

# Kentaro Kuratani

## List of Publications by Year in descending order

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34  
papers

2,138  
citations

430874

18  
h-index

395702

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

3931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheological interpretation of the structural change of LiB cathode slurry during the preparation process. <i>Jcis Open</i> , 2022, 5, 100038.	3.2	12
2	Identification of Soluble Degradation Products in Lithium-Sulfur and Lithium-Metal Sulfide Batteries. <i>Separations</i> , 2022, 9, 57.	2.4	0
3	Anion Redox in an Amorphous Titanium Polysulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 33191-33199.	8.0	1
4	A systematic study on structure, ionic conductivity, and air-stability of $x\text{Li}_4\text{SnS}_4 \cdot (1-x)\text{Li}_3\text{PS}_4$ solid electrolytes. <i>Ceramics International</i> , 2021, 47, 28377-28383.	4.8	14
5	Mechanochemical synthesis of air-stable hexagonal $\text{Li}_4\text{Sn}_4$ -based solid electrolytes containing $\text{LiI}$ and $\text{Li}_3\text{PS}_4$ . <i>RSC Advances</i> , 2021, 11, 38880-38888.	3.6	6
6	Dry coating of active material particles with sulfide solid electrolytes for an all-solid-state lithium battery. <i>Journal of Power Sources</i> , 2020, 448, 227579.	7.8	50
7	Elucidation of Capacity Degradation for Graphite in Sulfide-Based All-Solid-State Lithium Batteries: A Void Formation Mechanism. <i>ACS Applied Energy Materials</i> , 2020, 3, 5472-5478.	5.1	13
8	Morphological Effect on Reaction Distribution Influenced by Binder Materials in Composite Electrodes for Sheet-type All-Solid-State Lithium-Ion Batteries with the Sulfide-based Solid Electrolyte. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3292-3298.	3.1	53
9	Controlling of Dispersion State of Particles in Slurry and Electrochemical Properties of Electrodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A501-A506.	2.9	30
10	Preparation of Highly Oriented Porous $\text{LiCoO}_2$ Crystal Films via Li-Vapor Crystal Growth Method. <i>Crystal Growth and Design</i> , 2019, 19, 150-156.	3.0	2
11	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. <i>Scientific Reports</i> , 2018, 8, 15086.	3.3	21
12	All-Solid-State Battery Electrode Sheets Prepared by a Slurry Coating Process. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2474-A2478.	2.9	125
13	A Monte-Carlo simulation of ionic conductivity and viscosity of highly concentrated electrolytes based on a pseudo-lattice model. <i>Journal of Chemical Physics</i> , 2017, 147, 034904.	3.0	5
14	Cubic Rocksalt $\text{Li}_2\text{Sn}_3$ and a Solid Solution with $\text{Li}_3\text{NbS}_4$ Prepared by Mechanochemical Synthesis. <i>Electrochemistry</i> , 2017, 85, 580-584.	1.4	11
15	Monte-Carlo Simulation of the Ionic Transport of Electrolyte Solutions at High Concentrations Based on the Pseudo-Lattice Model. <i>Journal of the Electrochemical Society</i> , 2016, 163, H576-H583.	2.9	6
16	Transport Phenomena of Nonaqueous Electrolyte Solutions at High Concentrations: A Comparison between the Li- and Na-Systems. <i>Journal of the Electrochemical Society</i> , 2016, 163, H417-H425.	2.9	14
17	Design of a Sodium-ion Cell with a Carbon-free $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Negative Electrode. <i>Electrochemistry</i> , 2015, 83, 989-992.	1.4	11
18	Influence of the preparation methods on the electrochemical properties and structural changes of alpha-sodium iron oxide as a positive electrode material for rechargeable sodium batteries. <i>Electrochimica Acta</i> , 2015, 182, 871-877.	5.2	14

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19	Sulfone-Based Electrolyte Solutions for Rechargeable Magnesium Batteries Using 2,5-Dimethoxy-1,4-benzoquinone Positive Electrode. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1315-A1320.	2.9	47
20	Irreversible structural change of a spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> particle via Na insertion-extraction cycles of a sodium-ion battery. <i>Electrochimica Acta</i> , 2014, 148, 175-179.	5.2	30
21	Indigo carmine: An organic crystal as a positive-electrode material for rechargeable sodium batteries. <i>Scientific Reports</i> , 2014, 4, 3650.	3.3	109
22	Conductivity, viscosity and density of MClO <sub>4</sub> (M=Li and Na) dissolved in propylene carbonate and $\gamma$ -butyrolactone at high concentrations. <i>Journal of Power Sources</i> , 2013, 223, 175-182.	7.8	80
23	Na-ion capacitor using sodium pre-doped hard carbon and activated carbon. <i>Electrochimica Acta</i> , 2012, 76, 320-325.	5.2	104
24	Converting rice husk activated carbon into active material for capacitor using three-dimensional porous current collector. <i>Journal of Power Sources</i> , 2011, 196, 10788-10790.	7.8	56
25	From Metal-Organic Framework to Nanoporous Carbon: Toward a Very High Surface Area and Hydrogen Uptake. <i>Journal of the American Chemical Society</i> , 2011, 133, 11854-11857.	13.7	1,071
26	Capacitive behavior of amorphous and crystalline RuO <sub>2</sub> composite electrode fabricated by spark plasma sintering technique. <i>Journal of Power Sources</i> , 2011, 196, 7878-7881.	7.8	12
27	One-compartment electrochemical H <sub>2</sub> generator from borohydride. <i>Journal of Power Sources</i> , 2010, 195, 1107-1111.	7.8	10
28	Influence of the mesoporous structure on capacitance of the RuO <sub>2</sub> electrode. <i>Journal of Power Sources</i> , 2009, 189, 1284-1291.	7.8	41
29	Binderless fabrication of amorphous RuO <sub>2</sub> electrode for electrochemical capacitor using spark plasma sintering technique. <i>Journal of Power Sources</i> , 2009, 191, 684-687.	7.8	21
30	Hydrogen production via steam reforming of ethyl alcohol over nano-structured indium oxide catalysts. <i>Journal of Power Sources</i> , 2008, 179, 566-570.	7.8	48
31	Manganese Oxide Nanorod with 2–4 Tunnel Structure: Synthesis and Electrochemical Properties. <i>Crystal Growth and Design</i> , 2007, 7, 1375-1377.	3.0	45
32	Synthesis and luminescence property of Eu <sup>3+</sup> /ZrO <sub>2</sub> thin film by the liquid phase deposition method. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 711-716.	5.5	28
33	Novel Fabrication of High-Quality ZrO <sub>2</sub> Ceramic Thin Films from Aqueous Solution. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2923-2927.	3.8	30
34	Aqueous solution-based synthesis of rare earth-doped metal oxide thin films. <i>Thin Solid Films</i> , 2004, 460, 83-86.	1.8	18