

Masanari Nagasaka

List of Publications by Year in descending order

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60
papers

1,224
citations

361045

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377514

34
g-index

62
all docs

62
docs citations

62
times ranked

1586
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray absorption spectra of aqueous cellobiose: Experiment and theory. Journal of Chemical Physics, 2022, 156, 044202.	1.2	4
2	Hydrophobic Cluster Formation in Aqueous Ethanol Solutions Probed by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2022, 126, 4948-4955.	1.2	4
3	Aqueous-phase behavior of glyoxal and methylglyoxal observed with carbon and oxygen K-edge X-ray absorption spectroscopy. Atmospheric Chemistry and Physics, 2021, 21, 2881-2894.	1.9	5
4	Electrochemical Oxidation Enables Regioselective and Scalable $\hat{\pm}$ -C(sp ³)-H Acyloxylolation of Sulfides. Journal of the American Chemical Society, 2021, 143, 3628-3637.	6.6	61
5	Soft X-ray Absorption Spectroscopy for Observing Element-specific Intermolecular Interaction in Solution Chemistry. Chemistry Letters, 2021, 50, 956-964.	0.7	9
6	Solvent Effects in the Ultraviolet and X-ray Absorption Spectra of Pyridazine in Aqueous Solution. Journal of Physical Chemistry A, 2021, 125, 7198-7206.	1.1	7
7	Demonstration of Transmission Mode Soft X-ray NEXAFS Using Third- and Fifth-Order Harmonics of FEL Radiation at SACLA BL1. Applied Sciences (Switzerland), 2020, 10, 7852.	1.3	2
8	Photoelectron based soft x-ray detector for removing high order x rays. Review of Scientific Instruments, 2020, 91, 083103.	0.6	0
9	<i>Operando</i> Observations of a Manganese Oxide Electrocatalyst for Water Oxidation Using Hard/Tender/Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 23611-23618.	1.5	22
10	Quantum Materials Exploration by Sequential Screening Technique of Heteroatomicity. Journal of the American Chemical Society, 2020, 142, 19078-19084.	6.6	11
11	Microheterogeneity in Aqueous Acetonitrile Solution Probed by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 1259-1265.	1.2	21
12	Soft X-ray Absorption Spectroscopy of Liquids for Understanding Chemical Processes in Solution. Analytical Sciences, 2020, 36, 95-99.	0.8	17
13	Soft X-ray absorption spectroscopy in the low-energy region explored using an argon gas window. Journal of Synchrotron Radiation, 2020, 27, 959-962.	1.0	0
14	Laminar flow in microfluidics investigated by spatially-resolved soft X-ray absorption and infrared spectroscopy. Journal of Chemical Physics, 2019, 151, 114201.	1.2	8
15	Uncovering the Charge Transfer between Carbon Dots and Water by In Situ Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 3843-3848.	2.1	13
16	Intermolecular Interactions of Pyridine in Liquid Phase and Aqueous Solution Studied by Soft X-ray Absorption Spectroscopy. Zeitschrift Fur Physikalische Chemie, 2018, 232, 705-722.	1.4	21
17	Reliable absorbance measurement of liquid samples in soft X-ray absorption spectroscopy in transmission mode. Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 93-99.	0.8	30
18	<i>Operando</i> Observation of Liquid and Liquid-Liquid Interface by Soft X-ray Absorption Spectroscopy. Molecular Science, 2018, 12, A0096.	0.2	0

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19	Temperature-Dependent Structural Changes in Liquid Benzene. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5827-5832.	2.1	13
20	Unusual Water Hydrogen Bond Network around Hydrogenated Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5185-5194.	1.5	104
21	Development of In-Situ/Operando Sample Cells for Soft X-ray Transmission Spectromicroscopy at UVSOR-III Synchrotron. <i>Synchrotron Radiation News</i> , 2017, 30, 3-7.	0.2	3
22	Integration of Active Nickel Oxide Clusters by Amino Acids for Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 255-260.	1.5	15
23	Interaction between Water and Alkali Metal Ions and Its Temperature Dependence Revealed by Oxygen K-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10957-10964.	1.2	41
24	Soft X-ray Absorption Spectroscopy in Transmission Mode: Chemical Shifts and Technical Developments for Chemical State Analysis of Interacting Molecular Systems. <i>Journal of the Vacuum Society of Japan</i> , 2016, 59, 301-306.	0.3	0
25	Impacts of Conformational Geometries in Fluorinated Alkanes. <i>Scientific Reports</i> , 2016, 6, 31382.	1.6	4
26	Development of in-situ sample cells for scanning transmission x-ray microscopy. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
27	Local Structure Analysis of Electrochemical Reaction by Soft X-ray Absorption Spectroscopy. <i>Bunseki Kagaku</i> , 2015, 64, 163-172.	0.1	1
28	Fluorination-dependent molecular orbital occupancy in ring-shaped perfluorocarbons. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18337-18343.	1.3	6
29	Development and application of in situ/operando soft X-ray transmission cells to aqueous solutions and catalytic and electrochemical reactions. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 200, 293-310.	0.8	32
30	Probing Interfacial Water on Nanodiamonds in Colloidal Dispersion. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2909-2912.	2.1	54
31	<i>In Situ</i> Soft X-ray Absorption Spectroscopy Applied to Solid-Liquid Heterogeneous Cyanopyrazine Hydration Reaction on Titanium Oxide Catalyst. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7738-7745.	1.5	22
32	Direct Observation of Active Nickel Oxide Cluster in Nickel-Borate Electrocatalyst for Water Oxidation by In Situ O K-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19279-19286.	1.5	80
33	In operando observation system for electrochemical reaction by soft X-ray absorption spectroscopy with potential modulation method. <i>Review of Scientific Instruments</i> , 2014, 85, 104105.	0.6	38
34	Local Structures of Methanol-Water Binary Solutions Studied by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4388-4396.	1.2	81
35	Structure and Photo-Induced Charge Transfer of Pyridine Molecules Adsorbed on TiO ₂ (110): A NEXAFS and Core-Hole-Clock Study. <i>Electrochemistry</i> , 2014, 82, 341-345.	0.6	2
36	Electrochemical Reaction of Aqueous Iron Sulfate Solutions Studied by Fe L-Edge Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16343-16348.	1.5	54

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37	Structures of mixed argon-nitrogen clusters. <i>Journal of Chemical Physics</i> , 2012, 137, 214305.	1.2	8
38	Structures of small mixed krypton-xenon clusters. <i>Journal of Chemical Physics</i> , 2012, 136, 234312.	1.2	5
39	Inner-shell spectroscopy and exchange interaction of Rydberg electrons bound by singly and doubly charged Kr and Xe atoms in small clusters. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 183, 29-35.	0.8	15
40	Development of a liquid flow cell to measure soft X-ray absorption in transmission mode: A test for liquid water. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 130-134.	0.8	84
41	Mechanism of Ammonia Formation on Rh(111) Studied by Dispersive Near-Edge X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2164-2170.	1.5	7
42	Chemical Reactions on Platinum-Group Metal Surfaces Studied by Synchrotron-Radiation-Based Spectroscopy. <i>Journal of the Vacuum Society of Japan</i> , 2009, 52, 73-79.	0.3	2
43	Proton transfer in water-hydroxyl mixed overlayers on Pt(111): Combined approach of laser desorption and spatially-resolved X-ray photoelectron spectroscopy. <i>Surface Science</i> , 2009, 603, 1690-1695.	0.8	6
44	Mechanism of N + NO Reaction on Rh(111) Surfaces: A precursor-Mediated Reaction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13257-13265.	1.5	26
45	Exchange interaction in Kr 3d excitations of small krypton clusters. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2008, 166-167, 16-20.	0.8	7
46	Proton Transfer in a Two-Dimensional Hydrogen-Bonding Network: Water and Hydroxyl on a Pt(111) Surface. <i>Physical Review Letters</i> , 2008, 100, 106101.	2.9	39
47	CO oxidation reaction on Pt(111) studied by the dynamic Monte Carlo method including lateral interactions of adsorbates. <i>Journal of Chemical Physics</i> , 2007, 126, 044704.	1.2	44
48	N+NO Reaction on Rh(111) Surfaces Studied with Fast Near-Edge X-ray Absorption Fine Structure Spectroscopy: A Role of NO Dimer as an Extrinsic Precursor. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25578-25581.	1.2	16
49	Structural Study of NO Adsorbed on the Reconstructed Pt(110)-(1 Å ⁻²) Surface with X-ray Photoelectron Diffraction and Near-Edge X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20507-20512.	1.2	6
50	Energy Dispersed Near-Edge X-ray Absorption Fine Structure a New Technique to Study Dynamic Surface Processes. <i>Physica Scripta</i> , 2005, , 88.	1.2	0
51	Structural study of hexanethiolate on Au(111) in the "striped" phase. <i>Chemical Physics Letters</i> , 2005, 406, 232-236.	1.2	22
52	Mechanism of Water Formation on Pt(111) Revealed by Time-resolved NEXAFS Experiment and Kinetic Monte Carlo Simulation. <i>Hyomen Kagaku</i> , 2005, 26, 378-384.	0.0	1
53	Water formation reaction on Pt(111): Role of the proton transfer. <i>Journal of Chemical Physics</i> , 2005, 122, 204704.	1.2	17
54	Mechanism of the CO oxidation reaction on O-precovered Pt(111) surfaces studied with near-edge x-ray absorption fine structure spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 134709.	1.2	27

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55	Element-selective vertical height determination for an organic monolayer by a scanned-energy photoelectron-yield soft x-ray standing wave technique. Applied Physics Letters, 2005, 87, 031911.	1.5	2
56	Oxygen island formation on Pt(111) studied by dynamic Monte Carlo simulation. Journal of Chemical Physics, 2005, 122, 044715.	1.2	5
57	Reaction-path switching induced by spatial-distribution change of reactants: CO oxidation on Pt(111). Journal of Chemical Physics, 2004, 121, 5035-5038.	1.2	38
58	Adsorption structures of NO on Pt(111) studied by the near edge X-ray absorption fine structure spectroscopy. Surface Science, 2004, 565, 232-242.	0.8	26
59	Oxygen K-edge near edge X-ray absorption fine structures of O and OH overlayers on Pt(111). Chemical Physics Letters, 2003, 375, 419-424.	1.2	11
60	Water formation reaction on Pt(111): Near edge x-ray absorption fine structure experiments and kinetic Monte Carlo simulations. Journal of Chemical Physics, 2003, 119, 9233-9241.	1.2	21