Chong S Yoon

List of Publications by Year
in descending order

264 papers	22,065 citations	6613 79 h-index	9103 144 g-index
270 all docs	270 docs citations	270 times ranked	13050 citing authors

#	Article	IF	Citations
1	Comparison of the structural and electrochemical properties of layered Li[NixCoyMnz]O2 (xÂ=Â1/3, 0.5,) Tj ETQq1 1 0.784314 rgBT /O 121-130.	7.8	1,694
2	Capacity Fading of Ni-Rich Li[Ni_{<i>x</i>}Co_{<i>y</i>}Mn_{1â€“<i>x</i>â€“<i>y</i>}]O₂ (0.6) Tj ETQq0 0 0 rgBT /Ov Degradation?. Chemistry of Materials, 2018, 30, 1155-1163.	6.7	1,060
3	Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. ACS Energy Letters, 2017, 2, 196-223.	17.4	1,033
4	Nanostructured high-energy cathode materials for advanced lithium batteries. Nature Materials, 2012, 11, 942-947.	27.5	921
5	Comparative Study of LiNi0.5Mn1.5O4-Î´ and LiNi0.5Mn1.5O4 Cathodes Having Two Crystallographic Structures:â€‰ Fd3Ì„m and P4332. Chemistry of Materials, 2004, 16, 906-914.	6.7	687
6	The Role of AlF₃ Coatings in Improving Electrochemical Cycling of Liâ€Enriched Nickelâ€Manganese Oxide Electrodes for Liâ€Ion Batteries. Advanced Materials, 2012, 24, 1192-1196.	21.0	629
7	Microscale spherical carbon-coated Li4Ti5O12 as ultra high power anode material for lithium batteries. Energy and Environmental Science, 2011, 4, 1345.	30.8	433
8	Anatase Titania Nanorods as an Intercalation Anode Material for Rechargeable Sodium Batteries. Nano Letters, 2014, 14, 416-422.	9.1	422
9	Improved Cycling Stability of Li[Ni_{0.90}Co_{0.05}Mn_{0.05}]O₂ Through Microstructure Modification by Boron Doping for Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1801202.	19.5	336
10	Critical Role of pH Evolution of Electrolyte in the Reaction Mechanism for Rechargeable Zinc Batteries. ChemSusChem, 2016, 9, 2948-2956.	6.8	332
11	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. Energy and Environmental Science, 2018, 11, 1271-1279.	30.8	322
12	Highâ€Performance Carbonâ€LiMnPO₄ Nanocomposite Cathode for Lithium Batteries. Advanced Functional Materials, 2010, 20, 3260-3265.	14.9	298
13	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. ACS Energy Letters, 2019, 4, 2995-3001.	17.4	297
14	Structural Stability of LiNiO₂ Cycled above 4.2 V. ACS Energy Letters, 2017, 2, 1150-1155.	17.4	292
15	Degradation Mechanism of Ni-Enriched NCA Cathode for Lithium Batteries: Are Microcracks Really Critical?. ACS Energy Letters, 2019, 4, 1394-1400.	17.4	290
16	Advanced Na[Ni_{0.25}Fe_{0.5}Mn_{0.25}]O₂/Câ€“Fe₃O₄ Sodium-Ion Batteries Using EMS Electrolyte for Energy Storage. Nano Letters, 2014, 14, 1620-1626.	9.1	283
17	Heuristic solution for achieving long-term cycle stability for Ni-rich layered cathodes at full depth of discharge. Nature Energy, 2020, 5, 860-869.	39.5	278
18	Electrochemically-induced reversible transition from the tunneled to layered polymorphs of manganese dioxide. Scientific Reports, 2014, 4, 6066.	3.3	275

#	Article	IF	Citations
19	High-energy-density lithium-ion battery using a carbon-nanotubeâ€“Si composite anode and a compositionally graded Li[Ni_{0.85}Co_{0.05}Mn_{0.10}]O₂ cathode. Energy and Environmental Science, 2016, 9, 2152-2158.	30.8	269
20	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. ACS Energy Letters, 2021, 6, 2726-2734.	17.4	258
21	A Novel Cathode Material with a Concentrationâ€Gradient for Highâ€Energy and Safe Lithiumâ€Ion Batteries. Advanced Functional Materials, 2010, 20, 485-491.	14.9	252
22	Improvement of long-term cycling performance of Li[Ni0.8Co0.15Al0.05]O2 by AlF3 coating. Journal of Power Sources, 2013, 234, 201-207.	7.8	237
23	Black anatase titania enabling ultra high cycling rates for rechargeable lithium batteries. Energy and Environmental Science, 2013, 6, 2609.	30.8	221
24	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. ACS Energy Letters, 2019, 4, 576-582.	17.4	217
25	High Electrochemical Performances of Microsphere C-TiO₂ Anode for Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 11295-11301.	8.0	213
26	Synthesis and structural characterization of layered Li[Ni1/3Co1/3Mn1/3]O2 cathode materials by ultrasonic spray pyrolysis method. Electrochimica Acta, 2004, 49, 557-563.	5.2	210
27	Significant Improvement of Electrochemical Performance of AlF[sub 3]-Coated Li[Ni[sub 0.8]Co[sub 0.1]Mn[sub 0.1]]O[sub 2] Cathode Materials. Journal of the Electrochemical Society, 2007, 154, A1005.	2.9	199
28	Extracting maximum capacity from Ni-rich Li[Ni_{0.95}Co_{0.025}Mn_{0.025}]O₂cathodes for high-energy-density lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 4126-4132.	10.3	199
29	High-Energy Ni-Rich Li[Ni_{<i>x</i>}Co_{<i>y</i>}Mn_{1<i>â€“xâ€“y</i>}]O₂ Cathodes via Compositional Partitioning for Next-Generation Electric Vehicles. Chemistry of Materials, 2017, 29, 10436-10445.	6.7	189
30	Synthesis of Nanowire and Hollow LiFePO₄ Cathodes for High-Performance Lithium Batteries. Chemistry of Materials, 2008, 20, 4560-4564.	6.7	176
31	Suppressing detrimental phase transitions <i>via</i> tungsten doping of LiNiO₂ cathode for next-generation lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18580-18588.	10.3	175
32	Microstructureâ€Controlled Niâ€Rich Cathode Material by Microscale Compositional Partition for Nextâ€Generation Electric Vehicles. Advanced Energy Materials, 2019, 9, 1803902.	19.5	175
33	Reducing cobalt from lithium-ion batteries for the electric vehicle era. Energy and Environmental Science, 2021, 14, 844-852.	30.8	174
34	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. Nature Communications, 2021, 12, 6552.	12.8	167
35	A highly stabilized Ni-rich NCA cathode for high-energy lithium-ion batteries. Materials Today, 2020, 36, 73-82.	14.2	163
36	Extending the Battery Life Using an Al-Doped Li[Ni_{0.76}Co_{0.09}Mn_{0.15}]O₂ Cathode with Concentration Gradients for Lithium Ion Batteries. ACS Energy Letters, 2017, 2, 1848-1854.	17.4	162

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37	Self-Passivation of a LiNiO₂ Cathode for a Lithium-Ion Battery through Zr Doping. ACS Energy Letters, 2018, 3, 1634-1639.	17.4	161
38	Cation Ordering of Zr-Doped LiNiO₂ Cathode for Lithium-Ion Batteries. Chemistry of Materials, 2018, 30, 1808-1814.	6.7	160
39	AlF[sub 3]-Coating to Improve High Voltage Cycling Performance of Li[Ni[sub 1âˆ•3]Co[sub 1âˆ•3]Mn[sub 1âˆ•3]]O[sub 2] Cathode Materials for Lithium Secondary Batteries. Journal of the Electrochemical Society, 2007, 154, A168.	2.9	158
40	Nanostructured TiO₂ and Its Application in Lithiumâ€Ion Storage. Advanced Functional Materials, 2011, 21, 3231-3241.	14.9	154
41	Highâ€Capacity Concentration Gradient Li[Ni_{0.865}Co_{0.120}Al_{0.015}]O₂ Cathode for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703612.	19.5	154
42	Degradation Mechanism of Highly Ni-Rich Li[Ni_{<i>x</i>}Co_{<i>y</i>}Mn_{1â€“<i>x</i>â€“<i>y</i>}]O₂ Cathodes with <i>x</i> > 0.9. ACS Applied Materials & Interfaces, 2019, 11, 30936-30942.	8.0	152
43	Improvement of Electrochemical Performances of Li[Ni[sub 0.8]Co[sub 0.1]Mn[sub 0.1]]O[sub 2] Cathode Materials by Fluorine Substitution. Journal of the Electrochemical Society, 2007, 154, A649.	2.9	141
44	Cobaltâ€Free Highâ€Capacity Niâ€Rich Layered Li[Ni_{0.9}Mn_{0.1}]O₂ Cathode. Advanced Energy Materials, 2020, 10, 1903179.	19.5	141
45	Cathode Material with Nanorod Structureâ€"An Application for Advanced High-Energy and Safe Lithium Batteries. Chemistry of Materials, 2013, 25, 2109-2115.	6.7	137
46	Compositionally Graded Cathode Material with Longâ€Term Cycling Stability for Electric Vehicles Application. Advanced Energy Materials, 2016, 6, 1601417.	19.5	137
47	Niâ€Rich Layered Cathode Materials with Electrochemoâ€Mechanically Compliant Microstructures for Allâ€Solidâ€State Li Batteries. Advanced Energy Materials, 2020, 10, 1903360.	19.5	136
48	Improvement of High-Voltage Cycling Behavior of Surface-Modified Li[Ni[sub 1âˆ•3]Co[sub 1âˆ•3]Mn[sub 1âˆ•3]]O[sub 2] Cathodes by Fluorine Substitution for Li-Ion Batteries. Journal of the Electrochemical Society, 2005, 152, A1707.	2.9	133
49	A method of increasing the energy density of layered Ni-rich Li[Ni_{1âˆ'2x}Co_xMn_x]O₂ cathodes (<i>x</i> = 0.05, 0.1,) Tj ETQq1 1 0.784314 rgBT	[illegible]	[illegible]
50	Customizing a Liâ€“metal battery that survives practical operating conditions for electric vehicle applications. Energy and Environmental Science, 2019, 12, 2174-2184.	30.8	130
51	Advanced Concentration Gradient Cathode Material with Twoâ€Slope for Highâ€Energy and Safe Lithium Batteries. Advanced Functional Materials, 2015, 25, 4673-4680.	14.9	127
52	Reviewâ€"High-Capacity Li[Ni₁₋<i>_x</i>Co<i>_x</i>_{/2}Mn<i>_x</i>_{/2}]O<sub>2</sub 162, A2483-A2489.	2.9	127
53	Surface structural change of ZnO-coated LiNi0.5Mn1.5O4 spinel as 5 V cathode materials at elevated temperatures. Electrochimica Acta, 2003, 48, 503-506.	5.2	123
54	High-Energy Density Coreâ€“Shell Structured Li[Ni_{0.95}Co_{0.025}Mn_{0.025}]O₂ Cathode for Lithium-Ion Batteries. Chemistry of Materials, 2017, 29, 5048-5052.	6.7	123

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55	Li[Ni_{0.9}Co_{0.09}W_{0.01}]O₂: A New Type of Layered Oxide Cathode with High Cycling Stability. Advanced Energy Materials, 2019, 9, 1902698.	19.5	121
56	Tungsten doping for stabilization of Li[Ni0.90Co0.05Mn0.05]O2 cathode for Li-ion battery at high voltage. Journal of Power Sources, 2019, 442, 227242.	7.8	118
57	Compositionally and structurally redesigned high-energy Ni-rich layered cathode for next-generation lithium batteries. Materials Today, 2019, 23, 26-36.	14.2	118
58	New Class of Niâ€Rich Cathode Materials Li[Ni<i>_x</i>Co<i>_y</i>B_{1âˆ’}<i>_x</i>_{âˆ’}<i>_y</i>]O<sub>2 for Next Lithium Batteries. Advanced Energy Materials, 2020, 10, 2000495.	19.5	116
59	Mesoporous Anatase TiO₂ with High Surface Area and Controllable Pore Size by F^{âˆ’}-Ion Doping: Applications for High-Power Li-Ion Battery Anode. Journal of Physical Chemistry C, 2009, 113, 21258-21263.	3.1	113
60	Effect of Ti Substitution for Mn on the Structure of LiNi[sub 0.5]Mn[sub 1.5âˆ’x]Ti[sub x]O[sub 4] and Their Electrochemical Properties as Lithium Insertion Material. Journal of the Electrochemical Society, 2004, 151, A1911.	2.9	112
61	Surface-Stabilized Amorphous Germanium Nanoparticles for Lithium-Storage Material. Journal of Physical Chemistry B, 2005, 109, 20719-20723.	2.6	112
62	A comprehensive study of the role of transition metals in O3-type layered Na[Ni_xCo_yMn_z]O₂ (x = 1/3, 0.5, 0.6, and 0.8) cathodes for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 17952-17959.	10.3	110
63	Comparative Study of Ni-Rich Layered Cathodes for Rechargeable Lithium Batteries: Li[Ni_{0.85}Co_{0.11}Al_{0.04}]O₂ and Li[Ni_{0.84}Co_{0.06}Mn_{0.09}Al_{0.01}]O₂ with Two-Step Full Concentration Gradients. ACS Energy Letters, 2016, 1, 283-289.	17.4	110
64	Phase Transitions in Li[sub 1âˆ'Î´]Ni[sub 0.5]Mn[sub 1.5]O[sub 4] during Cycling at 5 V. Electrochemical and Solid-State Letters, 2004, 7, A216.	2.2	109
65	Carbon-coated Li4Ti5O12 nanowires showing high rate capability as an anode material for rechargeable sodium batteries. Nano Energy, 2015, 12, 725-734.	16.0	109
66	A Transmission Electron Microscopy Study of the Electrochemical Process of Lithiumâ€“Oxygen Cells. Nano Letters, 2012, 12, 4333-4335.	9.1	107
67	Resolving the degradation pathways of the O3-type layered oxide cathode surface through the nano-scale aluminum oxide coating for high-energy density sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23671-23680.	10.3	107
68	Optical and Field Emission Properties of Thin Single-Crystalline GaN Nanowires. Journal of Physical Chemistry B, 2005, 109, 11095-11099.	2.6	102
69	Effect of AlF₃Coating on Thermal Behavior of Chemically Delithiated Li_{0.35}[Ni_{1/3}Co_{1/3}Mn_{1/3}]O₂. Journal of Physical Chemistry C, 2010, 114, 4710-4718.	3.1	99
70	Toward High-Safety Potassiumâ€“Sulfur Batteries Using a Potassium Polysulfide Catholyte and Metal-Free Anode. ACS Energy Letters, 2018, 3, 540-541.	17.4	99
71	Characterization of Sputter-Deposited LiCoO₂ Thin Film Grown on NASICON-type Electrolyte for Application in All-Solid-State Rechargeable Lithium Battery. ACS Applied Materials & Interfaces, 2017, 9, 16063-16070.	8.0	98
72	Novel Coreâˆ'Shell-Structured Li[(Ni0.8Co0.2)0.8(Ni0.5Mn0.5)0.2]O2via Coprecipitation as Positive Electrode Material for Lithium Secondary Batteries. Journal of Physical Chemistry B, 2006, 110, 6810-6815.	2.6	97

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73	Synthesis of Nanostructured Li[Ni1/3Co1/3Mn1/3]O2via a Modified Carbonate Process. Chemistry of Materials, 2005, 17, 6-8.	6.7	96
74	Enhanced electrochemical performance of carbonâ€“LiMn1âˆ’Fe PO4 nanocomposite cathode for lithium-ion batteries. Journal of Power Sources, 2011, 196, 6924-6928.	7.8	95
75	High-Energy W-Doped Li[Ni0.95Co0.04Al0.01]O2 Cathodes for Next-Generation Electric Vehicles. Energy Storage Materials, 2020, 33, 399-407.	18.0	88
76	Microstructural Degradation of Niâ€Rich Li[Ni<i>_x</i>Co<i>_y</i>Mn₁<i>_{âˆ’xâˆ’y}</i>]O₂ Cathodes During Accelerated Calendar Aging. Small, 2018, 14, e1803179.	10.0	86
77	Cation ordered Ni-rich layered cathode for ultra-long battery life. Energy and Environmental Science, 2021, 14, 1573-1583.	30.8	83
78	Nanoporous Structured LiFePO[sub 4] with Spherical Microscale Particles Having High Volumetric Capacity for Lithium Batteries. Electrochemical and Solid-State Letters, 2009, 12, A181.	2.2	82
79	Stabilization of Lithium-Metal Batteries Based on the in Situ Formation of a Stable Solid Electrolyte Interphase Layer. ACS Applied Materials & Interfaces, 2018, 10, 17985-17993.	8.0	82
80	Capacity Degradation Mechanism and Cycling Stability Enhancement of AlF₃-Coated Nanorod Gradient Na[Ni_{0.65}Co_{0.08}Mn_{0.27}]O₂ Cathode for Sodium-Ion Batteries. ACS Nano, 2018, 12, 12912-12922.	14.6	82
81	Microstrain Alleviation in High-Energy Ni-Rich NCMA Cathode for Long Battery Life. ACS Energy Letters, 2021, 6, 216-223.	17.4	82
82	Ultrafine-grained Ni-rich layered cathode for advanced Li-ion batteries. Energy and Environmental Science, 2021, 14, 6616-6626.	30.8	82
83	Variation of Electronic Conductivity within Secondary Particles Revealing a Capacity-Fading Mechanism of Layered Ni-Rich Cathode. ACS Energy Letters, 2018, 3, 3002-3007.	17.4	80
84	Low-temperature sintering and microwave dielectric properties of Ba5Nb4O15â€“BaNb2O6 mixtures for LTCC applications. Journal of the European Ceramic Society, 2003, 23, 2597-2601.	5.7	78
85	Novel Cathode Materials for Naâ€Ion Batteries Composed of Spokeâ€Like Nanorods of Na[Ni_{0.61}Co_{0.12}Mn_{0.27}]O₂ Assembled in Spherical Secondary Particles. Advanced Functional Materials, 2016, 26, 8083-8093.	14.9	78
86	Microstructure Engineered Niâ€Rich Layered Cathode for Electric Vehicle Batteries. Advanced Energy Materials, 2021, 11, 2100884.	19.5	76
87	Effect of sulfur and nickel doping on morphology and electrochemical performance of LiNi0.5Mn1.5O4âˆ’xSx spinel material in 3-V region. Journal of Power Sources, 2006, 161, 19-26.	7.8	75
88	Role of AlF[sub 3] Coating on LiCoO[sub 2] Particles during Cycling to Cutoff Voltage above 4.5 V. Journal of the Electrochemical Society, 2009, 156, A1005.	2.9	70
89	High Temperature Performance of Surface-Treated Li[sub 1.1](Ni[sub 0.15]Co[sub 0.1]Mn[sub 0.55])O[sub 1.95] Layered Oxide. Journal of the Electrochemical Society, 2010, 157, A1035.	2.9	69
90	Ordered Mesoporous Carbon Electrodes for Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2013, 5, 13426-13431.	8.0	69

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91	Degradation mechanism of spinel LiAl0.2Mn1.8O4 cathode materials on high temperature cycling. Journal of Materials Chemistry, 2001, 11, 2519-2522.	6.7	66
92	Influence of Temperature on Lithiumâ€“Oxygen Battery Behavior. Nano Letters, 2013, 13, 2971-2975.	9.1	63
93	Nanoconfinement of low-conductivity products in rechargeable sodiumâ€“air batteries. Nano Energy, 2015, 12, 123-130.	16.0	63
94	Microstructure Evolution of Concentration Gradient Li[Ni_{0.75}Co_{0.10}Mn_{0.15}]O₂ Cathode for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1802090.	14.9	62
95	Low-Temperature Synthesis of LixMn0.67Ni0.33O2 (0.2 <x < 0.33) Nanowires with a Hexagonal Layered Structure. Advanced Materials, 2005, 17, 2834-2837.	21.0	57
96	Polyvinylpyrrolidone-assisted synthesis of microscale C-LiFePO4 with high tap density as positive electrode materials for lithium batteries. Electrochimica Acta, 2010, 55, 1193-1199.	5.2	55
97	Synthesis of ultra-thin polypyrrole nanosheets for chemical sensor applications. Polymer, 2011, 52, 652-657.	3.8	53
98	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. NPG Asia Materials, 2016, 8, e270-e270.	7.9	53
99	High-performance Ni-rich Li[Ni_{0.9â€“<i>x</i>}Co_{0.1}Al_{<i>x</i>}]O₂ cathodes <i>via</i> multi-stage microstructural tailoring from hydroxide precursor to the lithiated oxide. Energy and Environmental Science, 2021, 14, 5084-5095.	30.8	47
100	Structural Characterization of Li[Li[sub 0.1]Ni[sub 0.35]Mn[sub 0.55]]O[sub 2] Cathode Material for Lithium Secondary Batteries. Journal of the Electrochemical Society, 2003, 150, A538.	2.9	46
101	High-Energy Cathodes via Precision Microstructure Tailoring for Next-Generation Electric Vehicles. ACS Energy Letters, 2021, 6, 4195-4202.	17.4	44
102	Highâ€Energy Niâ€Rich Cathode Materials for Longâ€Range and Longâ€Life Electric Vehicles. Advanced Energy Materials, 2022, 12, .	19.5	43
103	LiNi[sub 0.5]Mn[sub 1.5]O[sub 4] Showing Reversible Phase Transition on 3 V Region. Electrochemical and Solid-State Letters, 2005, 8, A163.	2.2	41
104	A Strategy for the Formation of Goldâ€“Palladium Supra-Nanoparticles from Gold Nanoparticles of Various Shapes and Their Application to High-Performance H₂O₂ Sensing. Journal of Physical Chemistry C, 2015, 119, 26164-26170.	3.1	40
105	Understanding on the structural and electrochemical performance of orthorhombic sodium manganese oxides. Journal of Materials Chemistry A, 2019, 7, 202-211.	10.3	39
106	Formation of gold nanoparticles embedded in a polyimide film for nanofloating gate memory. Applied Physics Letters, 2007, 90, 123118.	3.3	38
107	Improvement of High Voltage Cycling Performances of Li[Ni[sub 1/3]Co[sub 1/3]Mn[sub 1/3]]O[sub 2] at 55Â°C by a (NH[sub 4])[sub 3]AlF[sub 6] Coating. Electrochemical and Solid-State Letters, 2009, 12, A163.	2.2	38
108	New Insights Related to Rechargeable Lithium Batteries: Li Metal Anodes, Ni Rich LiNi_xCo_yMn_zO₂ Cathodes and Beyond Them. Journal of the Electrochemical Society, 2019, 166, A5265-A5274.	2.9	38

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109	Tungsten Oxide/Zirconia as a Functional Polysulfide Mediator for High-Performance Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2020, 5, 3168-3175.	17.4	38
110	Enhanced cycling stability of Sn-doped Li[Ni0.90Co0.05Mn0.05]O2 via optimization of particle shape and orientation. Chemical Engineering Journal, 2021, 405, 126887.	12.7	38
111	Optimization of Layered Cathode Material with Full Concentration Gradient for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 175-182.	3.1	37
112	Nano-compacted Li₂S/Graphene Composite Cathode for High-Energy Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2019, 4, 2787-2795.	17.4	37
113	Nonvolatile memory cell effect in multilayered Ni1âˆ’xFex self-assembled nanoparticle arrays in polyimide. Applied Physics Letters, 2006, 89, 022112.	3.3	36
114	Surface-plasmon resonance of Ag nanoparticles in polyimide. Journal of Applied Physics, 2005, 98, 084309.	2.5	35
115	Synthesis of nano-crystalline LiFeO2 material with advanced battery performance. Electrochemistry Communications, 2002, 4, 727-731.	4.7	34
116	Effect of Fluorine on the Electrochemical Properties of Layered Li[Ni[sub 0.43]Co[sub 0.22]Mn[sub 0.35]]O[sub 2] Cathode Materials via a Carbonate Process. Electrochemical and Solid-State Letters, 2005, 8, A559.	2.2	34
117	Synthesis and structural changes of LixFeyOz material prepared by a solid-state method. Journal of Power Sources, 2004, 134, 88-94.	7.8	33
118	Structural change and capacity loss mechanism in orthorhombic Li/LiFeO2 system during cycling. Electrochemistry Communications, 2003, 5, 549-554.	4.7	31
119	The effect of boron on the wear behavior of iron-based hardfacing alloys for nuclear power plants valves. Journal of Nuclear Materials, 2006, 352, 90-96.	2.7	31
120	Structural, optical, and magnetic properties of As-doped (Zn0.93Mn0.07)O thin films. Applied Physics Letters, 2006, 89, 022120.	3.3	31
121	Effect of Mn Content in Surface on the Electrochemical Properties of Core-Shell Structured Cathode Materials. Journal of the Electrochemical Society, 2011, 159, A1-A5.	2.9	31
122	Enhanced ferromagnetism in H2O2-treated p-(Zn0.93Mn0.07)O layer. Applied Physics Letters, 2010, 96, 042115.	3.3	30
123	Improved Performances of Li[Ni_{0.65}Co_{0.08}Mn_{0.27}]O₂Cathode Material with Full Concentration Gradient for Li-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A3059-A3063.	2.9	30
124	Ultrasonic spray pyrolysis of nano crystalline spinel LiMn2O4 showing good cycling performance in the 3V range. Electrochimica Acta, 2006, 51, 4089-4095.	5.2	27
125	Improved electrochemical performance of Li-doped natural graphite anode for lithium secondary batteries. Journal of Power Sources, 2005, 139, 230-234.	7.8	26
126	Microstructure of femtosecond laser-induced grating in amorphous silicon. Optics Express, 2005, 13, 6445.	3.4	26

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127	Deposition temperature dependence of titanium oxide thin films grown by remoteâ€plasma atomic layer deposition. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 276-284.	1.8	26
128	Selfâ€Assembly of Silver Nanoparticles Synthesized by using a Liquidâ€Crystalline Phospholipid Membrane. Advanced Materials, 2008, 20, 3404-3409.	21.0	24
129	Effect of outer layer thickness on full concentration gradient layered cathode material for lithium-ion batteries. Journal of Power Sources, 2015, 273, 663-669.	7.8	23
130	Electrochemical properties and structural characterization of layered Li[Ni0.5Mn0.5]O2 cathode materials. Electrochimica Acta, 2003, 48, 2589-2592.	5.2	22
131	Improvement of Electrochemical Properties of Lithiumâ€"Oxygen Batteries Using a Silver Electrode. Journal of Physical Chemistry C, 2015, 119, 15036-15040.	3.1	22
132	Arbitrary surface structuring of amorphous silicon films based on femtosecond-laser-induced crystallization. Applied Physics Letters, 2006, 89, 151907.	3.3	21
133	Periodically ordered inverse opal TiO2/polyaniline core/shell design for electrochemical energy storage applications. Journal of Alloys and Compounds, 2017, 694, 111-118.	5.5	21
134	Monolayer CoPt magnetic nanoparticle array using multiple thin film depositions. Applied Physics Letters, 2007, 90, 023117.	3.3	20
135	Amorphous Silicon Dioxide Nanowire Array Synthesized via Carbonization of Polyimide Thin Film. Journal of Physical Chemistry C, 2008, 112, 4463-4468.	3.1	20
136	Organic Single-Crystal Surface-Induced Polymerization of Conducting Polypyrroles. Langmuir, 2009, 25, 11420-11424.	3.5	20
137	Electrochemical albumin sensing based on silicon nanowires modified by gold nanoparticles. Applied Surface Science, 2011, 257, 4650-4654.	6.1	20
138	Fe-Fe₃O₄Composite Electrode for Lithium Secondary Batteries. Journal of the Electrochemical Society, 2012, 159, A325-A329.	2.9	20
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