

# Misaki Katayama

## List of Publications by Year in descending order

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52  
papers

830  
citations

516710

16  
h-index

501196

28  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1287  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic Conduction in Lithium Ion Battery Composite Electrode Governs Cross-sectional Reaction Distribution. <i>Scientific Reports</i> , 2016, 6, 26382.	3.3	123
2	X-ray absorption fine structure imaging of inhomogeneous electrode reaction in LiFePO <sub>4</sub> lithium-ion battery cathode. <i>Journal of Power Sources</i> , 2014, 269, 994-999.	7.8	55
3	Combined adsorption and oxidation mechanisms of hydrogen sulfide on granulated coal ash. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 284-290.	9.4	51
4	A Comparison on Ce <sup>3+</sup> Luminescence in Borate Glass and YAG Ceramic: Understanding the Role of Host's Characteristics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17683-17691.	3.1	51
5	Mechanisms of Hydrogen Sulfide Removal with Steel Making Slag. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10169-10174.	10.0	49
6	Improvement of Cycle Capability of FeS <sub>2</sub> Positive Electrode by Forming Composites with Li <sub>2</sub> S for Ambient Temperature Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 159, A75-A84.	2.9	46
7	Removal of hydrogen sulfide using carbonated steel slag. <i>Chemical Engineering Journal</i> , 2013, 228, 843-849.	12.7	44
8	Lanthanide Complexes of Macrocyclic Polyoxovanadates by VO <sub>4</sub> Units: Synthesis, Characterization, and Structure Elucidation by X-ray Crystallography and EXAFS Spectroscopy. <i>Inorganic Chemistry</i> , 2012, 51, 784-793.	4.0	36
9	Crystalline maricite NaFePO <sub>4</sub> as a positive electrode material for sodium secondary batteries operating at intermediate temperature. <i>Journal of Power Sources</i> , 2018, 377, 80-86.	7.8	36
10	Thermoelectric Efficiency of Reduced SrTiO <sub>3</sub> Ceramics Modified with La and Nb. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2852-2856.	3.8	33
11	The Number of Water-Water Hydrogen Bonds in Water-Tetrahydrofuran and Water-Acetone Binary Mixtures Determined by Means of X-Ray Scattering. <i>Journal of Solution Chemistry</i> , 2008, 37, 841-856.	1.2	27
12	Incorporation of Bulk Proton Carriers in Cubic Perovskite Manganite Driven by Interplays of Oxygen and Manganese Redox. <i>Chemistry of Materials</i> , 2019, 31, 8383-8393.	6.7	26
13	Evidence of valence state change of Ce <sup>3+</sup> and Cr <sup>3+</sup> during UV charging process in Y <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> persistent phosphors. <i>Optical Materials Express</i> , 2017, 7, 2471.	3.0	24
14	Development of a two-dimensional imaging system of X-ray absorption fine structure. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 717-721.	2.4	22
15	Regeneration of manganese oxide as adsorption sites for hydrogen sulfide on granulated coal ash. <i>Chemical Engineering Journal</i> , 2014, 254, 531-537.	12.7	20
16	Effect of adding Au nanoparticles to TiO <sub>2</sub> films on crystallization, phase transformation, and photocatalysis. <i>Journal of Materials Research</i> , 2018, 33, 467-481.	2.6	19
17	Photoinduced anisotropic distortion as the electron trapping site of tungsten trioxide by ultrafast W L <sub>1</sub> -edge X-ray absorption spectroscopy with full potential multiple scattering calculations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2615-2621.	2.8	15
18	Vanadium diphosphide as a negative electrode material for sodium secondary batteries. <i>Journal of Power Sources</i> , 2021, 483, 229182.	7.8	14

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19	Liquid structure of benzene and its derivatives as studied by means of X-ray scattering. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 797-809.	1.2	12
20	Reevaluation of Donor Number Using Titration Calorimetry. <i>Analytical Sciences</i> , 2012, 28, 103-106.	1.6	11
21	Fabrication of Co/P25 coated with thin nitrogen-doped carbon shells (Co/P25/NC) as an efficient electrocatalyst for oxygen reduction reaction (ORR). <i>Electrochimica Acta</i> , 2019, 296, 867-873.	5.2	10
22	The Liquid Structure of Various Nitriles and N,N-Dimethylformamide Studied by the X-Ray Diffraction Method Using a CCD Detector. <i>Zeitschrift Fur Physikalische Chemie</i> , 2004, 218, 659-677.	2.8	9
23	Induced Fitting and Polarization of a Bromine Molecule in an Electrophilic Inorganic Molecular Cavity and Its Bromination Reactivity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14399-14403.	13.8	9
24	A highly-flexible cyclic-decavanadate ligand for interconversion of dinuclear- and trinuclear-cobalt( $\text{Co}_2$ ) and manganese( $\text{Mn}_2$ ) cores. <i>RSC Advances</i> , 2017, 7, 37666-37674.	3.6	8
25	Improvement of Cycle Capability of Fe-Substituted $\text{Li}_2\text{S}$ -Based Positive Electrode Materials by Doping with Lithium Iodide. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5231-A5236.	2.9	8
26	Kinetic Study on Solid-Phase Reduction of Silica-Supported Nickel Oxide Species. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1629-1635.	3.2	7
27	Particle size effect of redox reactions for Co species supported on silica. <i>Journal of Solid State Chemistry</i> , 2016, 241, 212-218.	2.9	7
28	Reduction Kinetics of Nickel Species Supported on Silica. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012051.	0.4	6
29	Analysis of Liquid Structure without Construction of Any Structure Models by the X-Ray Scattering Method. <i>Analytical Sciences</i> , 2007, 23, 929-936.	1.6	5
30	In situ two-dimensional micro-imaging XAFS with CCD detector. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012021.	0.4	5
31	In situ time-resolved dispersive X-ray absorption fine structure analysis of $\text{BaTiO}_3$ - $\text{LiCoO}_2$ composites for lithium ion batteries. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 659-663.	1.1	5
32	Improvement of Cycle Capability of $\text{VS}_4$ by Addition of Phosphorus Element. <i>Electrochemistry</i> , 2021, 89, 273-278.	1.4	5
33	Kinetic Study of Reduction Reaction for Supported PdO Species by Means of Dispersive XAFS Method. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012053.	0.4	4
34	Oxidation property of $\text{SiO}_2$ -supported small nickel particle prepared by the sol-gel method. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012075.	0.4	4
35	Development of dispersive XAFS system for analysis of time-resolved spatial distribution of electrode reaction. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1227-1232.	2.4	3
36	Dynamic chemical state conversion of nickel species supported on silica under $\text{CO} \leftrightarrow \text{NO}$ reaction conditions. <i>Catalysis Today</i> , 2018, 303, 33-39.	4.4	3

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37	Stability of Copper Nitride Nanoparticles under High Humidity and in Solutions with Different Acidity. Chemistry Letters, 2015, 44, 755-757.	1.3	2
38	<i>In-situ</i> XAFS study for calcination process of Cr catalyst supported on $\beta\text{-Al}_2\text{O}_3$ and $\text{SiO}_2$ . Journal of Physics: Conference Series, 2016, 712, 012073.	0.4	2
39	Time-resolved study on dynamic chemical state conversion of $\text{SiO}_2$ -supported Co species by means of dispersive XAFS technique. Journal of Physics: Conference Series, 2016, 712, 012061.	0.4	2
40	Analysis of Reaction Mechanism for Supported Metal Catalysts by Means of Time-Resolved XAFS Technique. Journal of the Vacuum Society of Japan, 2016, 59, 293-300.	0.3	2
41	In situ X-ray absorption fine structure analysis of redox reactions of nickel species with variable particle sizes supported on silica. Journal of Solid State Chemistry, 2018, 258, 264-270.	2.9	2
42	Spin states investigation of delafossite oxides by means of X-ray absorption and photoemission spectroscopy. Journal of Solid State Chemistry, 2019, 275, 83-87.	2.9	2
43	Development of Simultaneous Measurement System for X-ray Absorption Spectra at Two Absorption Edges. Analytical Sciences, 2020, 36, 47-53.	1.6	2
44	Single atomic Co coordinated with N in microporous carbon for oxygen reduction reaction obtained from Co/2-methylimidazole anchored to Y zeolite as a template. Materials Today Chemistry, 2021, 20, 100410.	3.5	2
45	Inhomogeneous distribution of chemical species in lithium nickel oxide cathode of lithium ion battery. Journal of Physics: Conference Series, 2016, 712, 012143.	0.4	1
46	Discharge condition dependence of in-plane inhomogeneous cathode reaction analyzed by X-ray absorption near edge structure imaging. Journal of Power Sources, 2021, 506, 230256.	7.8	1
47	Novel structural variation of silver(I)-pyridine complexes in nitromethane as studied by X-ray absorption spectroscopy. Inorganica Chimica Acta, 2011, 378, 66-71.	2.4	0
48	Charge-Discharge Property of Non-Stoichiometric Lithium Iron Silicate. ECS Transactions, 2017, 80, 111-116.	0.5	0
49	X-Ray Absorption Fine Structure Imaging of Lithium Ion Secondary Battery. Journal of the Vacuum Society of Japan, 2015, 58, 375-378.	0.3	0
50	Analysis of Irreversible Charge-Discharge Reaction in $\text{LiFePO}_4/\text{Li}_4\text{Ti}_5\text{O}_{12}$ Full-Cell Using Two-Phase Reaction Active Material. ECS Meeting Abstracts, 2020, MA2020-02, 3502-3502.	0.0	0
51	Analysis of Rate and Temperature Dependence of Inhomogeneous Cathode Reaction By Means of in-Situ XAFS Imaging. ECS Meeting Abstracts, 2020, MA2020-02, 3149-3149.	0.0	0
52	Imaging XAFS Study on Reaction Distribution of Composite Electrode Used As Commercial Lithium-Ion Battery. ECS Meeting Abstracts, 2020, MA2020-02, 3503-3503.	0.0	0