

# Misaki Katayama

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6250109/publications.pdf>

Version: 2024-02-01

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	Vanadium diphosphide as a negative electrode material for sodium secondary batteries. <i>Journal of Power Sources</i> , 2021, 483, 229182.	7.8	14
2	Improvement of Cycle Capability of VS<sub>4</sub> by Addition of Phosphorus Element. <i>Electrochemistry</i> , 2021, 89, 273-278.	1.4	5
3	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. <i>Materials Today Chemistry</i> , 2021, 20, 100410.	3.5	2
4	Discharge condition dependence of in-plane inhomogeneous cathode reaction analyzed by X-ray absorption near edge structure imaging. <i>Journal of Power Sources</i> , 2021, 506, 230256.	7.8	1
5	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
6	Development of Simultaneous Measurement System for X-ray Absorption Spectra at Two Absorption Edges. <i>Analytical Sciences</i> , 2020, 36, 47-53.	1.6	2
7	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
8	Analysis of Irreversible Charge-Discharge Reaction in LiFePO <sub>4</sub> /Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Full-Cell Using Two-Phase Reaction Active Material. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3502-3502.	0.0	0
9	Analysis of Rate and Temperature Dependence of Inhomogeneous Cathode Reaction By Means of in-Situ XAFS Imaging. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3149-3149.	0.0	0
10	Imaging XAFS Study on Reaction Distribution of Composite Electrode Used As Commercial Lithium-Ion Battery. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3503-3503.	0.0	0
11	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
12	Improvement of Cycle Capability of Fe-Substituted Li<sub>2</sub>-S-Based Positive Electrode Materials by Doping with Lithium Iodide. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5231-A5236.	2.9	8
13	Spin states investigation of delafossite oxides by means of X-ray absorption and photoemission spectroscopy. <i>Journal of Solid State Chemistry</i> , 2019, 275, 83-87.	2.9	2
14	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
15	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
16	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
17	In situ X-ray absorption fine structure analysis of redox reactions of nickel species with variable particle sizes supported on silica. <i>Journal of Solid State Chemistry</i> , 2018, 258, 264-270.	2.9	2
18	Dynamic chemical state conversion of nickel species supported on silica under CO<sub>2</sub>-NO reaction conditions. <i>Catalysis Today</i> , 2018, 303, 33-39.	4.4	3

#	ARTICLE	IF	CITATIONS
19	A highly-flexible cyclic-decavanadate ligand for interconversion of dinuclear- and trinuclear-cobalt( $\text{Co}^{\text{II}}$ ) and manganese( $\text{Mn}^{\text{II}}$ ) cores. RSC Advances, 2017, 7, 37666-37674.	3.6	8
20	Charge-Discharge Property of Non-Stoichiometric Lithium Iron Silicate. ECS Transactions, 2017, 80, 111-116.	0.5	0
21	Evidence of valence state change of $\text{Ce}^{3+}$ and $\text{Cr}^{3+}$ during UV charging process in $\text{Y}_3\text{Al}_2\text{Ga}_3\text{O}_{12}$ persistent phosphors. Optical Materials Express, 2017, 7, 2471.	3.0	24
22	<i>In-situ</i> XAFS study for calcination process of Cr catalyst supported on $\text{Al}_2\text{O}_3$ and $\text{SiO}_2$ . Journal of Physics: Conference Series, 2016, 712, 012073.	0.4	2
23	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
24	Oxidation property of $\text{SiO}_2$ -supported small nickel particle prepared by the sol-gel method. Journal of Physics: Conference Series, 2016, 712, 012075.	0.4	4
25	Particle size effect of redox reactions for Co species supported on silica. Journal of Solid State Chemistry, 2016, 241, 212-218.	2.9	7
26	In situ time-resolved dispersive X-ray absorption fine structure analysis of $\text{BaTiO}_3$ - $\text{LiCoO}_2$ composites for lithium ion batteries. Journal of the Ceramic Society of Japan, 2016, 124, 659-663.	1.1	5
27	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
28	A Comparison on $\text{Ce}^{3+}$ Luminescence in Borate Glass and YAG Ceramic: Understanding the Role of Host's Characteristics. Journal of Physical Chemistry C, 2016, 120, 17683-17691.	3.1	51
29	Ionic Conduction in Lithium Ion Battery Composite Electrode Governs Cross-sectional Reaction Distribution. Scientific Reports, 2016, 6, 26382.	3.3	123
30	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
31	Kinetic Study on Solid-Phase Reduction of Silica-Supported Nickel Oxide Species. Bulletin of the Chemical Society of Japan, 2015, 88, 1629-1635.	3.2	7
32	Stability of Copper Nitride Nanoparticles under High Humidity and in Solutions with Different Acidity. Chemistry Letters, 2015, 44, 755-757.	1.3	2
33	Development of dispersive XAFS system for analysis of time-resolved spatial distribution of electrode reaction. Journal of Synchrotron Radiation, 2015, 22, 1227-1232.	2.4	3
34	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
35	X-ray absorption fine structure imaging of inhomogeneous electrode reaction in $\text{LiFePO}_4$ lithium-ion battery cathode. Journal of Power Sources, 2014, 269, 994-999.	7.8	55
36	Regeneration of manganese oxide as adsorption sites for hydrogen sulfide on granulated coal ash. Chemical Engineering Journal, 2014, 254, 531-537.	12.7	20

#	ARTICLE	IF	CITATIONS
37	Thermoelectric Efficiency of Reduced $\text{SrTiO}_3$ Ceramics Modified with $\text{La}$ and $\text{Nb}$ . Journal of the American Ceramic Society, 2013, 96, 2852-2856.	3.8	33
38	Removal of hydrogen sulfide using carbonated steel slag. Chemical Engineering Journal, 2013, 228, 843-849.	12.7	44
39	Kinetic Study of Reduction Reaction for Supported PdO Species by Means of Dispersive XAFS Method. Journal of Physics: Conference Series, 2013, 430, 012053.	0.4	4
40	In situ two-dimensional micro-imaging XAFS with CCD detector. Journal of Physics: Conference Series, 2013, 430, 012021.	0.4	5
41	Reduction Kinetics of Nickel Species Supported on Silica. Journal of Physics: Conference Series, 2013, 430, 012051.	0.4	6
42	Reevaluation of Donor Number Using Titration Calorimetry. Analytical Sciences, 2012, 28, 103-106.	1.6	11
43	Development of a two-dimensional imaging system of X-ray absorption fine structure. Journal of Synchrotron Radiation, 2012, 19, 717-721.	2.4	22
44	Mechanisms of Hydrogen Sulfide Removal with Steel Making Slag. Environmental Science & Technology, 2012, 46, 10169-10174.	10.0	49
45	Lanthanide Complexes of Macrocyclic Polyoxovanadates by $\text{VO}_4$ Units: Synthesis, Characterization, and Structure Elucidation by X-ray Crystallography and EXAFS Spectroscopy. Inorganic Chemistry, 2012, 51, 784-793.	4.0	36
46	Combined adsorption and oxidation mechanisms of hydrogen sulfide on granulated coal ash. Journal of Colloid and Interface Science, 2012, 377, 284-290.	9.4	51
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	Improvement of Cycle Capability of $\text{FeS}_2$ Positive Electrode by Forming Composites with $\text{Li}_2\text{S}$ for Ambient Temperature Lithium Batteries. Journal of the Electrochemical Society, 2011, 159, A75-A84.	2.9	46
49	Liquid structure of benzene and its derivatives as studied by means of X-ray scattering. Physics and Chemistry of Liquids, 2010, 48, 797-809.	1.2	12
50	The Number of Water-Water Hydrogen Bonds in Water-Tetrahydrofuran and Water-Acetone Binary Mixtures Determined by Means of X-Ray Scattering. Journal of Solution Chemistry, 2008, 37, 841-856.	1.2	27
51	Analysis of Liquid Structure without Construction of Any Structure Models by the X-Ray Scattering Method. Analytical Sciences, 2007, 23, 929-936.	1.6	5
52	The Liquid Structure of Various Nitriles and N,N-Dimethylformamide Studied by the X-Ray Diffraction Method Using a CCD Detector. Zeitschrift Fur Physikalische Chemie, 2004, 218, 659-677.	2.8	9