Shinichi Komaba

List of Publications by Year
in descending order

280	33,417	82	178
papers	citations	h-index	g-index
		5558	3815

292	292	292	16539
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Research Development on Sodium-Ion Batteries. Chemical Reviews, 2014, 114, 11636-11682.	23.0	4,970
2	P2-type Nax[Fe1/2Mn1/2]O2 made from earth-abundant elements for rechargeable NaÂbatteries. Nature Materials, 2012, 11, 512-517.	13.3	1,884
3	Electrochemical Na Insertion and Solid Electrolyte Interphase for Hardâ€Carbon Electrodes and Application to Naâ€Ion Batteries. Advanced Functional Materials, 2011, 21, 3859-3867.	7.8	1,717
4	Detailed Studies of a High-Capacity Electrode Material for Rechargeable Batteries, Li₂MnO₃â^’LiCo_{1/3}Ni_{1/3}Mn_{1/3}O₂. Journal of the American Chemical Society, 2011, 133, 4404-4419.	6.6	1,066
5	Potassium intercalation into graphite to realize high-voltage/high-power potassium-ion batteries and potassium-ion capacitors. Electrochemistry Communications, 2015, 60, 172-175.	2.3	882
6	Research Development on K-Ion Batteries. Chemical Reviews, 2020, 120, 6358-6466.	23.0	804
7	Towards Kâ€Ion and Naâ€Ion Batteries as â€œBeyond Liâ€Ionâ€. Chemical Record, 2018, 18, 459-479.	2.9	665
8	Fluorinated Ethylene Carbonate as Electrolyte Additive for Rechargeable Na Batteries. ACS Applied Materials & Interfaces, 2011, 3, 4165-4168.	4.0	595
9	Study on the Reversible Electrode Reaction of Na_{1â€“<i>x</i>}Ni_{0.5}Mn_{0.5}O₂ for a Rechargeable Sodium-Ion Battery. Inorganic Chemistry, 2012, 51, 6211-6220.	1.9	593
10	Reviewâ€"Practical Issues and Future Perspective for Na-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2538-A2550.	1.3	579
11	Negative electrodes for Na-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 15007.	1.3	555
12	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. Materials Today, 2019, 23, 87-104.	8.3	537
13	Electrochemical intercalation activity of layered NaCrO2 vs. LiCrO2. Electrochemistry Communications, 2010, 12, 355-358.	2.3	509
14	Role of Alumina Coating on Liâ^’Niâ^’Coâ^’Mnâ^’O Particles as Positive Electrode Material for Lithium-Ion Batteries. Chemistry of Materials, 2005, 17, 3695-3704.	3.2	493
15	High-capacity electrode materials for rechargeable lithium batteries: Li ₃ NbO ₄ -based system with cation-disordered rocksalt structure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7650-7655.	3.3	400
16	A novel K-ion battery: hexacyanoferrate(<scp>ii</scp>)/graphite cell. Journal of Materials Chemistry A, 2017, 5, 4325-4330.	5.2	396
17	Redox reaction of Sn-polyacrylate electrodes in aprotic Na cell. Electrochemistry Communications, 2012, 21, 65-68.	2.3	384
18	Study on Polymer Binders for High-Capacity SiO Negative Electrode of Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 13487-13495.	1.5	344

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19	P2-type Na_{2/3}Ni_{1/3}Mn_{2/3âˆ’x}Ti_xO₂ as a new positive electrode for higher energy Na-ion batteries. Chemical Communications, 2014, 50, 3677-3680.	2.2	334
20	Origin of stabilization and destabilization in solid-state redox reaction of oxide ions for lithium-ion batteries. Nature Communications, 2016, 7, 13814.	5.8	330
21	Crystal Structures and Electrode Performance of Alpha-NaFeO2 for Rechargeable Sodium Batteries. Electrochemistry, 2012, 80, 716-719.	0.6	329
22	New O2/P2â€type Liâ€Excess Layered Manganese Oxides as Promising Multiâ€Functional Electrode Materials for Rechargeable Li/Na Batteries. Advanced Energy Materials, 2014, 4, 1301453.	10.2	307
23	A new electrode material for rechargeable sodium batteries: P2-type Na_{2/3}[Mg_{0.28}Mn_{0.72}]O₂ with anomalously high reversible capacity. Journal of Materials Chemistry A, 2014, 2, 16851-16855.	5.2	284
24	Theoretical Analysis of Interactions between Potassium Ions and Organic Electrolyte Solvents: A Comparison with Lithium, Sodium, and Magnesium Ions. Journal of the Electrochemical Society, 2017, 164, A54-A60.	1.3	276
25	Influence of manganese(II), cobalt(II), and nickel(II) additives in electrolyte on performance of graphite anode for lithium-ion batteries. Electrochimica Acta, 2002, 47, 1229-1239.	2.6	262
26	NaFe0.5Co0.5O2 as high energy and power positive electrode for Na-ion batteries. Electrochemistry Communications, 2013, 34, 60-63.	2.3	262
27	KVPO₄F and KVOPO₄toward 4 volt-class potassium-ion batteries. Chemical Communications, 2017, 53, 5208-5211.	2.2	262
28	Electrochemistry and Solidâ€State Chemistry of NaMeO₂ (Me = 3d Transition Metals). Advanced Energy Materials, 2018, 8, 1703415.	10.2	255
29	Electrolytes and Interphases in Sodiumâ€Based Rechargeable Batteries: Recent Advances and Perspectives. Advanced Energy Materials, 2020, 10, 2000093.	10.2	254
30	Synthesis and electrode performance of carbon coated Na2FePO4F for rechargeable Na batteries. Electrochemistry Communications, 2011, 13, 1225-1228.	2.3	244
31	Black Phosphorus as a High-Capacity, High-Capability Negative Electrode for Sodium-Ion Batteries: Investigation of the Electrode/Electrolyte Interface. Chemistry of Materials, 2016, 28, 1625-1635.	3.2	238
32	Synthesis of hard carbon from argan shells for Na-ion batteries. Journal of Materials Chemistry A, 2017, 5, 9917-9928.	5.2	224
33	Effects of Al doping on the microstructure of LiCoO2 cathode materials. Solid State Ionics, 2001, 139, 47-56.	1.3	221
34	Sodium and Manganese Stoichiometry of P2â€Type Na_{2/3}MnO₂. Angewandte Chemie - International Edition, 2016, 55, 12760-12763.	7.2	217
35	P2- and P3-K_xCoO₂ as an electrochemical potassium intercalation host. Chemical Communications, 2017, 53, 3693-3696.	2.2	214
36	Electrochemically Reversible Sodium Intercalation of Layered NaNi0.5Mn0.5O2 and NaCrO2. ECS Transactions, 2009, 16, 43-55.	0.3	213

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37	Layered oxides as positive electrode materials for Na-ion batteries. MRS Bulletin, 2014, 39, 416-422.	1.7	208
38	Comparative Study of Sodium Polyacrylate and Poly(vinylidene fluoride) as Binders for High Capacity Siâ€“Graphite Composite Negative Electrodes in Li-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 1380-1389.	1.5	203
39	Recent research progress on iron- and manganese-based positive electrode materials for rechargeable sodium batteries. Science and Technology of Advanced Materials, 2014, 15, 043501.	2.8	199
40	Phosphorus Electrodes in Sodium Cells: Small Volume Expansion by Sodiation and the Surfaceâ€Stabilization Mechanism in Aprotic Solvent. ChemElectroChem, 2014, 1, 580-589.	1.7	196
41	Emulsion drying synthesis of olivine LiFePO4/C composite and its electrochemical properties as lithium intercalation material. Electrochimica Acta, 2004, 49, 4213-4222.	2.6	189
42	Enhanced Structural Stability and Cyclability of Al-Doped LiMn[sub 2]O[sub 4] Spinel Synthesized by the Emulsion Drying Method. Journal of the Electrochemical Society, 2001, 148, A482.	1.3	183
43	Synthesis and Electrode Performance of O3-Type NaFeO₂-NaNi_{1/2}Mn_{1/2}O₂Solid Solution for Rechargeable Sodium Batteries. Journal of the Electrochemical Society, 2013, 160, A3131-A3137.	1.3	182
44	Sodium carboxymethyl cellulose as a potential binder for hard-carbon negative electrodes in sodium-ion batteries. Electrochemistry Communications, 2014, 44, 66-69.	2.3	182
45	MgOâ€Template Synthesis of Extremely High Capacity Hard Carbon for Naâ€Ion Battery. Angewandte Chemie - International Edition, 2021, 60, 5114-5120.	7.2	169
46	NMR study for electrochemically inserted Na in hard carbon electrode of sodium ion battery. Journal of Power Sources, 2013, 225, 137-140.	4.0	165
47	Nano-crystalline LiNi0.5Mn1.5O4 synthesized by emulsion drying method. Electrochimica Acta, 2002, 47, 2543-2549.	2.6	163
48	Functionality of Oxide Coating for Li[Li0.05Ni0.4Co0.15Mn0.4]O2as Positive Electrode Materials for Lithium-Ion Secondary Batteries. Journal of Physical Chemistry C, 2007, 111, 4061-4067.	1.5	163
49	Electrochemical and In Situ XAFS-XRD Investigation of Nb[sub 2]O[sub 5] for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2006, 153, A583.	1.3	159
50	Highly concentrated electrolyte solutions for 4 V class potassium-ion batteries. Chemical Communications, 2018, 54, 8387-8390.	2.2	159
51	High-capacity Siâ€“graphite composite electrodes with a self-formed porous structure by a partially neutralized polyacrylate for Li-ion batteries. Energy and Environmental Science, 2012, 5, 9014.	15.6	156
52	Nanostructured TiO₂ and Its Application in Lithiumâ€Ion Storage. Advanced Functional Materials, 2011, 21, 3231-3241.	7.8	154
53	Electrochemical Insertion of Li and Na Ions into Nanocrystalline Fe[sub 3]O[sub 4] and Î±-Fe[sub 2]O[sub 3] for Rechargeable Batteries. Journal of the Electrochemical Society, 2010, 157, A60.	1.3	152
54	New Insight into Structural Evolution in Layered NaCrO₂ during Electrochemical Sodium Extraction. Journal of Physical Chemistry C, 2015, 119, 166-175.	1.5	152

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55	Doping effects on structure and electrode performance of K-birnessite-type manganese dioxides for rechargeable lithium battery. Electrochimica Acta, 2008, 53, 3084-3093.	2.6	151
56	Structural Analysis of Sucrose-Derived Hard Carbon and Correlation with the Electrochemical Properties for Lithium, Sodium, and Potassium Insertion. Chemistry of Materials, 2020, 32, 2961-2977.	3.2	150
57	Effect of Hexafluorophosphate and Fluoroethylene Carbonate on Electrochemical Performance and the Surface Layer of Hard Carbon for Sodiumâ€Ion Batteries. ChemElectroChem, 2016, 3, 1856-1867.	1.7	147
58	Graphiteâ€Siliconâ€Polyacrylate Negative Electrodes in Ionic Liquid Electrolyte for Safer Rechargeable Liâ€Ion Batteries. Advanced Energy Materials, 2011, 1, 759-765.	10.2	140
59	Understanding the Structural Evolution and Redox Mechanism of a NaFeO₂â€“NaCoO₂ Solid Solution for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 6047-6059.	7.8	132
60	Synthesizing higher-capacity hard-carbons from cellulose for Na- and K-ion batteries. Journal of Materials Chemistry A, 2018, 6, 16844-16848.	5.2	131
61	Pâ€²2-Na_{2/3}Mn_{0.9}Me_{0.1}O₂ (Me = Mg, Ti, Co, Ni, Cu, and) Tj ETQq1 1 0.784314 rg Materials, 2017, 29, 8958-8962.	3.2	124
62	Functional binders for reversible lithium intercalation into graphite in propylene carbonate and ionic liquid media. Journal of Power Sources, 2010, 195, 6069-6074.	4.0	122
63	Synthesis and electrochemical properties of Na-rich Prussian blue analogues containing Mn, Fe, Co, and Fe for Na-ion batteries. Journal of Power Sources, 2018, 378, 322-330.	4.0	120
64	High-Capacity Hard Carbon Synthesized from Macroporous Phenolic Resin for Sodium-Ion and Potassium-Ion Battery. ACS Applied Energy Materials, 2020, 3, 135-140.	2.5	113
65	Functional interface of polymer modified graphite anode. Journal of Power Sources, 2009, 189, 197-203.	4.0	111
66	Electrochemical formation of carbon nano-powders with various porosities in molten alkali carbonates. Electrochimica Acta, 2009, 54, 4566-4573.	2.6	110
67	Thermodynamics and Kinetics of Lithium Intercalation into Nb2â€‰Oâ€‰5 Electrodes for a 2 V Rechargeable Lithium Battery. Journal of the Electrochemical Society, 1999, 146, 3203-3210.	1.3	105
68	A layer-structured Na2CoP2O7 pyrophosphate cathode for sodium-ion batteries. RSC Advances, 2013, 3, 3857.	1.7	104
69	Polyanionic Compounds for Potassiumâ€Ion Batteries. Chemical Record, 2019, 19, 735-745.	2.9	102
70	Inorganic electrolyte additives to suppress the degradation of graphite anodes by dissolved Mn(II) for lithium-ion batteries. Journal of Power Sources, 2003, 119-121, 378-382.	4.0	100
71	Hard carbons issued from date palm as efficient anode materials for sodium-ion batteries. Carbon, 2018, 137, 165-173.	5.4	100
72	Impact of 2-Vinylpyridine as Electrolyte Additive on Surface and Electrochemistry of Graphite for Câˆ•LiMn[sub 2]O[sub 4] Li-Ion Cells. Journal of the Electrochemical Society, 2005, 152, A937.	1.3	99

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73	Polyacrylate Modifier for Graphite Anode of Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2009, 12, A107.	2.2	97
74	Enhanced supercapacitive behaviors of birnessite. Electrochemistry Communications, 2008, 10, 1435-1437.	2.3	94
75	Potassium Metal as Reliable Reference Electrodes of Nonaqueous Potassium Cells. Journal of Physical Chemistry Letters, 2019, 10, 3296-3300.	2.1	93
76	Cropâ€Derived Polysaccharides as Binders for Highâ€Capacity Silicon/Graphiteâ€Based Electrodes in Lithiumâ€Ion Batteries. ChemSusChem, 2012, 5, 2307-2311.	3.6	92
77	Hydrothermal synthesis of layered Li[Ni1/3Co1/3Mn1/3]O2 as positive electrode material for lithium secondary battery. Electrochimica Acta, 2005, 50, 4800-4806.	2.6	90
78	Synthesis of layered MnO2 by calcination of KMnO4 for rechargeable lithium battery cathode. Electrochimica Acta, 2000, 46, 31-37.	2.6	85
79	Synthesis of LiNi0.5Mn0.5-xTixO2 by an Emulsion Drying Method and Effect of Ti on Structure and Electrochemical Properties. Chemistry of Materials, 2005, 17, 2427-2435.	3.2	85
80	Potentiometric biosensor for urea based on electropolymerized electroinactive polypyrrole. Electrochimica Acta, 1997, 42, 383-388.	2.6	84
81	Highly Sensitive Microbiosensor for Creatinine Based on the Combination of Inactive Polypyrrole with Polyion Complexes. Journal of the Electrochemical Society, 1998, 145, 406-408.	1.3	84
82	Enhancement of Li-ion battery performance of graphite anode by sodium ion as an electrolyte additive. Electrochemistry Communications, 2003, 5, 962-966.	2.3	83
83	Combination of solid state NMR and DFT calculation to elucidate the state of sodium in hard carbon electrodes. Journal of Materials Chemistry A, 2016, 4, 13183-13193.	5.2	83
84	Synthesis of Li[(Ni0.5Mn0.5)1-xLix]O2by Emulsion Drying Method and Impact of Excess Li on Structural and Electrochemical Properties. Chemistry of Materials, 2006, 18, 1658-1666.	3.2	82
85	Iron phosphide as negative electrode material for Na-ion batteries. Electrochemistry Communications, 2016, 69, 11-14.	2.3	82
86	Electrochemical Properties of LiCoO₂Electrodes with Latex Binders on High-Voltage Exposure. Journal of the Electrochemical Society, 2015, 162, A538-A544.	1.3	80
87	Understanding Particle-Size-Dependent Electrochemical Properties of Li₂MnO₃-Based Positive Electrode Materials for Rechargeable Lithium Batteries. Journal of Physical Chemistry C, 2016, 120, 875-885.	1.5	77
88	Stable and Unstable Diglyme-Based Electrolytes for Batteries with Sodium or Graphite as Electrode. ACS Applied Materials & Interfaces, 2019, 11, 32844-32855.	4.0	77
89	Hydrothermal synthesis and electrochemical behavior of orthorhombic LiMnO2. Electrochimica Acta, 2002, 47, 3287-3295.	2.6	76
90	Synthesis and electrochemical properties of Li_{1.3}Nb_{0.3}V_{0.4}O₂ as a positive electrode material for rechargeable lithium batteries. Chemical Communications, 2016, 52, 2051-2054.	2.2	76

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91	A Comparison of Crystal Structures and Electrode Performance between Na2FePO4F and Na2Fe0.5Mn0.5PO4F Synthesized by Solid-State Method for Rechargeable Na-Ion Batteries. Electrochemistry, 2012, 80, 80-84.	0.6	72
92	Electrochemical lithiation performance and characterization of siliconâ€“graphite composites with lithium, sodium, potassium, and ammonium polyacrylate binders. Physical Chemistry Chemical Physics, 2015, 17, 3783-3795.	1.3	72
93	Synthesis and Structural Characterization of Carbon Powder by Electrolytic Reduction of Molten Li[sub 2]CO[sub 3]-Na[sub 2]CO[sub 3]-K[sub 2]CO[sub 3]. Journal of the Electrochemical Society, 2002, 149, D72.	1.3	69
94	Effect of heat-treatment process on FeF3 nanocomposite electrodes for rechargeable Li batteries. Journal of Materials Chemistry, 2011, 21, 10035.	6.7	69
95	A Reversible Phase Transition for Sodium Insertion in Anatase TiO₂. Chemistry of Materials, 2017, 29, 1836-1844.	3.2	68
96	Concentration Effect of Fluoroethylene Carbonate on the Formation of Solid Electrolyte Interphase Layer in Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 28525-28532.	4.0	66
97	Origin of Enhanced Capacity Retention of P2-Type Na_{2/3}Ni_{1/3-}<i>_x</i>Mn_{2/3}Cu<i>_x</i>O₂for Na-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A2368-A2373.	1.3	62
98	Development of KPF₆/KFSA Binary-Salt Solutions for Long-Life and High-Voltage K-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 34873-34881.	4.0	62
99	Organic Electroluminescence Device Based on an Electrodeposited Poly(3â€substituted thiophen) Film. Journal of the Electrochemical Society, 1997, 144, 742-748.	1.3	61
100	Preparation of todorokite-type manganese-based oxide and its application as lithium and magnesium rechargeable battery cathode. Journal of Power Sources, 2001, 97-98, 515-517.	4.0	59
101	Surface-fluorinated graphite anode materials for Li-ion batteries. Journal of Fluorine Chemistry, 2005, 126, 1111-1116.	0.9	59
102	Preparation of carbon nanoparticles from electrolysis of molten carbonates and use as anode materials in lithium-ion batteries. Solid State Ionics, 2006, 177, 869-875.	1.3	59
103	Cross-Linked Poly(acrylic acid) with Polycarbodiimide as Advanced Binder for Si/Graphite Composite Negative Electrodes in Li-Ion Batteries. ECS Electrochemistry Letters, 2012, 2, A17-A20.	1.9	59
104	â€œNattoâ€•Binder of Poly-Î³-glutamate Enabling to Enhance Silicon/Graphite Composite Electrode Performance for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2017, 5, 6343-6355.	3.2	56
105	Electrochemical Behavior of Graphite Electrode for Lithium Ion Batteries in Mn and Co Additive Electrolytes. Chemistry Letters, 2000, 29, 1154-1155.	0.7	55
106	Capacity fading of LiMn2O4 electrode synthesized by the emulsion drying method. Journal of Power Sources, 2000, 90, 103-108.	4.0	55
107	Improvement of structural integrity and battery performance of LiNi0.5Mn0.5O2 by Al and Ti doping. Journal of Power Sources, 2005, 146, 645-649.	4.0	55
108	Synthesis and Electrochemical Properties of Li₄MoO₅â€“NiO Binary System as Positive Electrode Materials for Rechargeable Lithium Batteries. Chemistry of Materials, 2016, 28, 416-419.	3.2	55

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109	Fast redox of composite electrode of nitroxide radical polymer and carbon with polyacrylate binder. Journal of Power Sources, 2010, 195, 6212-6217.	4.0	53
110	Poly-Î³-glutamate Binder To Enhance Electrode Performances of P2-Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 10986-10997.	4.0	53
111	Neutron powder diffraction studies of LiMn2âˆ’yAlyO4 synthesized by the emulsion drying method. Solid State Ionics, 2002, 149, 47-52.	1.3	52
112	Polyacrylate as Functional Binder for Silicon and Graphite Composite Electrode in Lithium-Ion Batteries. Electrochemistry, 2011, 79, 6-9.	0.6	52
113	High performance red phosphorus electrode in ionic liquid-based electrolyte for Na-ion batteries. Journal of Power Sources, 2017, 363, 404-412.	4.0	52
114	High-sensitivity urea sensor based on the composite film of electroinactive polypyrrole with polyion complex. Sensors and Actuators B: Chemical, 1996, 36, 463-469.	4.0	51
115	A Comparative Study of LiCoO₂ Polymorphs: Structural and Electrochemical Characterization of O2-, O3-, and O4-type Phases. Inorganic Chemistry, 2013, 52, 9131-9142.	1.9	51
116	Structural and Electrochemical Characterizations on Li₂MnO₃-LiCoO₂-LiCrO₂System as Positive Electrode Materials for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2013, 160, A39-A45.	1.3	51
117	Polymer binder: a key component in negative electrodes for high-energy Na-ion batteries. Current Opinion in Chemical Engineering, 2016, 13, 36-44.	3.8	51
118	Application of Ionic Liquid as K-Ion Electrolyte of Graphite//K₂Mn[Fe(CN)₆] Cell. ACS Energy Letters, 2020, 5, 2849-2857.	8.8	51
119	Electrochemical activity of nanocrystalline Fe3O4 in aprotic Li and Na salt electrolytes. Electrochemistry Communications, 2008, 10, 1276-1279.	2.3	50
120	Electrochemical behavior and structural change of spinel-type Li[Li Mn2âˆ’]O4 (x= 0 and 0.2) in sodium cells. Electrochimica Acta, 2012, 82, 296-301.	2.6	50
121	Unveiling pseudocapacitive behavior of hard carbon anode materials for sodium-ion batteries. Electrochimica Acta, 2020, 354, 136647.	2.6	50
122	Na2CoPO4F as a High-voltage Electrode Material for Na-ion Batteries. Electrochemistry, 2014, 82, 909-911.	0.6	49
123	Electrochemistry of Graphite in Li and Na Salt Codissolving Electrolyte for Rechargeable Batteries. Journal of the Electrochemical Society, 2007, 154, A322.	1.3	48
124	Lithium Insertion into Carbonaceous Anode Materials Prepared by Electrolysis of Molten Li-K-Na Carbonates. Journal of the Electrochemical Society, 2003, 150, G67.	1.3	46
125	Nano-structured birnessite prepared by electrochemical activation of manganese(III)-based oxides for aqueous supercapacitors. Electrochimica Acta, 2012, 59, 455-463.	2.6	46
126	Layered P2-Na2/3Co1/2Ti1/2O2 as a high-performance cathode material for sodium-ion batteries. Journal of Power Sources, 2017, 342, 998-1005.	4.0	46

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127	Preparation and electrochemical characterization of LiCoO2 by the emulsion drying method. Journal of Applied Electrochemistry, 2000, 30, 1081-1085.	1.5	44
128	Manganese Dissolution from Lithium Doped Li-Mn-O Spinel Cathode Materials into Electrolyte Solution. Electrochemistry, 2001, 69, 784-787.	0.6	44
129	Title is missing!. Journal of Applied Electrochemistry, 2000, 30, 1179-1182.	1.5	43
130	Hydrothermal synthesis of high crystalline orthorhombic LiMnO2 as a cathode material for Li-ion batteries. Solid State Ionics, 2002, 152-153, 311-318.	1.3	43
131	Sodium and Manganese Stoichiometry of P2â€Type Na_{2/3}MnO₂. Angewandte Chemie, 2016, 128, 12952-12955.	1.6	41
132	Active material and interphase structures governing performance in sodium and potassium ion batteries. Chemical Science, 2022, 13, 6121-6158.	3.7	41
133	Electrochemical molecular sieving of the polyion complex film for designing highly sensitive biosensor for creatinine. Sensors and Actuators B: Chemical, 2000, 65, 58-63.	4.0	40
134	Hydrothermal Synthesis of Orthorhombic LiCo[sub x]Mn[sub 1âˆ'x]O[sub 2] and Their Structural Changes during Cycling. Journal of the Electrochemical Society, 2002, 149, A1349.	1.3	40
135	Alkali carbonate-coated graphite electrode for lithium-ion batteries. Carbon, 2008, 46, 1184-1193.	5.4	40
136	Impact of the Cut-Off Voltage on Cyclability and Passive Interphase of Sn-Polyacrylate Composite Electrodes for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 15017-15026.	1.5	40
137	Nanometer-size Na cluster formation in micropore of hard carbon as origin of higher-capacity Na-ion battery. Npj Computational Materials, 2021, 7, .	3.5	39
138	Synthesis of Nanocrystalline Fe₂O₃ for Lithium Secondary Battery Cathode. Electrochemistry, 2002, 70, 506-510.	0.6	38
139	A Layered Inorganicâ€"Organic Open Framework Material as a 4 V Positive Electrode with Highâ€Rate Performance for Kâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1902528.	10.2	37
140	A New Emerging Technology: Naâ€Ion Batteries. Small Methods, 2019, 3, 1900184.	4.6	37
141	Sodium-driven Rechargeable Batteries: An Effort towards Future Energy Storage. Chemistry Letters, 2020, 49, 1507-1516.	0.7	37
142	Fabrication and electrochemical characteristics of all-solid-state lithium-ion rechargeable batteries composed of LiMn2O4 positive and V2O5 negative electrodes. Journal of Power Sources, 2001, 97-98, 798-800.	4.0	36
143	Synthesis of metal-doped todorokite-type MnO2 and its cathode characteristics for rechargeable lithium batteries. Journal of Power Sources, 2005, 146, 310-314.	4.0	36
144	Thermal Stability of Na_{<i>x</i>}CrO₂ for Rechargeable Sodium Batteries; Studies by High-Temperature Synchrotron X-ray Diffraction. ACS Applied Materials & Interfaces, 2016, 8, 32292-32299.	4.0	36

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145	Acrylic Acid-Based Copolymers as Functional Binder for Silicon/Graphite Composite Electrode in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2245-A2249.	1.3	35
146	Structural Investigation of Layered Li[sub 1â^'Î´]Mn[sub x]Cr[sub 1â^'x]O[sub 2] by XANES and In Situ XRD Measurements. Journal of the Electrochemical Society, 2003, 150, A1560.	1.3	33
147	Effect of excess lithium on LiNi0.5Mn0.5O2+Î´ and its electrochemistry as lithium insertion material. Solid State Ionics, 2004, 170, 139-144.	1.3	33
148	Improvement of cycling performance of Li1.1Mn1.9O4 at 60Â°C by NiO addition for Li-ion secondary batteries. Electrochimica Acta, 2006, 51, 5912-5919.	2.6	33
149	Impact of Sodium Salt Coating on a Graphite Negative Electrode for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2006, 9, A130.	2.2	33
150	Low-temperature phase of Li2FeSiO4: crystal structure and a preliminary study of electrochemical behavior. Dalton Transactions, 2011, 40, 1846.	1.6	33
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