

Shinichi Komaba

List of Publications by Year in descending order

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Version: 2024-02-01

280
papers

33,417
citations

5574

82
h-index

3830

178
g-index

292
all docs

292
docs citations

292
times ranked

16539
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode materials for K-ion batteries. , 2023, , 83-127.		3
2	Na Diffusion in Hard Carbon Studied with Positive Muon Spin Rotation and Relaxation. ACS Physical Chemistry Au, 2022, 2, 98-107.	4.0	7
3	Development of Nonaqueous Electrolytes for High-Voltage K-Ion Batteries. Bulletin of the Chemical Society of Japan, 2022, 95, 569-581.	3.2	14
4	Superconcentrated NaFSA“KFSa Aqueous Electrolytes for 2 V-Class Dual-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 23507-23517.	8.0	7
5	Active material and interphase structures governing performance in sodium and potassium ion batteries. Chemical Science, 2022, 13, 6121-6158.	7.4	41
6	All-Solid-State Potassium Polymer Batteries Enabled by the Effective Pretreatment of Potassium Metal. ACS Energy Letters, 2022, 7, 2244-2246.	17.4	20
7	MgO“Template Synthesis of Extremely High Capacity Hard Carbon for Na“Ion Battery. Angewandte Chemie - International Edition, 2021, 60, 5114-5120.	13.8	169
8	MgO“Template Synthesis of Extremely High Capacity Hard Carbon for Na“Ion Battery. Angewandte Chemie, 2021, 133, 5174-5180.	2.0	11
9	A phosphite-based layered framework as a novel positive electrode material for Na-ion batteries. Journal of Materials Chemistry A, 2021, 9, 5045-5052.	10.3	7
10	A vanadium-based oxide-phosphate-pyrophosphate framework as a 4 V electrode material for K-ion batteries. Chemical Science, 2021, 12, 12383-12390.	7.4	10
11	Effect of Particle Size and Anion Vacancy on Electrochemical Potassium Ion Insertion into Potassium Manganese Hexacyanoferrates. ChemSusChem, 2021, 14, 1166-1175.	6.8	31
12	Phase evolution of electrochemically potassium intercalated graphite. Journal of Materials Chemistry A, 2021, 9, 11187-11200.	10.3	27
13	Nanometer-size Na cluster formation in micropore of hard carbon as origin of higher-capacity Na-ion battery. Npj Computational Materials, 2021, 7, .	8.7	39
14	Comparison of Ionic Transport Properties of Non-Aqueous Lithium and Sodium Hexafluorophosphate Electrolytes. Journal of the Electrochemical Society, 2021, 168, 040538.	2.9	24
15	Na ₃ V ₂ O ₂ (PO ₄) ₂ F ₃ -2 as a stable positive electrode for potassium-ion batteries. Journal of Power Sources, 2021, 493, 229676.	7.8	10
16	Impact of Surface Hydrophilicity of Gas-Diffusion-Type Biocathodes on Their Oxygen Reduction Ability for Biofuel Cells. Journal of the Electrochemical Society, 2021, 168, 074506.	2.9	3
17	Multi“Enzyme“Modified Bioanode Utilising Starch as a Fuel. ChemElectroChem, 2021, 8, 4199-4206.	3.4	4
18	Effect of Crystallinity of Synthetic Graphite on Electrochemical Potassium Intercalation into Graphite. Electrochemistry, 2021, 89, 433-438.	1.4	5

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19	1,3,2-Dioxathiolane 2,2-Dioxide as an Electrolyte Additive for K-Metal Cells. ACS Energy Letters, 2021, 6, 3643-3649.	17.4	23
20	Design of all-solid-state chloride and nitrate ion-selective electrodes using anion insertion materials of electrodeposited poly(allylamine)-MnO ₂ composite. Electrochimica Acta, 2021, 389, 138749.	5.2	9
21	Impact of Mg and Ti doping in O ₃ type NaNi _{1/2} Mn _{1/2} O ₂ on reversibility and phase transition during electrochemical Na intercalation. Journal of Materials Chemistry A, 2021, 9, 12830-12844.	10.3	32
22	Multi-Enzyme-Modified Bioanode Utilising Starch as a Fuel. ChemElectroChem, 2021, 8, 4160.	3.4	0
23	Effect of Substituted Styrene-Butadiene Rubber Binders on the Stability of 4.5 V-Charged LiCoO ₂ Electrode. ChemElectroChem, 2021, 8, 4345-4352.	3.4	5
24	Enhanced Electrochemical Properties of KTiOPO ₄ -rGO Negative Electrode for Sodium and Potassium Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 24823-24830.	3.1	5
25	La ₂ Ni _{0.5} Li _{0.5} O ₄ Modified Single Polycrystalline Particles of NMC622 for Improved Capacity Retention in High-Voltage Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 110505.	2.9	3
26	Structural change induced by electrochemical sodium extraction from layered O ₃ -NaMnO ₂ . Journal of Materials Chemistry A, 2021, 9, 26810-26819.	10.3	10
27	Development of advanced electrolytes in Na-ion batteries: application of the Red Moon method for molecular structure design of the SEI layer. RSC Advances, 2021, 12, 971-984.	3.6	14
28	High-Capacity Hard Carbon Synthesized from Macroporous Phenolic Resin for Sodium-Ion and Potassium-Ion Battery. ACS Applied Energy Materials, 2020, 3, 135-140.	5.1	113
29	Investigation and Improvement of Metallic Aluminum as Alloying Electrode in Non-Aqueous Li Cells. Journal of the Electrochemical Society, 2020, 167, 110513.	2.9	9
30	Elucidating Influence of Mg- and Cu-Doping on Electrochemical Properties of O ₃ -Na _x [Fe,Mn]O ₂ for Na-Ion Batteries. Small, 2020, 16, e2006483.	10.0	24
31	KFSA/glyme electrolytes for 4 V-class K-ion batteries. Journal of Materials Chemistry A, 2020, 8, 23766-23771.	10.3	26
32	Impact of Newly Developed Styrene-Butadiene Rubber Binder on the Electrode Performance of High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Electrode. ACS Applied Energy Materials, 2020, 3, 7978-7987.	5.1	22
33	Development of KPF ₆ /KFSA Binary-Salt Solutions for Long-Life and High-Voltage K-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 34873-34881.	8.0	62
34	Sodium-driven Rechargeable Batteries: An Effort towards Future Energy Storage. Chemistry Letters, 2020, 49, 1507-1516.	1.3	37
35	Application of Ionic Liquid as K-Ion Electrolyte of Graphite//K ₂ Mn[Fe(CN) ₆] Cell. ACS Energy Letters, 2020, 5, 2849-2857.	17.4	51
36	Structural Investigation of Quaternary Layered Oxides upon Na-Ion Deinsertion. Inorganic Chemistry, 2020, 59, 7408-7414.	4.0	9

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37	Application of modified styrene-butadiene-rubber-based latex binder to high-voltage operating LiCoO ₂ composite electrodes for lithium-ion batteries. Journal of Power Sources, 2020, 468, 228332.	7.8	27
38	Unveiling pseudocapacitive behavior of hard carbon anode materials for sodium-ion batteries. Electrochimica Acta, 2020, 354, 136647.	5.2	50
39	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.	6.7	150
40	Research Development on K-Ion Batteries. Chemical Reviews, 2020, 120, 6358-6466.	47.7	804
41	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. Advanced Energy Materials, 2020, 10, 2000093.	19.5	254
42	(Invited) Research Development on K-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 25-25.	0.0	0
43	Effect of Particle Size and Anion Vacancies on Electrochemical Performances of Potassium Manganese Hexacyanoferrate for Potassium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 170-170.	0.0	0
44	(Invited) Sodium Insertion Carbon Materials As “Beyond Li-GIC”. ECS Meeting Abstracts, 2020, MA2020-02, 559-559.	0.0	0
45	Stable and Unstable Diglyme-Based Electrolytes for Batteries with Sodium or Graphite as Electrode. ACS Applied Materials & Interfaces, 2019, 11, 32844-32855.	8.0	77
46	Removal of strontium from aqueous solutions using scallop shell powder. Journal of the Ceramic Society of Japan, 2019, 127, 111-116.	1.1	6
47	A Layered Inorganic–Organic Open Framework Material as a 4 V Positive Electrode with High-Rate Performance for K-Ion Batteries. Advanced Energy Materials, 2019, 9, 1902528.	19.5	37
48	Application of Acrylic–Rubber-Based Latex Binder to High-Voltage Spinel Electrodes of Lithium-Ion Batteries. ChemElectroChem, 2019, 6, 5070-5079.	3.4	23
49	Systematic Study on Materials for Lithium-, Sodium-, and Potassium-Ion Batteries. Electrochemistry, 2019, 87, 312-320.	1.4	11
50	Correlation of carbonization condition with metallic property of sodium clusters formed in hard carbon studied using ²³ Na nuclear magnetic resonance. Carbon, 2019, 145, 712-715.	10.3	33
51	Lithium Magnesium Tungstate Solid as an Additive into Li(Ni _{1/3} Mn _{1/3} Co _{1/3})O ₂ Electrodes for Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A5430-A5436.	2.9	9
52	Optimizing Micrometer-Sized Sn Powder Composite Electrodes for Sodium-Ion Batteries. Electrochemistry, 2019, 87, 70-77.	1.4	4
53	Potassium Metal as Reliable Reference Electrodes of Nonaqueous Potassium Cells. Journal of Physical Chemistry Letters, 2019, 10, 3296-3300.	4.6	93
54	A New Emerging Technology: Na-Ion Batteries. Small Methods, 2019, 3, 1900184.	8.6	37

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55	States of thermochemically or electrochemically synthesized Na_xPy compounds analyzed by solid state ^{23}Na and ^{31}P nuclear magnetic resonance with theoretical calculation. Journal of Power Sources, 2019, 413, 418-424.	7.8	11
56	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. Materials Today, 2019, 23, 87-104.	14.2	537
57	Polyanionic Compounds for Potassium-Ion Batteries. Chemical Record, 2019, 19, 735-745.	5.8	102
58	KPF6-KFSA Binary Salt Electrolytes for 4 V-Class Potassium Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
59	(Invited) On the NaMeO_2 (Me = 3d metal) for Na-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
60	2 V-Class Aqueous Multi-Ion Batteries Realized By Superconcentrated Na/K Electrolytes. ECS Meeting Abstracts, 2019, , .	0.0	0
61	(Keynote) Polyanionic Compounds for K-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
62	$\text{K}_2[(\text{VO})_2(\text{HPO}_4)_2(\text{C}_2\text{O}_4)]$ and $\text{K} \times \text{VOPO}_4$ as 4 V-Class Positive Electrode Materials for K-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
63	(Invited) Functional Binders for Li-, Na-, and K-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
64	Poly- β -glutamate Binder To Enhance Electrode Performances of $\text{P}_2\text{-Na}_{2/3}\text{Ni}_{1/3}\text{Mn}_{2/3}\text{O}_2$ for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 10986-10997.	8.0	53
65	Effect of diphenylethane as an electrolyte additive to enhance high-temperature durability of $\text{LiCoO}_2/\text{graphite}$ cells. Electrochimica Acta, 2018, 270, 120-128.	5.2	7
66	Towards K-Ion and Na-Ion Batteries as “Beyond Li-Ion”. Chemical Record, 2018, 18, 459-479.	5.8	665
67	Unraveling the Role of Doping in Selective Stabilization of NaMnO_2 Polymorphs: Combined Theoretical and Experimental Study. Chemistry of Materials, 2018, 30, 1257-1264.	6.7	24
68	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.	7.8	120
69	The electrochemical storage mechanism in oxy-hydroxyfluorinated anatase for sodium-ion batteries. Inorganic Chemistry Frontiers, 2018, 5, 1100-1106.	6.0	5
70	Effect of Binary Hydrophilic Binders of SBR Latex and Water-Soluble Polymer on Gas-Diffusion Biocathode Performance. Journal of the Electrochemical Society, 2018, 165, F1369-F1375.	2.9	2
71	The Mechanism of Electro-Catalytic Oxidation of Glucose on Manganese Dioxide Electrode Used for Amperometric Glucose Detection. Journal of the Electrochemical Society, 2018, 165, H742-H749.	2.9	9
72	Multi-Enzyme Immobilized Anodes Utilizing Maltose Fuel for Biofuel Cell Applications. ChemElectroChem, 2018, 5, 2271-2278.	3.4	18

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73	Hard carbons issued from date palm as efficient anode materials for sodium-ion batteries. Carbon, 2018, 137, 165-173.	10.3	100
74	Synthesis and Electrochemical Performance of C-Base-Centered Lepidocrocite-like Titanates for Na-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3630-3635.	5.1	12
75	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.	8.0	66
76	Highly concentrated electrolyte solutions for 4 V class potassium-ion batteries. Chemical Communications, 2018, 54, 8387-8390.	4.1	159
77	Insights into Li ⁺ , Na ⁺ , and K ⁺ Intercalation in Lepidocrocite-Type Layered TiO ₂ Structures. ACS Applied Energy Materials, 2018, 1, 2078-2086.	5.1	31
78	Synthesizing higher-capacity hard-carbons from cellulose for Na- and K-ion batteries. Journal of Materials Chemistry A, 2018, 6, 16844-16848.	10.3	131
79	Electrochemistry and Solid-State Chemistry of NaMeO ₂ (Me = 3d Transition Metals). Advanced Energy Materials, 2018, 8, 1703415.	19.5	255
80	Layered P2-Na ₂ /3Co ₁ /2Ti ₁ /2O ₂ as a high-performance cathode material for sodium-ion batteries. Journal of Power Sources, 2017, 342, 998-1005.	7.8	46
81	A novel K-ion battery: hexacyanoferrate(ⁱⁱ)/graphite cell. Journal of Materials Chemistry A, 2017, 5, 4325-4330.	10.3	396
82	A Reversible Phase Transition for Sodium Insertion in Anatase TiO ₂ . Chemistry of Materials, 2017, 29, 1836-1844.	6.7	68
83	Synthesis of hard carbon from argan shells for Na-ion batteries. Journal of Materials Chemistry A, 2017, 5, 9917-9928.	10.3	224
84	KVPO ₄ F and KVOPO ₄ toward 4 volt-class potassium-ion batteries. Chemical Communications, 2017, 53, 5208-5211.	4.1	262
85	“Natto” Binder of Poly- γ -glutamate Enabling to Enhance Silicon/Graphite Composite Electrode Performance for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2017, 5, 6343-6355.	6.7	56
86	P2- and P3-K _x CoO ₂ as an electrochemical potassium intercalation host. Chemical Communications, 2017, 53, 3693-3696.	4.1	214
87	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.	2.9	276
88	P ₂ -Na _{2/3} Mn _{0.9} Me _{0.1} O ₂ (Me = Mg, Ti, Co, Ni, Cu, and) Tj ETQq0 0 0 rgBT /Over Materials, 2017, 29, 8958-8962.	6.7	124
89	All-solid-state ion-selective electrodes with redox-active lithium, sodium, and potassium insertion materials as the inner solid-contact layer. Analyst, The, 2017, 142, 3857-3866.	3.5	20
90	Origin of Enhanced Capacity Retention of P2-Type Na _{2/3} Ni _{1/3} - _x Mn _{2/3} Cu _x O ₂ for Na-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A2368-A2373.	2.9	62

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91	High performance red phosphorus electrode in ionic liquid-based electrolyte for Na-ion batteries. Journal of Power Sources, 2017, 363, 404-412.	7.8	52
92	Hard Carbons Prepared by Pyrolyzing Date's Pits for Sodium Ion Batteries. , 2017, , .		0
93	Understanding the Structural Evolution and Redox Mechanism of a $\text{NaFeO}_{2/3}\text{NaCoO}_{2/3}$ Solid Solution for Sodium-Ion Batteries. Advanced Functional Materials, 2016, 26, 6047-6059.	14.9	132
94	Special proceedings of the Symposium A: "Advances in energy storage systems: lithium batteries, supercapacitors and beyond", during ICMAT 2015, June 28-July 3, Singapore. Journal of Solid State Electrochemistry, 2016, 20, 1819-1820.	2.5	1
95	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.	3.1	40
96	Origin of stabilization and destabilization in solid-state redox reaction of oxide ions for lithium-ion batteries. Nature Communications, 2016, 7, 13814.	12.8	330
97	Sodium and Manganese Stoichiometry of $\text{P2-type Na}_{2/3}\text{MnO}_2$. Angewandte Chemie, 2016, 128, 12952-12955.	2.0	41
98	Iron phosphide as negative electrode material for Na-ion batteries. Electrochemistry Communications, 2016, 69, 11-14.	4.7	82
99	Preparation and electrochemical properties of $\text{Li}_{2/3}\text{MoO}_3/\text{C}$ composites for rechargeable Li-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 28556-28563.	2.8	19
100	Polymer binder: a key component in negative electrodes for high-energy Na-ion batteries. Current Opinion in Chemical Engineering, 2016, 13, 36-44.	7.8	51
101	Effect of Hexafluorophosphate and Fluoroethylene Carbonate on Electrochemical Performance and the Surface Layer of Hard Carbon for Sodium-Ion Batteries. ChemElectroChem, 2016, 3, 1856-1867.	3.4	147
102	Sodium and Manganese Stoichiometry of $\text{P2-type Na}_{2/3}\text{MnO}_2$. Angewandte Chemie - International Edition, 2016, 55, 12760-12763.	13.8	217
103	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.	10.3	83
104	Thermal Stability of Na_xCrO_2 for Rechargeable Sodium Batteries; Studies by High-Temperature Synchrotron X-ray Diffraction. ACS Applied Materials & Interfaces, 2016, 8, 32292-32299.	8.0	36
105	Synthesis and electrochemical properties of $\text{Li}_{1.3}\text{Nb}_{0.3}\text{V}_{0.4}\text{O}_2$ as a positive electrode material for rechargeable lithium batteries. Chemical Communications, 2016, 52, 2051-2054.	4.1	76
106	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.	6.7	238
107	Synthesis and Electrochemical Properties of Li_4MoO_5 - NiO Binary System as Positive Electrode Materials for Rechargeable Lithium Batteries. Chemistry of Materials, 2016, 28, 416-419.	6.7	55
108	Understanding Particle-Size-Dependent Electrochemical Properties of Li_2MnO_3 -Based Positive Electrode Materials for Rechargeable Lithium Batteries. Journal of Physical Chemistry C, 2016, 120, 875-885.	3.1	77

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109	Degradation Mechanisms of Electric Double Layer Capacitors with Activated Carbon Electrodes on High Voltage Exposure. <i>Electrochemistry</i> , 2015, 83, 609-618.	1.4	12
110	Crystal Structures and Electrochemical Properties of P2/O2-type Mn-based Layered Oxides. <i>Hamon</i> , 2015, 25, 264-267.	0.0	0
111	High-capacity electrode materials for rechargeable lithium batteries: Li ₃ NbO ₄ -based system with cation-disordered rocksalt structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7650-7655.	7.1	400
112	Electrochemical lithiation performance and characterization of silicon-graphite composites with lithium, sodium, potassium, and ammonium polyacrylate binders. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3783-3795.	2.8	72
113	New Insight into Structural Evolution in Layered NaCrO ₂ during Electrochemical Sodium Extraction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 166-175.	3.1	152
114	Improved High-Temperature Performance and Surface Chemistry of Graphite/LiMn ₂ O ₄ Li-Ion Cells by Fluorosilane-Based Electrolyte Additive. <i>Electrochimica Acta</i> , 2015, 160, 347-356.	5.2	31
115	Electrochemical Properties of LiCoO ₂ Electrodes with Latex Binders on High-Voltage Exposure. <i>Journal of the Electrochemical Society</i> , 2015, 162, A538-A544.	2.9	80
116	Fluorine Chemistry for Negative Electrode in Sodium and Lithium Ion Batteries. , 2015, , 387-414.		11
117	Potassium intercalation into graphite to realize high-voltage/high-power potassium-ion batteries and potassium-ion capacitors. <i>Electrochemistry Communications</i> , 2015, 60, 172-175.	4.7	882
118	Review-Practical Issues and Future Perspective for Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2538-A2550.	2.9	579
119	Improvement of Electrochemical Performance of Bilirubin Oxidase Modified Gas Diffusion Biocathode by Hydrophilic Binder. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1425-F1430.	2.9	11
120	Effect of Lithium in Transition Metal Layers of Ni-Rich Cathode Materials on Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2313-A2318.	2.9	16
121	Acrylic Acid-Based Copolymers as Functional Binder for Silicon/Graphite Composite Electrode in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2245-A2249.	2.9	35
122	Layered oxides as positive electrode materials for Na-ion batteries. <i>MRS Bulletin</i> , 2014, 39, 416-422.	3.5	208
123	Study of electrochemical alkali insertion into carbonaceous materials. , 2014, , .		1
124	Recent research progress on iron- and manganese-based positive electrode materials for rechargeable sodium batteries. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 043501.	6.1	199
125	P2-type Na _x [Fe,Ni,Mn]O ₂ for high capacity Na-ion batteries. , 2014, , .		0
126	Rechargeable Na-ion batteries for large format applications. , 2014, , .		0

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127	Phosphorus Electrodes in Sodium Cells: Small Volume Expansion by Sodiation and the Surfaceâ€Stabilization Mechanism in Aprotic Solvent. ChemElectroChem, 2014, 1, 580-589.	3.4	196
128	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.	19.5	307
129	Research Development on Sodium-Ion Batteries. Chemical Reviews, 2014, 114, 11636-11682.	47.7	4,970
130	A new electrode material for rechargeable sodium batteries: P2-type $\text{Na}_{2/3}[\text{Mg}_{0.28}\text{Mn}_{0.72}\text{O}_2]$ with anomalously high reversible capacity. Journal of Materials Chemistry A, 2014, 2, 16851-16855.	10.3	284
131	P2-type $\text{Na}_{2/3}\text{Ni}_{1/3}\text{Mn}_{2/3}\text{Ti}_x\text{O}_2$ as a new positive electrode for higher energy Na-ion batteries. Chemical Communications, 2014, 50, 3677-3680.	4.1	334
132	Double-layered polyion complex for application to biosensing electrodes. Electrochemistry Communications, 2014, 47, 88-91.	4.7	5
133	Negative electrodes for Na-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 15007.	2.8	555
134	Fabrication of Carbonâ€Feltâ€Based Multiâ€Enzyme Immobilized Anodes to Oxidize Sucrose for Biofuel Cells. ChemPhysChem, 2014, 15, 2145-2151.	2.1	27
135	Sodium carboxymethyl cellulose as a potential binder for hard-carbon negative electrodes in sodium-ion batteries. Electrochemistry Communications, 2014, 44, 66-69.	4.7	182
136	$\text{Na}_2\text{CoPO}_4\text{F}$ as a High-voltage Electrode Material for Na-ion Batteries. Electrochemistry, 2014, 82, 909-911.	1.4	49
137	Manganese Oxides for Supercapacitors. , 2014, , 317-338.		0
138	A Comparative Study of LiCoO_2 Polymorphs: Structural and Electrochemical Characterization of O2-, O3-, and O4-type Phases. Inorganic Chemistry, 2013, 52, 9131-9142.	4.0	51
139	Preparation of Carbonaceous Materials in Fused Carbonate Salts. , 2013, , 331-354.		1
140	NMR study for electrochemically inserted Na in hard carbon electrode of sodium ion battery. Journal of Power Sources, 2013, 225, 137-140.	7.8	165
141	A layer-structured $\text{Na}_2\text{CoP}_2\text{O}_7$ pyrophosphate cathode for sodium-ion batteries. RSC Advances, 2013, 3, 3857.	3.6	104
142	$\text{NaFe}_{0.5}\text{Co}_{0.5}\text{O}_2$ as high energy and power positive electrode for Na-ion batteries. Electrochemistry Communications, 2013, 34, 60-63.	4.7	262
143	Synthesis and Electrode Performance of O3-Type $\text{NaFeO}_2\text{-NaNi}_{1/2}\text{Mn}_{1/2}\text{O}_2$ Solid Solution for Rechargeable Sodium Batteries. Journal of the Electrochemical Society, 2013, 160, A3131-A3137.	2.9	182
144	Thermal Behavior of the Layered Oxide $\text{Li}_{2/3}\text{Co}_{2/3}\text{Mn}_{1/3}\text{O}_2$ Obtained by Ion Exchange from the P2-Type $\text{Na}_{2/3}\text{Co}_{2/3}\text{Mn}_{1/3}\text{O}_2$ Phase. Journal of Physical Chemistry C, 2013, 117, 3264-3271.	3.1	13

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163	Study on Polymer Binders for High-Capacity SiO Negative Electrode of Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 13487-13495.	3.1	344
164	Neutralized Poly(Acrylic Acid) as Polymer Binder for High Capacity Silicon Negative Electrodes. ECS Meeting Abstracts, 2011, , .	0.0	1
165	Polyacrylate as Functional Binder for Silicon and Graphite Composite Electrode in Lithium-Ion Batteries. Electrochemistry, 2011, 79, 6-9.	1.4	52
166	Synthesis and electrode performance of carbon coated Na ₂ FePO ₄ F for rechargeable Na batteries. Electrochemistry Communications, 2011, 13, 1225-1228.	4.7	244
167	Detailed Studies of a High-Capacity Electrode Material for Rechargeable Batteries, Li ₂ MnO ₃ ~LiCo _{1/3} Ni _{1/3} Mn _{1/3} O ₂ . Journal of the American Chemical Society, 2011, 133, 4404-4419.	13.7	1,066
168	Nanostructured TiO ₂ and Its Application in Lithium-Ion Storage. Advanced Functional Materials, 2011, 21, 3231-3241.	14.9	154
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