

# Kei Nishikawa

## List of Publications by Year in descending order

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47  
papers

1,064  
citations

471509

17  
h-index

434195

31  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Phase Change and Cu Doping on the Li Storage Properties of Rutile TiO <sub>2</sub> . <i>Electrochemistry</i> , 2022, 90, 037002-037002.	1.4	12
2	Effects of Carbonate Solvents and Lithium Salts in High-Concentration Electrolytes on Lithium Anode. <i>Journal of the Electrochemical Society</i> , 2022, 169, 060548.	2.9	5
3	In Situ Observation of Cu <sup>2+</sup> Concentration Profile During Cu Dissolution in Magnetic Field. <i>Journal of the Electrochemical Society</i> , 2021, 168, 031507.	2.9	5
4	Characterization of Electrodeposited Li Metal by Cryo-Scanning Transmission Electron Microscopy/Electron Energy Loss Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3922-3927.	4.6	15
5	Improvement of Preparation Scheme for Microelectrode and Single Particle Electrochemical Measurements of LiCoO <sub>2</sub> Interfaces Under Absence / Presence Chemical Additives. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 22-22.	0.0	0
6	Metallographic Structure Changes in Lanthanum Silicide/Silicon Nanocomposite Electrodes during Lithiation and Delithiation: Implications for Battery Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 8473-8481.	5.0	8
7	<i>In situ</i> interferometry study of ionic mass transfer phenomenon during the electrodeposition and dissolution of Li metal in solvate ionic liquids. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14700-14709.	10.3	9
8	Lithiation/Delithiation Properties of Lithium Silicide Electrodes in Ionic-Liquid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3816-3824.	8.0	15
9	3D Structural Transition of the Electrodeposited and Electrochemically Dissolved Li Metal onto an Ultramicroelectrode. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22019-22024.	3.1	8
10	Precise Analysis of Resistance Components and Estimation of Number of Particles in Li-Ion Battery Electrode Sheets Using LiCoO <sub>2</sub> Single-Particle Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16758-16762.	3.1	7
11	Reaction Behavior of a Silicide Electrode with Lithium in an Ionic-Liquid Electrolyte. <i>ACS Omega</i> , 2020, 5, 22631-22636.	3.5	12
12	Analysis of the Li Distribution in Si-Based Negative Electrodes for Lithium-Ion Batteries by Soft X-ray Emission Spectroscopy. <i>ACS Applied Energy Materials</i> , 2020, 3, 8619-8626.	5.1	18
13	Macroporous Mn <sub>3</sub> O <sub>4</sub> microspheres as a conversion-type anode material morphology for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1283-1290.	2.5	7
14	Conversion Reaction in the Binder-Free Anode for Fast-Charging Li-Ion Batteries Based on WO <sub>3</sub> Nanorods. <i>ACS Applied Energy Materials</i> , 2020, 3, 6700-6708.	5.1	20
15	In Situ Measurement of Al <sup>3+</sup> Concentration Profile during Al Anodization using Digital Holographic Interferometric Microscope. <i>Journal of the Electrochemical Society</i> , 2020, 167, 062501.	2.9	7
16	Asymmetry in the Solvation-Desolvation Resistance for Li Metal Batteries. <i>Analytical Chemistry</i> , 2020, 92, 3499-3502.	6.5	13
17	Electrochemical Lithiation and Delithiation Properties of FeSi <sub>2</sub> /Si Composite Electrodes in Ionic-Liquid Electrolytes. <i>Electrochemistry</i> , 2020, 88, 548-554.	1.4	10
18	Deterioration Analysis of Lithium Metal Anode in Full Cell during Long-Term Cycles. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2618-A2628.	2.9	13

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19	Effect of Frequency-Dependent Fresnel Factor on the Vibrational Sum Frequency Generation Spectra for Liquid/Solid Interfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15665-15673.	3.1	25
20	Surface State Change of Lithium Metal Anode in Full Cell during Long Term Cycles. <i>Electrochemistry</i> , 2019, 87, 84-88.	1.4	15
21	Holographic interferometric microscopy for measuring Cu <sup>2+</sup> concentration profile during Cu electrodeposition in a magnetic field. <i>Electrochimica Acta</i> , 2019, 297, 1104-1108.	5.2	22
22	Electrodeposition of Zn from 1-allyl-3-methylimidazolium bromide containing ZnBr <sub>2</sub> . <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 467-474.	3.8	7
23	Degradation Analysis of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> for Cathode Material of Lithium-Ion Battery Using Single-Particle Measurement. <i>ACS Applied Energy Materials</i> , 2018, 1, 4536-4544.	5.1	31
24	Intrinsic electrochemical characteristics of one LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> spinel particle. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 468-472.	3.8	20
25	Intrinsic Electrochemical Characteristics in the Individual Needle-like LiCoO <sub>2</sub> Crystals Synthesized by Flux Growth. <i>Electrochemistry</i> , 2017, 85, 72-76.	1.4	8
26	In-situ observation of volume expansion behavior of a silicon particle in various electrolytes. <i>Journal of Power Sources</i> , 2016, 302, 46-52.	7.8	27
27	Flux growth of hexagonal cylindrical LiCoO <sub>2</sub> crystals surrounded by Li-ion conducting preferential facets and their electrochemical properties studied by single-particle measurements. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17016-17021.	10.3	20
28	Optical observation of Li dendrite growth in ionic liquid. <i>Electrochimica Acta</i> , 2013, 100, 333-341.	5.2	85
29	In-situ observation of one silicon particle during the first charging. <i>Journal of Power Sources</i> , 2013, 243, 630-634.	7.8	36
30	Electrodeposition of metals in microgravity conditions. <i>Electrochimica Acta</i> , 2013, 100, 342-349.	5.2	11
31	Evolution of the Morphology of Electrodeposited Copper at the Early Stage of Dendritic Growth. <i>Journal of the Electrochemical Society</i> , 2013, 160, D183-D187.	2.9	13
32	Morphological Variation of Electrodeposited Li in Ionic Liquid. <i>ECS Transactions</i> , 2012, 41, 3-10.	0.5	14
33	Li dendrite growth and Li <sup>+</sup> ionic mass transfer phenomenon. <i>Journal of Electroanalytical Chemistry</i> , 2011, 661, 84-89.	3.8	101
34	Electrodeposition experiments in microgravity conditions. <i>Journal of Physics: Conference Series</i> , 2011, 327, 012045.	0.4	5
35	In situ concentration measurements around the transition between two dendritic growth regimes. <i>Electrochimica Acta</i> , 2011, 56, 5464-5471.	5.2	9
36	In Situ Observation of Dendrite Growth of Electrodeposited Li Metal. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1212.	2.9	123

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37	Three-dimensionally ordered macroporous Ni-Sn anode for lithium batteries. <i>Journal of Power Sources</i> , 2009, 189, 726-729.	7.8	72
38	Numerical Analysis of Ionic Mass Transfer Phenomena Accompanying Electrochemical Reactions in PC and Ionic Liquid. <i>Electrochemistry</i> , 2009, 77, 601-603.	1.4	2
39	Diffusivity Measurement of LiPF <sub>6</sub> , LiTFSI, LiBF <sub>4</sub> in PC. <i>ECS Transactions</i> , 2008, 6, 1-14.	0.5	38
40	Measurement of Concentration Profiles during Electrodeposition of Li Metal from LiPF <sub>6</sub> -PC Electrolyte Solution. <i>Journal of the Electrochemical Society</i> , 2007, 154, A943.	2.9	35
41	Measurement of concentration profile during charging of Li battery anode materials in LiClO <sub>4</sub> -PC electrolyte. <i>Electrochimica Acta</i> , 2007, 53, 218-223.	5.2	8
42	In situ measurement of lithium mass transfer during charging and discharging of a Ni-Sn alloy electrode. <i>Journal of Power Sources</i> , 2007, 174, 668-672.	7.8	16
43	Numerical simulation of transient natural convection induced by electrochemical reactions confined between vertical plane Cu electrodes. <i>Electrochimica Acta</i> , 2007, 53, 257-264.	5.2	24
44	Measurement of LiClO <sub>4</sub> Diffusion Coefficient in Propylene Carbonate by Moiré Pattern. <i>Journal of the Electrochemical Society</i> , 2006, 153, A830.	2.9	29
45	Ionic mass transfer during electrochemical dissolution of Li metal in PC electrolyte solution. <i>Journal of Electroanalytical Chemistry</i> , 2005, 584, 63-69.	3.8	20
46	Transient natural convection induced by electrodeposition of Li <sup>+</sup> ions onto a lithium metal vertical cathode in propylene carbonate. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 174-181.	2.5	17
47	Measurement of concentration boundary layer thickness development during lithium electrodeposition onto a lithium metal cathode in propylene carbonate. <i>Journal of Electroanalytical Chemistry</i> , 2003, 559, 175-183.	3.8	47