Shigeto Okada

List of Publications by Year
in descending order

101 papers	3,869 citations	186209 28 h-index	123376 61 g-index
104 all docs	104 docs citations	104 times ranked	4414 citing authors

#	Article	IF	Citations
1	Electrochemical Properties of NaTi2(PO4)3 Anode for Rechargeable Aqueous Sodium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A1067.	1.3	336
2	Thermal behavior of Li1âˆ’yNiO2 and the decomposition mechanism. Solid State Ionics, 1998, 109, 295-302.	1.3	256
3	Performance of NASICON Symmetric Cell with Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2010, 157, A536.	1.3	236
4	Electrochemical and Thermal Properties of Î±-NaFeO₂Cathode for Na-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A3077-A3081.	1.3	236
5	Thermal stability of LixCoO2 cathode for lithium ion battery. Solid State Ionics, 2002, 148, 311-316.	1.3	225
6	Fabrication and performances of all solid-state symmetric sodium battery based on NASICON-related compounds. Electrochimica Acta, 2013, 101, 59-65.	2.6	221
7	Cathode performance and voltage estimation of metal trihalides. Journal of Power Sources, 1997, 68, 716-719.	4.0	211
8	Cathode properties of metal trifluorides in Li and Na secondary batteries. Journal of Power Sources, 2009, 190, 558-562.	4.0	157
9	Discharge/charge reaction mechanism of a pyrite-type FeS2 cathode for sodium secondary batteries. Journal of Power Sources, 2014, 247, 391-395.	4.0	145
10	Cathode properties of Na2C6O6 for sodium-ion batteries. Electrochimica Acta, 2013, 110, 240-246.	2.6	112
11	Effect of Concentrated Electrolyte on Aqueous Sodium-ion Battery with Sodium Manganese Hexacyanoferrate Cathode. Electrochemistry, 2017, 85, 179-185.	0.6	106
12	Electrochemical properties of rechargeable aqueous lithium ion batteries with an olivine-type cathode and a Nasicon-type anode. Journal of Power Sources, 2009, 189, 706-710.	4.0	98
13	Over 2 V Aqueous Sodiumâ€Ion Battery with Prussian Blueâ€Type Electrodes. Small Methods, 2019, 3, 1800220.	4.6	94
14	Improved electrochemical performance of tin-sulfide anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16971-16977.	5.2	83
15	In situ crosslinked PVAâ€“PEI polymer binder for long-cycle silicon anodes in Li-ion batteries. RSC Advances, 2016, 6, 68371-68378.	1.7	77
16	Electrolyte dependence of the performance of a Na2FeP2O7//NaTi2(PO4)3 rechargeable aqueous sodium-ion battery. Journal of Power Sources, 2016, 327, 327-332.	4.0	72
17	Thermal stability of FeF3 cathode for Li-ion batteries. Journal of Power Sources, 2010, 195, 4952-4956.	4.0	54
18	Synthesis of sub-10Ânm copper sulphide rods as high-performance anode for long-cycle life Li-ion batteries. Journal of Power Sources, 2016, 306, 408-412.	4.0	51

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19	Insight into the limited electrochemical activity of NaVP₂O₇. RSC Advances, 2015, 5, 64991-64996.	1.7	48
20	Improvement in the Energy Density of Na₃V₂(PO₄)₃ by Mg Substitution. ChemElectroChem, 2017, 4, 2755-2759.	1.7	46
21	Synthesis of FeOF using roll-quenching method and the cathode properties for lithium-ion battery. Journal of Power Sources, 2013, 243, 494-498.	4.0	44
22	Investigation of metastable Na2FeSiO4 as a cathode material for Na-ion secondary battery. Materials Chemistry and Physics, 2016, 171, 45-49.	2.0	44
23	A Singleâ€Phase, Allâ€Solidâ€State Sodium Battery Using Na_{3â^'}<i>_x</i>V_{2â^'}<i>_x</i>Zr<i>_x</i>(PO₄)<sub>3</su as the Cathode, Anode, and Electrolyte. Advanced Materials Interfaces, 2017, 4, 1600942.	1.9	41
24	Thermal Stability of Electrolytes with Mixtures of LiPF[sub 6] and LiBF[sub 4] Used in Lithium-Ion Cells. Journal of the Electrochemical Society, 2004, 151, A1836.	1.3	40
25	Structural and electrochemical properties of Fe- and Al-doped Li3V2(PO4)3 for all-solid-state symmetric lithium ion batteries prepared by spray-drying-assisted carbothermal method. Solid State Ionics, 2015, 272, 138-143.	1.3	33
26	Energy-savvy solid-state and sonochemical synthesis of lithium sodium titanate as an anode active material for Li-ion batteries. Journal of Power Sources, 2015, 296, 276-281.	4.0	30
27	Lithium metal borate (LiMBO3) family of insertion materials for Li-ion batteries: a sneak peak. Ionics, 2015, 21, 1801-1812.	1.2	30
28	Improvement of Cathode Properties by Lithium Excess in Disordered Rocksalt Li₂₊₂<i>_x</i>Mn_{1−}<i>_x</i>Ti_{1−}<i>_x</i>O< Electrochemistry, 2016, 84, 597-600.	0.6	30
29	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO₃)₃] Sodium Battery Insertion Material: Structural and Electrochemical Insights. Inorganic Chemistry, 2017, 56, 5918-5929.	1.9	29
30	The Effect of Additives in Room Temperature Molten Salt - based Lithium Battery Electrolytes. Electrochemistry, 2003, 71, 1114-1116.	0.6	27
31	Na₂FePO₄F Fluorophosphate as Positive Insertion Material for Aqueous Sodiumâ€Ion Batteries. ChemElectroChem, 2019, 6, 444-449.	1.7	27
32	Thermal characteristics of a FeF3 cathode via conversion reaction in comparison with LiFePO4. Journal of Power Sources, 2011, 196, 8110-8115.	4.0	26
33	Investigation of Al-doping effects on the NaFe0.5Mn0.5O2 cathode for Na-ion batteries. Ionics, 2016, 22, 2245-2248.	1.2	26
34	Cathode Properties of Perovskite-type NaMF3 (M= Fe, Mn, and Co) Prepared by Mechanical Ball Milling for Sodium-ion Battery. Electrochimica Acta, 2017, 245, 424-429.	2.6	24
35	Synthesis of bimetallic sulfide FeCoS4@carbon nanotube graphene hybrid as a high-performance anode material for sodium-ion batteries. Chemical Engineering Journal, 2021, 423, 130070.	6.6	23
36	Tin phosphide-carbon composite as a high-performance anode active material for sodium-ion batteries with high energy density. Journal of Energy Chemistry, 2022, 64, 463-474.	7.1	23

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37	Hydrogenated Anatase and Rutile TiO₂ for Sodium-Ion Battery Anodes. ACS Applied Energy Materials, 2021, 4, 5738-5746.	2.5	22
38	Thermal stability of silicon negative electrode for Li-ion batteries. Journal of Power Sources, 2012, 203, 78-83.	4.0	20
39	Electrochemical Performance of a Novel Cathode material “LiFeOF” for Li-ion Batteries. Electrochemistry, 2015, 83, 885-888.	0.6	19
40	What determines the critical size for phase separation in LiFePO4 in lithium ion batteries?. Journal of Materials Chemistry A, 2013, 1, 14532.	5.2	18
41	Tavorite LiFePO4OH hydroxyphosphate as an anode for aqueous lithium-ion batteries. Journal of Power Sources, 2019, 429, 17-21.	4.0	18
42	Local structure of a highly concentrated NaClO4 aqueous solution-type electrolyte for sodium ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 26452-26458.	1.3	18
43	Electrochemical Properties of Trirutile-type Li2TiF6 as Cathode Active Material in Li-ion Batteries. Electrochemistry, 2010, 78, 471-474.	0.6	17
44	Discharge and Charge Reaction of Perovskite-type <i>M</i>F₃ (<i>M</i> = Fe and Ti) Cathodes for Lithium-ion Batteries. Electrochemistry, 2017, 85, 472-477.	0.6	17
45	Cathode Properties of Na3FePO4CO3 Prepared by the Mechanical Ball Milling Method for Na-ion Batteries. Scientific Reports, 2020, 10, 3278.	1.6	15
46	Orthorhombic Lithium Titanium Phosphate as an Anode Material for Li-ion Rechargeable Battery. Electrochimica Acta, 2015, 174, 516-520.	2.6	14
47	A single-phase all-solid-state lithium battery based on Li_{1.5}Cr_{0.5}Ti_{1.5}(PO₄)₃ for high rate capability and low temperature operation. Chemical Communications, 2018, 54, 3178-3181.	2.2	14
48	Amorphous xLiF-FeSO4 (1â€¯â‰â€¯xâ€¯â‰â€¯2) composites as a cathode material for lithium ion batteries. Solid State Ionics, 2018, 326, 48-51.	1.3	14
49	Thermal characteristics of nongraphitizable carbon negative electrodes with electrolyte in Li-ion batteries. Electrochimica Acta, 2009, 55, 125-130.	2.6	13
50	Proton-Driven Intercalation and Ion Substitution Utilizing Solid-State Electrochemical Reaction. Journal of the American Chemical Society, 2017, 139, 17987-17993.	6.6	13
51	SnSb Alloy Blended with Hard Carbon as Anode for Na-Ion Batteries. Energies, 2018, 11, 1614.	1.6	13
52	Metalâ€organic Framework of [Cu₂(BIPAâ€TC)(DMA)₂]n: A Promising Anode Material for Lithiumâ€Ion Battery. ChemistrySelect, 2020, 5, 4160-4164.	0.7	13
53	Singleâ€Phase Allâ€Solidâ€State Lithiumâ€Ion Battery Using Li₃V₂(PO₄)₃ as the Cathode, Anode, and Electrolyte. ChemistrySelect, 2017, 2, 7925-7929.	0.7	12
54	Amorphous <i>x</i>NaF-FeSO₄ Systems (1 â‰ <i>x</i> â‰ 2) with Excellent Cathode Properties for Sodium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 5968-5974.	2.5	12

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55	Allâ€Solidâ€State Chlorideâ€Ion Battery with Inorganic Solid Electrolyte. ChemElectroChem, 2021, 8, 4441-4444.	1.7	12
56	Discharge Reaction Mechanisms in Na/FeS₂ Batteries: First-Principles Calculations. Journal of the Physical Society of Japan, 2015, 84, 124709.	0.7	11
57	Insight into Mg-doping effects on Na3Ni2SbO6 cathode host for Na-ion batteries. Materials Letters, 2016, 183, 187-190.	1.3	11
58	Electrochemical properties of titanium fluoride with high rate capability for lithium-ion batteries. Journal of Power Sources, 2019, 419, 1-5.	4.0	11
59	Synthesis and Electrochemical Properties of Fe₃C-carbon Composite as an Anode Material for Lithium-ion Batteries. Electrochemistry, 2017, 85, 630-633.	0.6	10
60	A Trifluoroacetate-based Concentrated Electrolyte for Symmetrical Aqueous Sodium-ion Battery with NASICON-type Na₂VTi(PO₄)₃ Electrodes. Electrochemistry, 2021, 89, 415-419.	0.6	10
61	High capacity all-solid-state lithium battery enabled by <i>in situ</i> formation of an ionic conduction path by lithiation of MgH₂. RSC Advances, 2022, 12, 10749-10754.	1.7	10
62	Electrochemical Alkali Metal Intercalation into the 3D-framework of MP₂O₇ (M = Mo, W). Electrochemistry, 2003, 71, 308-312.	0.6	9
63	Improvement of the Stability of LiPF₆ Electrolytes toward Water by the Addition of LiCl. Electrochemistry, 2003, 71, 1139-1141.	0.6	9
64	Electrochemical Properties and Thermal Stability of Silicon Monoxide Anode for Rechargeable Lithium-Ion Batteries. Electrochemistry, 2016, 84, 574-577.	0.6	9
65	Thermal Stability of Methyl Difluoroacetate as a Novel Electrolyte Solvent for Lithium Batteries Electrolytes. Electrochemistry, 2003, 71, 1154-1156.	0.6	8
66	Evaluation of Î±₁-LiVOPO₄, Î²-LiVOPO₄, and Î±-LiVOPO₄ Synthesized from a Same Precursor by Hydrothermal Method. Journal of the Electrochemical Society, 2019, 166, A3731-A3738.	1.3	8
67	Cathode Properties of Na3MnPO4CO3 Prepared by the Mechanical Ball Milling Method for Na-Ion Batteries. Energies, 2019, 12, 4534.	1.6	8
68	Cathode properties of Mn-doped inverse spinels for Li-ion battery. Journal of Power Sources, 2013, 244, 658-662.	4.0	7
69	Reconversion Reaction of LiF/Fe Composite Thin Film Cathodes for Lithium-Ion Battery. Electrochemistry, 2015, 83, 909-913.	0.6	7
70	Cathode properties of FeF3â€“V2O5 Glass/C for lithium-ion batteries. Journal of Alloys and Compounds, 2021, 856, 157449.	2.8	7
71	Effects of Mnâ€Doping on the Structural and Electrochemical Properties of Na 3 Ni 2 SbO 6 for Sodiumâ€Ion Battery.. Batteries and Supercaps, 2020, 3, 402-408.	2.4	6
72	The <i>in situ</i> formation of an electrolyte <i>via</i> the lithiation of Mg(BH₄)₂ in an all-solid-state lithium battery. Chemical Communications, 2021, 57, 2605-2608.	2.2	6

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73	Enhanced high voltage performance of LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂ cathode <i>via</i> the synergistic effect of LiPO₂F₂ and FEC in fluorinated electrolyte for lithium-ion batteries. RSC Advances, 2021, 11, 7886-7895.	1.7	6
74	MÃ¶ssbauer study of new vanadate glass with large charge-discharge capacity. Hyperfine Interactions, 2014, 226, 765-770.	0.2	5
75	Enhanced Performance of Yolk-Shell Structured Si-PPy Composite as an Anode for Lithium Ion Batteries. Electrochemistry, 2015, 83, 1067-1070.	0.6	5
76	Suppression Mechanism for Dissolution of Conversion-Type CuCl₂ Electrode in LiPF₆/methyl Difluoroacetate Electrolyte. Journal of the Electrochemical Society, 2019, 166, A568-A573.	1.3	5
77	Electrochemical Performance and Thermal Stability of Iron Oxyfluoride (FeOF) for Sodium-Ion Batteries. Batteries, 2018, 4, 68.	2.1	4
78	Effect of Li₃BO₃ addition to NASICON-type single-phase all-solid-state lithium battery based on Li_{1.5}Cr_{0.5}Ti_{1.5}(PO₄)₃. Journal of the Ceramic Society of Japan, 2019, 127, 18-21.	0.5	4
79	An experimental and first-principle investigation of the Ca-substitution effect on P3-type layered Na_xCoO₂. Chemical Communications, 2020, 56, 8107-8110.	2.2	4
80	Effect of Na₃BO₃ Addition into Na₃V₂(PO₄)₃ Single-Phase All-Solid-State Batteries. Electrochemistry, 2021, 89, 244-249.	0.6	4
81	Development of electrically conductive ZrO2-CaO-Fe2O3-V2O5 glass and glass-ceramics as a new cathode active material for Na-ion batteries with high performance. Journal of Alloys and Compounds, 2022, 899, 163309.	2.8	4
82	Capacity improvement by deficit of transition metals in inverse spinel LiNi1/3Co1/3Mn1/3VO4 cathodes. Journal of Power Sources, 2016, 302, 240-246.	4.0	3
83	Thermal Characteristics of Conversion-Type FeOF Cathode in Li-ion Batteries. Batteries, 2017, 3, 33.	2.1	3
84	Singleâ€phase Allâ€solidâ€state Silver Battery using Ag_{1.5}Cr_{0.5}Ti_{1.5}(PO₄)₃ as Anode, Cathode, and Electrolyte. ChemistrySelect, 2018, 3, 9965-9968.	0.7	3
85	Improved Electrochemical Properties of LiCoO₂ via Ni, Mn Co-doping from LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ for Rechargeable Lithium-ion Batteries. Electrochemistry, 2020, 88, 295-299.	0.6	3
86	Prussian Blueâ€Type Electrodes: Over 2 V Aqueous Sodiumâ€Ion Battery with Prussian Blueâ€Type Electrodes (Small Methods 4/2019). Small Methods, 2019, 3, 1970010.	4.6	2
87	Enhanced electrochemical performance of Li_{2.72}Na_{0.31}MnPO₄CO₃as a cathode material in â€œwater-in-saltâ€electrolytes. Chemical Communications, 2021, 57, 12840-12843.	2.2	2
88	Thermal risk evaluation of concentrated electrolytes for Li-ion batteries. Journal of Power Sources Advances, 2021, 12, 100079.	2.6	2
89	A Bicontinuous Nanostructure Induced in Lithiated Iron Fluoride Electrodes of Lithium-ion Batteries Investigated by Small-Angle X-ray Scattering. Electrochemistry, 2022, 90, 077007-077007.	0.6	2
90	57Fe Moessbauer and DTA study of R2O 2FeO V2O5 P2O5 glasses (R = Li, Na). Journal of the Ceramic Society of Japan, 2008, 116, 637-640.	0.5	1

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91	From Information Technology to Energy Technology. Electrochemistry, 2019, 87, 246-246.	0.6	1
92	Eldfellite-type cathode material, NaV(SO₄)₂, for Na-ion batteries. Materials Advances, 2022, 3, 6993-7001.	2.6	1
93	Effect of Na₃BO₃ Addition into Na₃V₂(PO₄)₃ Single-Phase All-Solid-State Batteries (Vol. 89, No. 3, 244â€“249). Electrochemistry, 2022, 90, 019001-019001.	0.6	0
94	High-Voltage Cathode Properties of Cr-Containing Fluorophosphate Materials for Sodium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 525-525.	0.0	0
95	An Aqueous Symmetrical Sodium-Ion Battery Using New Concentrated Sodium Trifluoroacetate Electrolyte. ECS Meeting Abstracts, 2020, MA2020-02, 524-524.	0.0	0
96	Hydrothermal Synthesis and the Cathode Properties of Na₃MPO₄CO₃ (M = Fe, Mn, Ni, Co) with Highly Concentrated Aqueous Electrolyte. ECS Meeting Abstracts, 2020, MA2020-02, 62-62.	0.0	0
97	Synthesis and the Cathode Properties of Na₃Fe₃(PO₄)₄ for Sodium-Ion Battery. ECS Meeting Abstracts, 2020, MA2020-02, 93-93.	0.0	0
98	Effect of Na3BO3 Addition to Nasicon-Type Na3V2(PO4)3 single-Phase All-Solid-State Battery. ECS Meeting Abstracts, 2020, MA2020-02, 3498-3498.	0.0	0
99	All-Solid-State Lithium Battery Using Mg(BH4)2 As an Electrode. ECS Meeting Abstracts, 2020, MA2020-02, 3499-3499.	0.0	0
100	Aqueous Na-Ion/ K-Ion Battery with Cyano-Bridged MOF Cathode and Bis(pyrazolate)-Bridged MOF Anode. ECS Meeting Abstracts, 2020, MA2020-02, 3497-3497.	0.0	0
101	Exploring the Sodiumâ€Storage Mechanism of Nanosized Disodium Rhodizonate as the Anode Active Material. Advanced Sustainable Systems, 2022, 6, .	2.7	0