

Doron Aurbach

List of Publications by Year in descending order

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335
papers

47,101
citations

2963

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346
all docs

346
docs citations

346
times ranked

28184
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges in the development of advanced Li-ion batteries: a review. Energy and Environmental Science, 2011, 4, 3243.	15.6	5,644
2	Promise and reality of post-lithium-ion batteries with high energy densities. Nature Reviews Materials, 2016, 1, .	23.3	3,562
3	Review of selected electrodeâ€“solution interactions which determine the performance of Li and Li ion batteries. Journal of Power Sources, 2000, 89, 206-218.	4.0	1,863
4	A short review of failure mechanisms of lithium metal and lithiated graphite anodes in liquid electrolyte solutions. Solid State Ionics, 2002, 148, 405-416.	1.3	1,480
5	Mg rechargeable batteries: an on-going challenge. Energy and Environmental Science, 2013, 6, 2265.	15.6	1,188
6	Carbon-based composite materials for supercapacitor electrodes: a review. Journal of Materials Chemistry A, 2017, 5, 12653-12672.	5.2	1,152
7	Advances in understanding mechanisms underpinning lithiumâ€“air batteries. Nature Energy, 2016, 1, .	19.8	1,050
8	A review of advanced and practical lithium battery materials. Journal of Materials Chemistry, 2011, 21, 9938.	6.7	952
9	Sulfurâ€“impregnated Activated Carbon Fiber Cloth as a Binderâ€“Free Cathode for Rechargeable Liâ€“S Batteries. Advanced Materials, 2011, 23, 5641-5644.	11.1	846
10	Current status and future directions of multivalent metal-ion batteries. Nature Energy, 2020, 5, 646-656.	19.8	798
11	Effect of Fluoroethylene Carbonate (FEC) on the Performance and Surface Chemistry of Si-Nanowire Li-Ion Battery Anodes. Langmuir, 2012, 28, 965-976.	1.6	664
12	Review on Liâ€“Sulfur Battery Systems: an Integral Perspective. Advanced Energy Materials, 2015, 5, 1500212.	10.2	641
13	Review on electrodeâ€“electrolyte solution interactions, related to cathode materials for Li-ion batteries. Journal of Power Sources, 2007, 165, 491-499.	4.0	619
14	Lithiumâ€“Oxygen Batteries and Related Systems: Potential, Status, and Future. Chemical Reviews, 2020, 120, 6626-6683.	23.0	593
15	Reviewâ€“Recent Advances and Remaining Challenges for Lithium Ion Battery Cathodes. Journal of the Electrochemical Society, 2017, 164, A6220-A6228.	1.3	581
16	Review on Challenges and Recent Advances in the Electrochemical Performance of High Capacity Liâ€“ and Mnâ€“Rich Cathode Materials for Liâ€“Ion Batteries. Advanced Energy Materials, 2018, 8, 1702397.	10.2	475
17	From Surface ZrO ₂ Coating to Bulk Zr Doping by High Temperature Annealing of Nickelâ€“Rich Lithiated Oxides and Their Enhanced Electrochemical Performance in Lithium Ion Batteries. Advanced Energy Materials, 2018, 8, 1701682.	10.2	443
18	The Correlation Between the Surface Chemistry and the Performance of Liâ€“Carbon Intercalation Anodes for Rechargeable â€“Rockingâ€“Chairâ€“TM Type Batteries. Journal of the Electrochemical Society, 1994, 141, 603-611.	1.3	428

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19	Electrolyte Solutions with a Wide Electrochemical Window for Rechargeable Magnesium Batteries. <i>Journal of the Electrochemical Society</i> , 2008, 155, A103.	1.3	417
20	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. <i>Advanced Energy Materials</i> , 2021, 11, 2101126.	10.2	407
21	The Study of Electrolyte Solutions Based on Ethylene and Diethyl Carbonates for Rechargeable Li Batteries: II. Graphite Electrodes. <i>Journal of the Electrochemical Society</i> , 1995, 142, 2882-2890.	1.3	405
22	The High Performance of Crystal Water Containing Manganese Birnessite Cathodes for Magnesium Batteries. <i>Nano Letters</i> , 2015, 15, 4071-4079.	4.5	400
23	Failure and Stabilization Mechanisms of Graphite Electrodes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2195-2206.	1.2	399
24	Novel, electrolyte solutions comprising fully inorganic salts with high anodic stability for rechargeable magnesium batteries. <i>Chemical Communications</i> , 2014, 50, 243-245.	2.2	396
25	Very Stable Lithium Metal Stripping/Plating at a High Rate and High Areal Capacity in Fluoroethylene Carbonate-Based Organic Electrolyte Solution. <i>ACS Energy Letters</i> , 2017, 2, 1321-1326.	8.8	372
26	Al Doping for Mitigating the Capacity Fading and Voltage Decay of Layered Li and Mn-Rich Cathodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502398.	10.2	360
27	Charge-transfer materials for electrochemical water desalination, ion separation and the recovery of elements. <i>Nature Reviews Materials</i> , 2020, 5, 517-538.	23.3	360
28	Fluoroethylene Carbonate as an Important Component for the Formation of an Effective Solid Electrolyte Interphase on Anodes and Cathodes for Advanced Li-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 1337-1345.	8.8	350
29	Structural and Electrochemical Aspects of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Materials Doped by Various Cations. <i>ACS Energy Letters</i> , 2019, 4, 508-516.	8.8	348
30	Electrochemical and Spectroscopic Analysis of Mg^{2+} Intercalation into Thin Film Electrodes of Layered Oxides: V_2O_5 and MoO_3 . <i>Langmuir</i> , 2013, 29, 10964-10972.	1.6	346
31	Sonochemical Synthesis of SnO_2 Nanoparticles and Their Preliminary Study as Li Insertion Electrodes. <i>Chemistry of Materials</i> , 2000, 12, 2557-2566.	3.2	331
32	Ion Sieving Effects in the Electrical Double Layer of Porous Carbon Electrodes: Estimating Effective Ion Size in Electrolytic Solutions. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6880-6887.	1.2	323
33	The behaviour of lithium electrodes in propylene and ethylene carbonate: The major factors that influence Li cycling efficiency. <i>Journal of Electroanalytical Chemistry</i> , 1992, 339, 451-471.	1.9	317
34	Micromorphological Studies of Lithium Electrodes in Alkyl Carbonate Solutions Using in Situ Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 12282-12291.	1.2	309
35	NaCrO_2 cathode for high-rate sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 2019-2026.	15.6	307
36	Evaluation of $(\text{CF}_3\text{SO}_2)_2\text{N}^+$ (TFSI) Based Electrolyte Solutions for Mg Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A7118-A7128.	1.3	301

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37	Stabilizing nickel-rich layered cathode materials by a high-charge cation doping strategy: zirconium-doped $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$. Journal of Materials Chemistry A, 2016, 4, 16073-16084.	5.2	295
38	Nonaqueous magnesium electrochemistry and its application in secondary batteries. Chemical Record, 2003, 3, 61-73.	2.9	289
39	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartz-Crystal Admittance and In Situ Electronic Conductance Measurements. Advanced Energy Materials, 2015, 5, 1400815.	10.2	283
40	The challenge of developing rechargeable magnesium batteries. MRS Bulletin, 2014, 39, 453-460.	1.7	282
41	Anode-Electrolyte Interfaces in Secondary Magnesium Batteries. Joule, 2019, 3, 27-52.	11.7	275
42	Nanoparticles of SnO Produced by Sonochemistry as Anode Materials for Rechargeable Lithium Batteries. Chemistry of Materials, 2002, 14, 4155-4163.	3.2	265
43	Structural Analysis of Electrolyte Solutions for Rechargeable Mg Batteries by Stereoscopic Means and DFT Calculations. Journal of the American Chemical Society, 2011, 133, 6270-6278.	6.6	264
44	Redox Mediators for LiO_2 Batteries: Status and Perspectives. Advanced Materials, 2018, 30, 1704162.	11.1	258
45	X-ray Photoelectron Spectroscopy Studies of Lithium Surfaces Prepared in Several Important Electrolyte Solutions. A Comparison with Previous Studies by Fourier Transform Infrared Spectroscopy. Langmuir, 1996, 12, 3991-4007.	1.6	239
46	Electrolyte Solutions for Rechargeable Magnesium Batteries Based on Organomagnesium Chloroaluminate Complexes. Journal of the Electrochemical Society, 2002, 149, A115.	1.3	236
47	Application of a quartz-crystal microbalance to measure ionic fluxes in microporous carbons for energy storage. Nature Materials, 2009, 8, 872-875.	13.3	235
48	Oxidation of Dimethyl Sulfoxide Solutions by Electrochemical Reduction of Oxygen. Journal of Physical Chemistry Letters, 2013, 4, 3115-3119.	2.1	229
49	LiO_2 cells with LiBr as an electrolyte and a redox mediator. Energy and Environmental Science, 2016, 9, 2334-2345.	15.6	229
50	Long term stability of capacitive de-ionization processes for water desalination: The challenge of positive electrodes corrosion. Electrochimica Acta, 2013, 106, 91-100.	2.6	228
51	New Horizons for Conventional Lithium Ion Battery Technology. Journal of Physical Chemistry Letters, 2014, 5, 3313-3324.	2.1	224
52	Studies of cycling behavior, ageing, and interfacial reactions of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ and carbon electrodes for lithium-ion 5-V cells. Journal of Power Sources, 2006, 162, 780-789.	4.0	209
53	The dependence of the performance of Li-C intercalation anodes for Li-ion secondary batteries on the electrolyte solution composition. Electrochimica Acta, 1994, 39, 2559-2569.	2.6	206
54	In Situ Conductivity, Impedance Spectroscopy, and Ex Situ Raman Spectra of Amorphous Silicon during the Insertion/Extraction of Lithium. Journal of Physical Chemistry C, 2007, 111, 11437-11444.	1.5	206

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55	The Use of Redox Mediators for Enhancing Utilization of Li_2S Cathodes for Advanced Li ⁺ S Battery Systems. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 915-918.	2.1	206
56	Origin of Structural Degradation During Cycling and Low Thermal Stability of Ni-Rich Layered Transition Metal-Based Electrode Materials. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22628-22636.	1.5	199
57	Layered Cathode Materials for Lithium-Ion Batteries: Review of Computational Studies on $\text{LiNi}_{1-x}\text{Co}_x\text{Mn}_y\text{O}_2$ and $\text{LiNi}_{1-x}\text{Co}_x\text{Al}_y\text{O}_2$. <i>Chemistry of Materials</i> , 2020, 32, 915-952.	3.2	196
58	Lithium Polyacrylate (LiPAA) as an Advanced Binder and a Passivating Agent for High-Voltage Li ⁺ Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501008.	10.2	190
59	Understanding the behavior of Li ⁺ -oxygen cells containing Lil. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8855-8864.	5.2	187
60	Integrated Materials $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiMn}_{1/3}\text{Ni}_{1/3}\text{Co}_{1/3}\text{O}_2$ ($x=0.3, 0.5, 0.7$) Synthesized. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1121.	1.3	185
61	X-ray Photoelectron Spectroscopy Study of Surface Films Formed on Li Electrodes Freshly Prepared in Alkyl Carbonate Solutions. <i>Langmuir</i> , 1999, 15, 3334-3342.	1.6	174
62	Critical Role of Crystal Water for a Layered Cathode Material in Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 3721-3725.	3.2	174
63	On the Stability of LiFePO_4 Olivine Cathodes under Various Conditions (Electrolyte Solutions,) Tj ETQq1 1 0.784314 rgBT /Over 2.2 166	2.2	166
64	Fluoroethylene Carbonate as an Important Component in Electrolyte Solutions for High-Voltage Lithium Batteries: Role of Surface Chemistry on the Cathode. <i>Langmuir</i> , 2014, 30, 7414-7424.	1.6	166
65	The electrochemistry of activated carbonaceous materials: past, present, and future. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1563-1578.	1.2	161
66	Impedance Spectroscopy of Li Electrodes. 4. A General Simple Model of the Li ⁺ -Solution Interphase in Polar Aprotic Systems. <i>The Journal of Physical Chemistry</i> , 1996, 100, 3089-3101.	2.9	156
67	A brief review: Past, present and future of lithium ion batteries. <i>Russian Journal of Electrochemistry</i> , 2016, 52, 1095-1121.	0.3	156
68	“Petal Effect” on Surfaces Based on Lycopodium: High-Stick Surfaces Demonstrating High Apparent Contact Angles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5568-5572.	1.5	152
69	Alloy Anode Materials for Rechargeable Mg Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000697.	10.2	149
70	Review “Recent Advances and Remaining Challenges for Lithium Ion Battery Cathodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6341-A6348.	1.3	143
71	A comparative study of electrodes comprising nanometric and submicron particles of $\text{LiNi}_0.50\text{Mn}_0.50\text{O}_2$, $\text{LiNi}_0.33\text{Mn}_0.33\text{Co}_0.33\text{O}_2$, and $\text{LiNi}_0.40\text{Mn}_0.40\text{Co}_0.20\text{O}_2$ layered compounds. <i>Journal of Power Sources</i> , 2009, 189, 248-255.	4.0	141
72	On the Challenge of Electrolyte Solutions for Li ⁺ Air Batteries: Monitoring Oxygen Reduction and Related Reactions in Polyether Solutions by Spectroscopy and EQCM. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 127-131.	2.1	139

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73	High-Temperature Treatment of Li-Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. <i>Advanced Energy Materials</i> , 2017, 7, 1700708.	10.2	139
74	Comparison between Na-Ion and Li-Ion Cells: Understanding the Critical Role of the Cathodes Stability and the Anodes Pretreatment on the Cells Behavior. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1867-1875.	4.0	138
75	Review—Development of Advanced Rechargeable Batteries: A Continuous Challenge in the Choice of Suitable Electrolyte Solutions. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2424-A2438.	1.3	137
76	Exceptionally Active and Stable Spinel Nickel Manganese Oxide Electrocatalysts for Urea Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12176-12185.	4.0	130
77	Catalytic Behavior of Lithium Nitrate in Li-O ₂ Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16590-16600.	4.0	127
78	Thermodynamic and kinetic studies of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ as a positive electrode material for Li-ion batteries using first principles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6799-6812.	1.3	126
79	On the Oxidation State of Manganese Ions in Li-Ion Battery Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2017, 139, 1738-1741.	6.6	124
80	Studies of Aluminum-Doped LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ : Electrochemical Behavior, Aging, Structural Transformations, and Thermal Characteristics. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1014-A1027.	1.3	121
81	Enhanced Charge Efficiency in Capacitive Deionization Achieved by Surface-Treated Electrodes and by Means of a Third Electrode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19856-19863.	1.5	120
82	Mechanistic Role of Li ⁺ Dissociation Level in Aprotic Li-O ₂ Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5300-5307.	4.0	120
83	Study of the Lithium-Rich Integrated Compound xLi ₂ MnO ₃ ·(1-x)LiMO ₂ (x around 0.5; M = Mn, Ni, Co; 2:2:1) and Its Electrochemical Activity as Positive Electrode in Lithium Cells. <i>Journal of the Electrochemical Society</i> , 2013, 160, A324-A337.	1.3	119
84	Unraveling the Effects of Al Doping on the Electrochemical Properties of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Using First Principles. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6359-A6365.	1.3	118
85	Li ⁺ Ion Extraction/Insertion of Ni-Rich Li _{1+x} (Ni _y Co _z Mn _w)O _{2-s} (0.005 x 0.03; y/z = 8:1, w ≈ 1) Electrodes: In-Situ XRD and Raman Spectroscopy Studv. <i>ChemElectroChem</i> , 2015, 2, 1479-1486.	1.7	116
86	Comparing the Behavior of Nano- and Microsized Particles of LiMn _{1.5} Ni _{0.5} O ₄ Spinel as Cathode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A682.	1.3	110
87	Metal-Sulfur Batteries: Overview and Research Methods. <i>ACS Energy Letters</i> , 2019, 4, 436-446.	8.8	108
88	Surface Modification of Li-Rich Mn-Based Layered Oxide Cathodes: Challenges, Materials, Methods, and Characterization. <i>Advanced Energy Materials</i> , 2020, 10, 2002506.	10.2	108
89	Horizons for Li-Ion Batteries Relevant to Electro-Mobility: High-Specific-Energy Cathodes and Chemically Active Separators. <i>Advanced Materials</i> , 2018, 30, e1801348.	11.1	105
90	Direct Assessment of Nanoconfined Water in 2D Ti ₃ C ₂ Electrode Interspaces by a Surface Acoustic Technique. <i>Journal of the American Chemical Society</i> , 2018, 140, 8910-8917.	6.6	102

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91	Electrochemical Properties of Sulfurized-Polyacrylonitrile Cathode for Lithium-Sulfur Batteries: Effect of Polyacrylic Acid Binder and Fluoroethylene Carbonate Additive. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5331-5337.	2.1	101
92	Leaching Chemistry and the Performance of the Mo ₆ S ₈ Cathodes in Rechargeable Mg Batteries. <i>Chemistry of Materials</i> , 2004, 16, 2832-2838.	3.2	100
93	Unique Behavior of Dimethoxyethane (DME)/Mg(N(SO ₂) ₂ CF ₃) ₂ Solutions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19586-19594.	1.5	99
94	Side Reactions in Capacitive Deionization (CDI) Processes: The Role of Oxygen Reduction. <i>Electrochimica Acta</i> , 2016, 220, 285-295.	2.6	99
95	Predicting accurate cathode properties of layered oxide materials using the SCAN meta-GGA density functional. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	99
96	Preparation and Properties of Metal Organic Framework/Activated Carbon Composite Materials. <i>Langmuir</i> , 2016, 32, 4935-4944.	1.6	97
97	Understanding the Role of Minor Molybdenum Doping in LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Electrodes: from Structural and Surface Analyses and Theoretical Modeling to Practical Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29608-29621.	4.0	97
98	Structural and Electrochemical Evidence of Layered to Spinel Phase Transformation of Li and Mn Rich Layered Cathode Materials of the Formulae xLi[Li _{1/3} Mn _{2/3}]O ₂ ·(1-x)LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂	1.3	93
99	Structural Analysis of Magnesium Chloride Complexes in Dimethoxyethane Solutions in the Context of Mg Batteries Research. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24909-24918.	1.5	93
100	In Situ Real-Time Mechanical and Morphological Characterization of Electrodes for Electrochemical Energy Storage and Conversion by Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring. <i>Accounts of Chemical Research</i> , 2018, 51, 69-79.	7.6	92
101	Electrochemical and structural characterization of carbon coated Li _{1.2} Mn _{0.56} Ni _{0.16} Co _{0.08} O ₂ and Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ as cathode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2014, 137, 546-556.	2.6	91
102	Improving Performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials for Lithium-Ion Batteries by Doping with Molybdenum-Ions: Theoretical and Experimental Studies. <i>ACS Applied Energy Materials</i> , 2019, 2, 4521-4534.	2.5	91
103	Structural Analysis of Electrolyte Solutions Comprising Magnesium-Aluminate Chloro-Organic Complexes by Raman Spectroscopy. <i>Organometallics</i> , 2007, 26, 3130-3137.	1.1	89
104	Studies of Li and Mn-Rich Li _x [MnNiCo]O ₂ Electrodes: Electrochemical Performance, Structure, and the Effect of the Aluminum Fluoride Coating. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2220-A2233.	1.3	87
105	On the Surface Chemistry of LiMO ₂ Cathode Materials (M=[MnNi] and [MnNiCo]): Electrochemical, Spectroscopic, and Calorimetric Studies. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1099.	1.3	86
106	Direct Observation of an Anomalous Spinel to Layered Phase Transition Mediated by Crystal Water Intercalation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15094-15099.	7.2	86
107	Assessing the Solvation Numbers of Electrolytic Ions Confined in Carbon Nanopores under Dynamic Charging Conditions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 120-124.	2.1	83
108	Magnesium Deposition and Dissolution Processes in Etheral Grignard Salt Solutions Using Simultaneous EQCM-EIS and In Situ FTIR Spectroscopy. <i>Electrochemical and Solid-State Letters</i> , 1999, 3, 31.	2.2	79

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109	Novel Cathode Materials for Na-ion Batteries Composed of Spoke-Like Nanorods of Na[Ni _{0.61} Co _{0.12} Mn _{0.27}]O ₂ Assembled in Spherical Secondary Particles. <i>Advanced Functional Materials</i> , 2016, 26, 8083-8093.	7.8	78
110	On the Electrochemical Behavior of Aluminum Electrodes in Nonaqueous Electrolyte Solutions of Lithium Salts. <i>Journal of the Electrochemical Society</i> , 2010, 157, A423.	1.3	77
111	In situ hydrodynamic spectroscopy for structure characterization of porous energy storage electrodes. <i>Nature Materials</i> , 2016, 15, 570-575.	13.3	77
112	High-Performance Cells Containing Lithium Metal Anodes, LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ (NCM 622) Cathodes, and Fluoroethylene Carbonate-Based Electrolyte Solution with Practical Loading. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19773-19782.	4.0	77
113	Cu ₂ Mo ₆ S ₈ Chevreil Phase, A Promising Cathode Material for New Rechargeable Mg Batteries: A Mechanically Induced Chemical Reaction. <i>Chemistry of Materials</i> , 2002, 14, 2767-2773.	3.2	76
114	In Situ AFM Imaging of Surface Phenomena on Composite Graphite Electrodes during Lithium Insertion. <i>Langmuir</i> , 2002, 18, 9000-9009.	1.6	76
115	Micropump based on liquid marbles. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	76
116	Capacitive deionization for wastewater treatment: Opportunities and challenges. <i>Chemosphere</i> , 2020, 241, 125003.	4.2	75
117	Developing Ion Electroadsorption Stereoselectivity, by Pore Size Adjustment with Chemical Vapor Deposition onto Active Carbon Fiber Electrodes. Case of Ca ²⁺ /Na ⁺ Separation in Water Capacitive Desalination. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7385-7389.	1.5	74
118	The use of in situ techniques in R&D of Li and Mg rechargeable batteries. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 877-890.	1.2	74
119	Alkyl Group Transmetalation Reactions in Electrolytic Solutions Studied by Multinuclear NMR. <i>Organometallics</i> , 2004, 23, 3826-3831.	1.1	72
120	Effect of Fe in suppressing the discharge voltage decay of high capacity Li-rich cathodes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2781-2792.	1.2	71
121	In Situ Electrochemical Quartz Crystal Admittance Methodology for Tracking Compositional and Mechanical Changes in Porous Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14876-14889.	1.5	70
122	In situ real-time gravimetric and viscoelastic probing of surface films formation on lithium batteries electrodes. <i>Nature Communications</i> , 2017, 8, 1389.	5.8	69
123	High Energy Density Rechargeable Batteries Based on Li Metal Anodes. The Role of Unique Surface Chemistry Developed in Solutions Containing Fluorinated Organic Co-solvents. <i>Journal of the American Chemical Society</i> , 2021, 143, 21161-21176.	6.6	69
124	Single-Wall Carbon Nanotube Doping in Lead-Acid Batteries: A New Horizon. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3634-3643.	4.0	68
125	In Situ Porous Structure Characterization of Electrodes for Energy Storage and Conversion by EQCM-D: a Review. <i>Electrochimica Acta</i> , 2017, 232, 271-284.	2.6	68
126	Study of Cathode Materials for Lithium-Ion Batteries: Recent Progress and New Challenges. <i>Inorganics</i> , 2017, 5, 32.	1.2	68

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127	Composite non-stick droplets and their actuation with electric field. Applied Physics Letters, 2012, 100, .	1.5	65
128	Understanding the influence of Mg doping for the stabilization of capacity and higher discharge voltage of Li- and Mn-rich cathodes for Li-ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 6142-6152.	1.3	65
129	Towards promising electrochemical technology for load leveling applications: extending cycle life of lead acid batteries by the use of carbon nano-tubes (CNTs). Energy and Environmental Science, 2013, 6, 587-594.	15.6	63
130	Reviewâ€”A Comparative Evaluation of Redox Mediators for Li-O ₂ Batteries: A Critical Review. Journal of the Electrochemical Society, 2018, 165, A2274-A2293.	1.3	63
131	Can Anions Be Inserted into MXene?. Journal of the American Chemical Society, 2021, 143, 12552-12559.	6.6	63
132	On the challenge of large energy storage by electrochemical devices. Electrochimica Acta, 2020, 354, 136771.	2.6	62
133	Optimized Bicompartiment Two Solution Cells for Effective and Stable Operation of Liâ€”O ₂ Batteries. Advanced Energy Materials, 2017, 7, 1701232.	10.2	61
134	The Effect of ZnO and MgO Coatings by a Sono-Chemical Method, on the Stability of LiMn _{1.5} Ni _{0.5} O ₄ as a Cathode Material for 5 V Li-Ion Batteries. Journal of the Electrochemical Society, 2012, 159, A228-A237.	1.3	59
135	The Study of Surface Films Formed on Lithium and Noble Metal Electrodes in Polar Aprotic Systems By the Use of In Situ Fourier Transform Infrared Spectroscopy. Journal of the Electrochemical Society, 1993, 140, L1-L4.	1.3	57
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