an Imidazolidinone Additive in Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3707-A3715	3.9	9
495	Investigating the Effects of Magnesium Doping in Various Ni-Rich Positive Electrode Materials for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A4025-A4033	3.9	32
494	Cobalt-Free Nickel-Rich Positive Electrode Materials with a Core-Shell Structure. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10150-10160	9.6	34
493	Structural Evolution and High-Voltage Structural Stability of Li(NixMnyCoz)O2 Electrodes. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 376-386	9.6	41
492	Operando Pressure Measurements Reveal Solid Electrolyte Interphase Growth to Rank Li-Ion Cell Performance. <i>Joule</i> , <b>2019</b> , 3, 745-761	27.8	78
491	Development of Electrolytes for Single Crystal NMC532/Artificial Graphite Cells with Long Lifetime. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A626-A635	3.9	45
490	Role of CuO in improving NH and SO capture on nanoporous FeO sorbents. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 521, 206-215	9.3	6
489	Methyl Acetate as a Co-Solvent in NMC532/Graphite Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1027-A1037	3.9	23
488	Synthesis of Single Crystal LiNi0.6Mn0.2Co0.2O2 with Enhanced Electrochemical Performance for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1038-A1045	3.9	116
487	Explicit Conversion between Different Equivalent Circuit Models for Electrochemical Impedance Analysis of Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A228-A234	3.9	16
486	A New Method for Determining the Concentration of Electrolyte Components in Lithium-Ion Cells, Using Fourier Transform Infrared Spectroscopy and Machine Learning. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A256-A262	3.9	25
485	Effects of the LiPO2F2 additive on unwanted lithium plating in lithium-ion cells. <i>Electrochimica Acta</i> , <b>2018</b> , 263, 237-248	6.7	50
484	A Study of the Physical Properties of Li-Ion Battery Electrolytes Containing Esters. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A21-A30	3.9	104
483	Some Physical Properties of Ethylene Carbonate-Free Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A126-A131	3.9	25
482	The reactivity of charged positive Li1-n[NixMnyCoz]O2 electrodes with electrolyte at elevated temperatures using accelerating rate calorimetry. <i>Journal of Power Sources</i> , <b>2018</b> , 390, 78-86	8.9	33
481	LiPO2F2 as an Electrolyte Additive in Li[Ni0.5Mn0.3Co0.2]O2/Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A891-A899	3.9	54
480	The Effect of Methyl Acetate, Ethylene Sulfate, and Carbonate Blends on the Parasitic Heat Flow of NMC532/Graphite Lithium Ion Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A867-A875	3.9	10
479	A Study of the Transport Properties of Ethylene Carbonate-Free Li Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A705-A716	3.9	48



478	A study of highly conductive ester co-solvents in Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> /Graphite pouch cells. <i>Electrochimica Acta</i> , <b>2018</b> , 270, 215-223	6.7	25
477	Screening Bifunctional Pt Based NSTF Catalysts for Durability with the Rotating Disk Electrode: The Effect of Ir and Ru. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F854-F862	3.9	5
476	Exploring Classes of Co-Solvents for Fast-Charging Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2365-A2373	3.9	45
475	Dependence of Cell Failure on Cut-Off Voltage Ranges and Observation of Kinetic Hindrance in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2682-A2695	3.9	60
474	Combinations of LiPO <sub>2</sub> F <sub>2</sub> and Other Electrolyte Additives in Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> /Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1718-A1724	3.9	31
473	MnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Nanocomposite Sorbent for Gas Capture. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6674-6682	5.6	2
472	Impact of a Titanium-Based Surface Coating Applied to Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> ]O <sub>2</sub> on Lithium-Ion Cell Performance. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 7052-7064	6.1	26
471	Impact of the Synthesis Conditions on the Performance of LiNi <sub>x</sub> Co <sub>y</sub> Al <sub>z</sub> O <sub>2</sub> with High Ni and Low Co Content. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3544-A3557	3.9	35
470	Structural, Electrochemical, and Thermal Properties of Nickel-Rich LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>z</sub> O <sub>2</sub> Materials. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8852-8860	9.6	55
469	Use of Asymmetric Average Charge- and Average Discharge- Voltages as an Indicator of the Onset of Unwanted Lithium Deposition in Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3595-A3601	3.9	30
468	Determining Parasitic Reaction Enthalpies in Lithium-Ion Cells Using Isothermal Microcalorimetry. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3449-A3458	3.9	7
467	Updating the Structure and Electrochemistry of Li <sub>x</sub> NiO <sub>2</sub> for 0 < x < 1. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2985-A2993	3.9	122
466	Combinatorial Methods for Improving Lithium Metal Cycling Efficiency. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3000-A3013	3.9	18
465	Measuring the Coulombic Efficiency of Lithium Metal Cycling in Anode-Free Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3321-A3325	3.9	49
464	A Critical Evaluation of the Advanced Electrolyte Model. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3350-A3359	3.9	23
463	Effect of Choices of Positive Electrode Material, Electrolyte, Upper Cut-Off Voltage and Testing Temperature on the Life Time of Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3195-A3204	3.9	12
462	Quantifying Changes to the Electrolyte and Negative Electrode in Aged NMC532/Graphite Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2732-A2740	3.9	42
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457	Studies of Si-Fe-C Electrode Materials Prepared by Combinatorial Sputter Deposition. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A498-A507	3.9	6
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455	Measuring the Parasitic Heat Flow of Lithium Ion Pouch Cells Containing EC-Free Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A567-A573	3.9	16
454	Effects of Electrolyte Additives and Solvents on Unwanted Lithium Plating in Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1173-A1183	3.9	65
453	Improving Linear Alkyl Carbonate Electrolytes with Electrolyte Additives. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1239-A1250	3.9	16
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450	The Effect of Different Li(Ni <sub>1-x-y</sub> Mn <sub>x</sub> Co <sub>y</sub> )O <sub>2</sub> Positive Electrode Materials and Coatings on Parasitic Heat Flow as Measured by Isothermal Microcalorimetry, Ultra-High Precision Coulometry and Long Term Cycling. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1203-A1212	3.9	24
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447	Operando X-ray Diffraction Study of Polycrystalline and Single-Crystal Li <sub>x</sub> Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2992-A2999	3.9	52
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440	<sup>19</sup> F and <sup>31</sup> P Solid-State NMR Characterization of a Pyridine Pentafluorophosphate-Derived Solid-Electrolyte Interphase. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2171-A2175	3.9	8
439	Quantifying, Understanding and Evaluating the Effects of Gas Consumption in Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3518-A3528	3.9	43
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428	Impact of electrolyte solvent and additive choices on high voltage Li-ion pouch cells. <i>Journal of Power Sources</i> , <b>2016</b> , 329, 387-397	8.9	25
427	A Comparative Study of Pyridine Containing Lewis Acid-Base Adducts as Additives for Li[Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> ]/graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2124-A2130	3.9	5
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416	Fluorinated electrolyte for 4.5V Li(Ni <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> )O <sub>2</sub> /graphite Li-ion cells. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 340-350	8.9	52
415	The effect of electrolyte additives on both LaPO <sub>4</sub> -coated Li(Ni <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> )O <sub>2</sub> and uncoated Li(Ni <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> )O <sub>2</sub> in Li-ion pouch cells. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 516-525	8.9	17
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232	Structural and electrochemical studies of (Sn <sub>x</sub> Co <sub>1-x</sub> ) <sub>60</sub> C <sub>40</sub> alloys prepared by mechanical attriting. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 4534-4539	6.7	30
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137	ARC studies of the thermal stability of three different cathode materials: LiCoO <sub>2</sub> ; Li[Ni <sub>0.1</sub> Co <sub>0.8</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> ; and LiFePO <sub>4</sub> , in LiPF <sub>6</sub> and LiBOB EC/DEC electrolytes. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 39-43	5.1	210



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18	Structure-refinement program for disordered carbons. <i>Journal of Applied Crystallography</i> , <b>1993</b> , 26, 827-836	3.6	100
17	Dependence of the Intercalation of Li in $\text{WO}_3$ on the Preparation of the $\text{WO}_3$ Host. <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 2406-2409	3.9	8
16	Evidence for quantum confinement in porous silicon from soft x-ray absorption. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 3013-3015	3.4	61
15	Crystal structure of $\text{Li}_x\text{Ni}_{2-x}\text{O}_2$ and a lattice-gas model for the order-disorder transition. <i>Physical Review B</i> , <b>1992</b> , 46, 3236-3246	3.3	135
14	Electrochemical and In Situ X-Ray Diffraction Studies of Lithium Intercalation in $\text{Li}_x\text{CoO}_2$ . <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 2091-2097	3.9	1288
13	Structure and electrochemistry of $\text{LiMnNi}_2\text{O}_2$ . <i>Solid State Ionics</i> , <b>1992</b> , 57, 311-318	3.3	198
12	Conductivity of electrolytes for rechargeable lithium batteries. <i>Journal of Power Sources</i> , <b>1991</b> , 35, 59-82	2.9	155
11	Rechargeable $\text{LiNiO}_2 / \text{Carbon}$ Cells. <i>Journal of the Electrochemical Society</i> , <b>1991</b> , 138, 2207-2211	3.9	489

10	Phase diagram of $\text{Li}_x\text{C}_6$ . <i>Physical Review B</i> , <b>1991</b> , 44, 9170-9177	3.3	684
9	Studies of Lithium Intercalation into Carbons Using Nonaqueous Electrochemical Cells. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 2009-2013	3.9	1051
8	In Situ Study of Electrolyte Reactions in Secondary Lithium Cells. <i>Journal of the Electrochemical Society</i> , <b>1987</b> , 134, 516-519	3.9	11
7	Entropy of intercalation compounds. II. Calorimetry of electrochemical cells of the Chevrel compound $\text{Li}_x\text{Mo}_6\text{Se}_8$ for $0 \leq x \leq 4$ . <i>Journal of Physics C: Solid State Physics</i> , <b>1986</b> , 19, 5135-5148		22
6	Entropy of the intercalation compound $\text{Li}_x\text{Mo}_6\text{Se}_8$ from calorimetry of electrochemical cells. <i>Physical Review B</i> , <b>1985</b> , 32, 3316-3318	3.3	33
5	In situ X-ray diffraction experiments on lithium intercalation compounds. <i>Canadian Journal of Physics</i> , <b>1982</b> , 60, 307-313	1.1	80
4	Cycling Performance of NMC811 Anode-Free Pouch Cells with 65 Different Electrolyte Formulations. <i>Journal of the Electrochemical Society</i> ,	3.9	2
3	Tungsten Infused Grain Boundaries Enabling Universal Performance Enhancement of Co-Free Ni-Rich Cathode Materials. <i>Journal of the Electrochemical Society</i> ,	3.9	4
2	Different Positive Electrodes for Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> ,	3.9	4
1	Preventing Interdiffusion during Synthesis of Ni-Rich CoreShell Cathode Materials. <i>ACS Energy Letters</i> , 2189-2195	20.1	3