Masanari Nagasaka

List of Publications by Year
in descending order

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		361045	377514
60	1,224	20	34
papers	citations	h-index	g-index

62	62	62	1586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unusual Water Hydrogen Bond Network around Hydrogenated Nanodiamonds. Journal of Physical Chemistry C, 2017, 121, 5185-5194.	1.5	104
2	Development of a liquid flow cell to measure soft X-ray absorption in transmission mode: A test for liquid water. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 130-134.	0.8	84
3	Local Structures of Methanolâ€“Water Binary Solutions Studied by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 4388-4396.	1.2	81
4	Direct Observation of Active Nickel Oxide Cluster in Nickelâ€“Borate Electrocatalyst for Water Oxidation by In Situ O K-Edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 19279-19286.	1.5	80
5	Electrochemical Oxidation Enables Regioselective and Scalable Î±-C(sp³)-H Acyloxylation of Sulfides. Journal of the American Chemical Society, 2021, 143, 3628-3637.	6.6	61
6	Electrochemical Reaction of Aqueous Iron Sulfate Solutions Studied by Fe L-Edge Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 16343-16348.	1.5	54
7	Probing Interfacial Water on Nanodiamonds in Colloidal Dispersion. Journal of Physical Chemistry Letters, 2015, 6, 2909-2912.	2.1	54
8	CO oxidation reaction on Pt(111) studied by the dynamic Monte Carlo method including lateral interactions of adsorbates. Journal of Chemical Physics, 2007, 126, 044704.	1.2	44
9	Interaction between Water and Alkali Metal Ions and Its Temperature Dependence Revealed by Oxygen K-Edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2017, 121, 10957-10964.	1.2	41
10	Proton Transfer in a Two-Dimensional Hydrogen-Bonding Network: Water and Hydroxyl on a Pt(111) Surface. Physical Review Letters, 2008, 100, 106101.	2.9	39
11	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
12	In operando observation system for electrochemical reaction by soft X-ray absorption spectroscopy with potential modulation method. Review of Scientific Instruments, 2014, 85, 104105.	0.6	38
13	Development and application of in situ/operando soft X-ray transmission cells to aqueous solutions and catalytic and electrochemical reactions. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 293-310.	0.8	32
14	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
15	Mechanism of the CO oxidation reaction on O-precovered Pt(111) surfaces studied with near-edge x-ray absorption fine structure spectroscopy. Journal of Chemical Physics, 2005, 122, 134709.	1.2	27
16	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
17	Mechanism of N + NO Reaction on Rh(111) Surfaces: A precursor-Mediated Reaction. Journal of Physical Chemistry C, 2009, 113, 13257-13265.	1.5	26
18	Structural study of hexanethiolate on Au(111) in the â€˜stripedâ€™ phase. Chemical Physics Letters, 2005, 406, 232-236.	1.2	22

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19	In Situ Soft X-ray Absorption Spectroscopy Applied to Solidâ€“Liquid Heterogeneous Cyanopyrazine Hydration Reaction on Titanium Oxide Catalyst. Journal of Physical Chemistry C, 2015, 119, 7738-7745.	1.5	22
20	Operando 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
21	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
22	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
23	Microheterogeneity in Aqueous Acetonitrile Solution Probed by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 1259-1265.	1.2	21
24	Water formation reaction on Pt(111): Role of the proton transfer. Journal of Chemical Physics, 2005, 122, 204704.	1.2	17
25	Soft X-ray Absorption Spectroscopy of Liquids for Understanding Chemical Processes in Solution. Analytical Sciences, 2020, 36, 95-99.	0.8	17
26	N+NO Reaction on Rh(111) Surfaces Studied with Fast Near-Edge X-ray Absorption Fine Structure Spectroscopy:Â Role of NO Dimer as an Extrinsic Precursor. Journal of Physical Chemistry B, 2006, 110, 25578-25581.	1.2	16
27	Inner-shell spectroscopy and exchange interaction of Rydberg electrons bound by singly and doubly charged Kr and Xe atoms in small clusters. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 29-35.	0.8	15
28	Integration of Active Nickel Oxide Clusters by Amino Acids for Water Oxidation. Journal of Physical Chemistry C, 2017, 121, 255-260.	1.5	15
29	Temperature-Dependent Structural Changes in Liquid Benzene. Journal of Physical Chemistry Letters, 2018, 9, 5827-5832.	2.1	13
30	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
31	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
32	Quantum Materials Exploration by Sequential Screening Technique of Heteroatomicity. Journal of the American Chemical Society, 2020, 142, 19078-19084.	6.6	11
33	Soft X-ray Absorption Spectroscopy for Observing Element-specific Intermolecular Interaction in Solution Chemistry. Chemistry Letters, 2021, 50, 956-964.	0.7	9
34	Structures of mixed argon-nitrogen clusters. Journal of Chemical Physics, 2012, 137, 214305.	1.2	8
35	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
36	Exchange interaction in Kr 3d excitations of small krypton clusters. Journal of Electron Spectroscopy and Related Phenomena, 2008, 166-167, 16-20.	0.8	7

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37	Mechanism of Ammonia Formation on Rh(111) Studied by Dispersive Near-Edge X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 2164-2170.	1.5	7
38	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
39	Proton transfer in waterâ€“hydroxyl mixed overlayers on Pt(111): Combined approach of laser desorption and spatially-resolved X-ray photoelectron spectroscopy. Surface Science, 2009, 603, 1690-1695.	0.8	6
40	Fluorination-dependent molecular orbital occupancy in ring-shaped perfluorocarbons. Physical Chemistry Chemical Physics, 2015, 17, 18337-18343.	1.3	6
41	Structural Study of NO Adsorbed on the Reconstructed Pt(110)-(1 Ã— 2) Surface with X-ray Photoelectron Diffraction and Near-Edge X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 20507-20512.	1.2	6
42	Oxygen island formation on Pt(111) studied by dynamic Monte Carlo simulation. Journal of Chemical Physics, 2005, 122, 044715.	1.2	5
43	Structures of small mixed krypton-xenon clusters. Journal of Chemical Physics, 2012, 136, 234312.	1.2	5
44	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
45	Impacts of Conformational Geometries in Fluorinated Alkanes. Scientific Reports, 2016, 6, 31382.	1.6	4
46	Development of in-situ sample cells for scanning transmission x-ray microscopy. AIP Conference Proceedings, 2016, , .	0.3	4
47	X-ray absorption spectra of aqueous cellobiose: Experiment and theory. Journal of Chemical Physics, 2022, 156, 044202.	1.2	4
48	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
49	Development of In-Situ/Operando Sample Cells for Soft X-ray Transmission Spectromicroscopy at UVSOR-III Synchrotron. Synchrotron Radiation News, 2017, 30, 3-7.	0.2	3
50	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
51	Chemical Reactions on Platinum-Group Metal Surfaces Studied by Synchrotron-Radiation-Based Spectroscopy. Journal of the Vacuum Society of Japan, 2009, 52, 73-79.	0.3	2
52	Structure and Photo-Induced Charge Transfer of Pyridine Molecules Adsorbed on TiO2(110): A NEXAFS and Core-Hole-Clock Study. Electrochemistry, 2014, 82, 341-345.	0.6	2
53	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
54	Mechanism of Water Formation on Pt(111) Revealed by Time-resolved NEXAFS Experiment and Kinetic Monte Carlo Simulation. Hyomen Kagaku, 2005, 26, 378-384.	0.0	1

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55	Local Structure Analysis of Electrochemical Reaction by Soft X-ray Absorption Spectroscopy. Bunseki Kagaku, 2015, 64, 163-172.	0.1	1
56	EnergyDispersed NearEdge XRay Absorption Fine Structure a New Technique to Study Dynamic Surface Processes. Physica Scripta, 2005, , 88.	1.2	0
57	Soft X-ray Absorption Spectroscopy in Transmission Mode: Chemical Shifts and Technical Developments for Chemical State Analysis of Interacting Molecular Systems. Journal of the Vacuum Society of Japan, 2016, 59, 301-306.	0.3	0
58	Operando Observation of Liquid and Liquid-Liquid Interface by Soft X-ray Absorption Spectroscopy. Molecular Science, 2018, 12, A0096.	0.2	0
59	Photoelectron based soft x-ray detector for removing high order x rays. Review of Scientific Instruments, 2020, 91, 083103.	0.6	0
60	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