

Kei Kubota

List of Publications by Year in descending order

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107
papers

14,856
citations

71102

41
h-index

42399

92
g-index

110
all docs

110
docs citations

110
times ranked

10387
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode materials for K-ion batteries. , 2023, , 83-127.		3
2	Structural change and charge compensation mechanism for $\text{Li}_{1+x}(\text{Fe}_{0.1}\text{Ni}_{0.1}\text{Mn}_{0.8})_{1-x}\text{O}_2$ ($0 < x < 1/3$) positive electrode material during electrochemical activation. Materials Research Bulletin, 2022, 149, 111743.	5.2	0
3	Superconcentrated NaFSA [®] /KFSA Aqueous Electrolytes for 2 V-Class Dual-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 23507-23517.	8.0	7
4	Active material and interphase structures governing performance in sodium and potassium ion batteries. Chemical Science, 2022, 13, 6121-6158.	7.4	41
5	All-Solid-State Potassium Polymer Batteries Enabled by the Effective Pretreatment of Potassium Metal. ACS Energy Letters, 2022, 7, 2244-2246.	17.4	20
6	MgO [®] -Template Synthesis of Extremely High Capacity Hard Carbon for Na ⁺ -ion Battery. Angewandte Chemie - International Edition, 2021, 60, 5114-5120.	13.8	169
7	MgO [®] -Template Synthesis of Extremely High Capacity Hard Carbon for Na ⁺ -ion Battery. Angewandte Chemie, 2021, 133, 5174-5180.	2.0	11
8	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
9	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
10	Effect of Particle Size and Anion Vacancy on Electrochemical Potassium Ion Insertion into Potassium Manganese Hexacyanoferrates. ChemSusChem, 2021, 14, 1166-1175.	6.8	31
11	Phase evolution of electrochemically potassium intercalated graphite. Journal of Materials Chemistry A, 2021, 9, 11187-11200.	10.3	27
12	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
13	Comparison of Ionic Transport Properties of Non-Aqueous Lithium and Sodium Hexafluorophosphate Electrolytes. Journal of the Electrochemical Society, 2021, 168, 040538.	2.9	24
14	$\text{Na}_3\text{V}_2\text{O}_2(\text{PO}_4)_2\text{F}_3$ as a stable positive electrode for potassium-ion batteries. Journal of Power Sources, 2021, 493, 229676.	7.8	10
15	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
16	Impact of Mg and Ti doping in O_3 type $\text{NaNi}_{1/2}\text{Mn}_{1/2}\text{O}_2$ on reversibility and phase transition during electrochemical Na intercalation. Journal of Materials Chemistry A, 2021, 9, 12830-12844.	10.3	32
17	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
18	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

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19	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. <i>Journal of the Electrochemical Society</i> , 2021, 168, 110505.	2.9	3
20	Structural change induced by electrochemical sodium extraction from layered O ₃ -NaMnO ₂ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 26810-26819.	10.3	10
21	Development of advanced electrolytes in Na-ion batteries: application of the Red Moon method for molecular structure design of the SEI layer. <i>RSC Advances</i> , 2021, 12, 971-984.	3.6	14
22	High-Capacity Hard Carbon Synthesized from Macroporous Phenolic Resin for Sodium-Ion and Potassium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 135-140.	5.1	113
23	Elucidating Influence of Mg and Cu Doping on Electrochemical Properties of O ₃ -Na _x [Fe,Mn]O ₂ for Na-Ion Batteries. <i>Small</i> , 2020, 16, e2006483.	10.0	24
24	KFSA/glyme electrolytes for 4 V-class K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23766-23771.	10.3	26
25	Impact of Newly Developed Styrene-Butadiene Rubber Binder on the Electrode Performance of High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Electrode. <i>ACS Applied Energy Materials</i> , 2020, 3, 7978-7987.	5.1	22
26	Development of KPF ₆ /KFSA Binary-Salt Solutions for Long-Life and High-Voltage K-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34873-34881.	8.0	62
27	Application of Ionic Liquid as K-Ion Electrolyte of Graphite//K ₂ Mn[Fe(CN) ₆] Cell. <i>ACS Energy Letters</i> , 2020, 5, 2849-2857.	17.4	51
28	Structural Investigation of Quaternary Layered Oxides upon Na-Ion Deinsertion. <i>Inorganic Chemistry</i> , 2020, 59, 7408-7414.	4.0	9
29	Application of modified styrene-butadiene-rubber-based latex binder to high-voltage operating LiCoO ₂ composite electrodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 468, 228332.	7.8	27
30	Structural Analysis of Sucrose-Derived Hard Carbon and Correlation with the Electrochemical Properties for Lithium, Sodium, and Potassium Insertion. <i>Chemistry of Materials</i> , 2020, 32, 2961-2977.	6.7	150
31	Research Development on K-Ion Batteries. <i>Chemical Reviews</i> , 2020, 120, 6358-6466.	47.7	804
32	Electrochemistry and Solid-State Chemistry of Layered Oxides for Li-, Na-, and K-Ion Batteries. <i>Electrochemistry</i> , 2020, 88, 507-514.	1.4	12
33	(Invited) Research Development on K-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 25-25.	0.0	0
34	Effect of Particle Size and Anion Vacancies on Electrochemical Performances of Potassium Manganese Hexacyanoferrate for Potassium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 170-170.	0.0	0
35	(Invited) Sodium Insertion Carbon Materials As "Beyond Li-GIC". <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 559-559.	0.0	0
36	Stable and Unstable Diglyme-Based Electrolytes for Batteries with Sodium or Graphite as Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32844-32855.	8.0	77

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37	A Layered Inorganic-Organic Open Framework Material as a 4 V Positive Electrode with High-Rate Performance for K-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902528.	19.5	37
38	Application of Acrylic-Rubber-Based Latex Binder to High-Voltage Spinel Electrodes of Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5070-5079.	3.4	23
39	Correlation of carbonization condition with metallic property of sodium clusters formed in hard carbon studied using ²³ Na nuclear magnetic resonance. <i>Carbon</i> , 2019, 145, 712-715.	10.3	33
40	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. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5430-A5436.	2.9	9
41	Optimizing Micrometer-Sized Sn Powder Composite Electrodes for Sodium-Ion Batteries. <i>Electrochemistry</i> , 2019, 87, 70-77.	1.4	4
42	Potassium Metal as Reliable Reference Electrodes of Nonaqueous Potassium Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3296-3300.	4.6	93
43	States of thermochemically or electrochemically synthesized Na _x Py compounds analyzed by solid state ²³ Na and ³¹ P nuclear magnetic resonance with theoretical calculation. <i>Journal of Power Sources</i> , 2019, 413, 418-424.	7.8	11
44	Polyanionic Compounds for Potassium-Ion Batteries. <i>Chemical Record</i> , 2019, 19, 735-745.	5.8	102
45	From Lithium to Sodium and Potassium Batteries. , 2019, , 181-219.		1
46	KPF6-KFSA Binary Salt Electrolytes for 4 V-Class Potassium Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
47	(Invited) On the NaMeO ₂ (Me = 3d metal) for Na-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
48	2 V-Class Aqueous Multi-Ion Batteries Realized By Superconcentrated Na/K Electrolytes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
49	(Keynote) Polyanionic Compounds for K-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
50	K ₂ [(VO) ₂ (HPO ₄) ₂ (C ₂ O ₄)] and K _x VOPO ₄ as 4 V-Class Positive Electrode Materials for K-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
51	(Invited) Functional Binders for Li-, Na-, and K-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
52	Poly- ¹³ -glutamate Binder To Enhance Electrode Performances of P ₂ -Na _{2/3} Ni _{1/3} Mn _{2/3} O ₂ for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10986-10997.	8.0	53
53	Effect of diphenylethane as an electrolyte additive to enhance high-temperature durability of LiCoO ₂ /graphite cells. <i>Electrochimica Acta</i> , 2018, 270, 120-128.	5.2	7
54	Towards K-Ion and Na-Ion Batteries as "Beyond Li-Ion". <i>Chemical Record</i> , 2018, 18, 459-479.	5.8	665

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55	Unraveling the Role of Doping in Selective Stabilization of NaMnO ₂ Polymorphs: Combined Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2018, 30, 1257-1264.	6.7	24
56	Synthesis and electrochemical properties of Na-rich Prussian blue analogues containing Mn, Fe, Co, and Fe for Na-ion batteries. <i>Journal of Power Sources</i> , 2018, 378, 322-330.	7.8	120
57	Synthesis and Electrochemical Performance of C-Base-Centered Lepidocrocite-like Titanates for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 3630-3635.	5.1	12
58	Concentration Effect of Fluoroethylene Carbonate on the Formation of Solid Electrolyte Interphase Layer in Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28525-28532.	8.0	66
59	Highly concentrated electrolyte solutions for 4 V class potassium-ion batteries. <i>Chemical Communications</i> , 2018, 54, 8387-8390.	4.1	159
60	Synthesizing higher-capacity hard-carbons from cellulose for Na- and K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16844-16848.	10.3	131
61	Electrochemistry and Solid-state Chemistry of NaMeO ₂ (Me = 3d Transition Metals). <i>Advanced Energy Materials</i> , 2018, 8, 1703415.	19.5	255
62	A novel K-ion battery: hexacyanoferrate(II)/graphite cell. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4325-4330.	10.3	396
63	Synthesis of hard carbon from argan shells for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9917-9928.	10.3	224
64	KVPO ₄ F and KVOPO ₄ toward 4 volt-class potassium-ion batteries. <i>Chemical Communications</i> , 2017, 53, 5208-5211.	4.1	262
65	P2- and P3-K _x CoO ₂ as an electrochemical potassium intercalation host. <i>Chemical Communications</i> , 2017, 53, 3693-3696.	4.1	214
66	P ₂ -Na _{2/3} Mn _{0.9} Me _{0.1} O ₂ (Me = Mg, Ti, Co, Ni, Cu, and Tj) for Na-ion Batteries. <i>Journal of Materials</i> , 2017, 29, 8958-8962.	6.7	124
67	Origin of Enhanced Capacity Retention of P2-Type Na _{2/3} Ni _{1/3} -xMn _{2/3} Cu _x O ₂ for Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2368-A2373.		62
68	Computed Tomography Demonstration of the Production and Distribution of Oxygen Gas Following Intratumoral Injection of a New Radiosensitizer (KORTUC) for Patients with Breast Cancer—Is Intratumoral Injection Not an Ideal Approach to Solve the Major Problem of Tumor Hypoxia in Radiotherapy?. <i>Cancers</i> , 2016, 8, 43.	3.7	6
69	Understanding the Structural Evolution and Redox Mechanism of a NaFeO ₂ -NaCoO ₂ Solid Solution for Sodium-ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 6047-6059.	14.9	132
70	Sodium and Manganese Stoichiometry of P2-Type Na _{2/3} MnO ₂ . <i>Angewandte Chemie</i> , 2016, 128, 12952-12955.	2.0	41
71	Structural change during charge/discharge for iron substituted lithium manganese oxide. <i>Journal of Power Sources</i> , 2016, 318, 18-25.	7.8	13
72	Preparation and electrochemical properties of Li ₂ MoO ₃ /C composites for rechargeable Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28556-28563.	2.8	19

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73	Effect of Hexafluorophosphate and Fluoroethylene Carbonate on Electrochemical Performance and the Surface Layer of Hard Carbon for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 1856-1867.	3.4	147
74	Sodium and Manganese Stoichiometry of P2-type $\text{Na}_{2/3}\text{MnO}_2$. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12760-12763.	13.8	217
75	Combination of solid state NMR and DFT calculation to elucidate the state of sodium in hard carbon electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13183-13193.	10.3	83
76	Thermal Stability of Na_xCrO_2 for Rechargeable Sodium Batteries; Studies by High-Temperature Synchrotron X-ray Diffraction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32292-32299.	8.0	36
77	Black Phosphorus as a High-Capacity, High-Capability Negative Electrode for Sodium-Ion Batteries: Investigation of the Electrode/Electrolyte Interface. <i>Chemistry of Materials</i> , 2016, 28, 1625-1635.	6.7	238
78	Understanding Particle-Size-Dependent Electrochemical Properties of Li_2MnO_3 -Based Positive Electrode Materials for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 875-885.	3.1	77
79	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
80	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
81	Review—Practical Issues and Future Perspective for Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2538-A2550.	2.9	579
82	Non-Surgical Breast-Conserving Treatment (KORTUC-BCT) Using a New Radiosensitization Method (KORTUC II) for Patients with Stage I or II Breast Cancer. <i>Cancers</i> , 2015, 7, 2277-2289.	3.7	17
83	Layered oxides as positive electrode materials for Na-ion batteries. <i>MRS Bulletin</i> , 2014, 39, 416-422.	3.5	208
84	Study of electrochemical alkali insertion into carbonaceous materials. , 2014, , .		1
85	P2-type $\text{Na}_x[\text{Fe,Ni,Mn}]\text{O}_2$ for high capacity Na-ion batteries. , 2014, , .		0
86	Rechargeable Na-ion batteries for large format applications. , 2014, , .		0
87	New O2/P2-type Li-Excess Layered Manganese Oxides as Promising Multi-Functional Electrode Materials for Rechargeable Li/Na Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301453.	19.5	307
88	Research Development on Sodium-Ion Batteries. <i>Chemical Reviews</i> , 2014, 114, 11636-11682.	47.7	4,970
89	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. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16851-16855.	10.3	284
90	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. <i>Chemical Communications</i> , 2014, 50, 3677-3680.	4.1	334

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91	Negative electrodes for Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15007.	2.8	555
92	High-pressure synthesis and electrochemical properties of lithium transition metal oxides with layered rock-salt structure. <i>Journal of Power Sources</i> , 2014, 252, 1-7.	7.8	4
93	Sodium carboxymethyl cellulose as a potential binder for hard-carbon negative electrodes in sodium-ion batteries. <i>Electrochemistry Communications</i> , 2014, 44, 66-69.	4.7	182
94	Na ₂ CoPO ₄ F as a High-voltage Electrode Material for Na-ion Batteries. <i>Electrochemistry</i> , 2014, 82, 909-911.	1.4	49
95	Early prediction of response to neoadjuvant chemotherapy in patients with breast cancer using diffusion-weighted imaging and gray-scale ultrasonography. <i>Oncology Reports</i> , 2014, 31, 1555-1560.	2.6	35
96	Direct synthesis of oxygen-deficient Li ₂ MnO ₃ for high capacity lithium battery electrodes. <i>Journal of Power Sources</i> , 2012, 216, 249-255.	7.8	113
97	Correlation of liver parenchymal gadolinium-ethoxybenzyl diethylenetriaminepentaacetic acid enhancement and liver function in humans with hepatocellular carcinoma. <i>Oncology Letters</i> , 2012, 3, 990-994.	1.8	29
98	Synthesis and electrochemical properties of nanosized LiFeO ₂ particles with a layered rocksalt structure for lithium batteries. <i>Materials Research Bulletin</i> , 2012, 47, 79-84.	5.2	21
99	Synthesis and electrode characteristics of solid solution LiMn _{1-x} Fe _x PO ₄ (OH) (0 ≤ x ≤ 0.3) with tavorite structure for lithium batteries. <i>Journal of Power Sources</i> , 2012, 205, 394-401.	7.8	4
100	Safety and effectiveness of a new enzyme-targeting radiosensitization treatment (KORTUC II) for intratumoral injection for low-LET radioresistant tumors. <i>International Journal of Oncology</i> , 2011, 39, 553-60.	3.3	22
101	Power Doppler and gray-scale sonography standardized by BI-RADS for the differentiation of benign postoperative lesion and local recurrence after breast-conserving therapy. <i>Oncology Reports</i> , 2011, 26, 1357-62.	2.6	3
102	Structure and electrode reactions of layered rocksalt LiFeO ₂ nanoparticles for lithium battery cathode. <i>Journal of Power Sources</i> , 2011, 196, 6809-6814.	7.8	50
103	Evaluation of Changes in Tumor Shadows and Microcalcifications on Mammography Following KORTUC II, a New Radiosensitization Treatment without any Surgical Procedure for Elderly Patients with Stage I and II Breast Cancer. <i>Cancers</i> , 2011, 3, 3496-3505.	3.7	7
104	Role of diffusion-weighted imaging in evaluating therapeutic efficacy after transcatheter arterial chemoembolization for hepatocellular carcinoma. <i>Oncology Reports</i> , 2010, 24, 727-32.	2.6	41
105	Phase I study of a new radiosensitizer containing hydrogen peroxide and sodium hyaluronate for topical tumor injection: A new enzyme-targeting radiosensitization treatment, Kochi Oxydol-Radiation Therapy for Unresectable Carcinomas, Type II (KORTUC II). <i>International Journal of Oncology</i> , 2009, 34, 609-18.	3.3	33
106	Diagnostic accuracy of mammography, ultrasonography and magnetic resonance imaging in the detection of intraductal spread of breast cancer following neoadjuvant chemotherapy. <i>Oncology Reports</i> , 2007, 17, 915-8.	2.6	3
107	Facile Material Design Concept for Co-Free Lithium Excess Nickel-Manganese Oxide as High-Capacity Positive Electrode Material. <i>Journal of the Electrochemical Society</i> , 0, , .	2.9	2