

# Yasuji Muramatsu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/614923/publications.pdf>

Version: 2024-02-01

99  
papers

911  
citations

586496

16  
h-index

685536

24  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heating system for in situ XANES measurements in the soft X-ray region of bulk samples at BL10/NewSUBARU. <i>Analytical Sciences</i> , 2022, 38, 717-723.	0.8	1
2	Relationship between Width and Height of $\tilde{\nu}^*$ Peak in CK-XANES of Graphitic Carbons. <i>Analytical Sciences</i> , 2021, 37, 1617-1623.	0.8	3
3	On the Nature of Organic Dust in Novae. <i>Astrophysical Journal</i> , 2021, 917, 103.	1.6	9
4	Interfacial effect between graphite and iron substrate on basal plane orientation and lubricity of graphite. <i>Tribology International</i> , 2020, 151, 106455.	3.0	4
5	Contribution of edge-carbon atoms and non-benzenoid rings in graphitic carbons to $\tilde{\nu}^*$ peak profiles in CK-XANES spectra. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 835, 012025.	0.3	0
6	Molecular evolution during hydrothermal reactions from formaldehyde and ammonia simulating aqueous alteration in meteorite parent bodies. <i>Icarus</i> , 2020, 347, 113827.	1.1	18
7	Total-Electron-Yield Measurements by Soft X-Ray Irradiation of Insulating Organic Films on Conductive Substrates. <i>Analytical Sciences</i> , 2020, 36, 1507-1511.	0.8	1
8	Soft X-Ray Absorption Spectra of Polyethyleneterephthalate (PET) Films ~ Mass Absorption Coefficient of Oxygen at the O $K$ -Absorption Edge ~. <i>Vacuum and Surface Science</i> , 2020, 63, 470-475.	0.0	1
9	Insight into the origin of carbon corrosion in positive electrodes of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7480-7488.	5.2	62
10	Soft X-ray absorption near-edge structures of B/C and B/C/N materials and the analysis of their electronic state using the first-principle calculations. <i>Tanso</i> , 2019, 2019, 67-73.	0.1	1
11	A carbonaceous two-dimensional lattice with $\text{FeN}_4$ units. <i>Chemical Communications</i> , 2018, 54, 8995-8998.	2.2	8
12	Soft X-ray absorption spectroscopy study of chemical states, orientation, and oxygen content of ion-irradiated vertically aligned multiwalled carbon nanotubes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 220, 91-95.	0.8	2
13	Newly Developed Friction Tester for <i>in situ</i> Soft X-Ray Absorption Measurements of Frictional Engine-Oil/Metals Interfaces. <i>Analytical Sciences</i> , 2017, 33, 1465-1468.	0.8	2
14	Development of High-Reflective W/Si-multilayer Diffraction Grating for the Analysis of Fluorine Materials. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2015, 28, 531-536.	0.1	30
15	Electrochemical Intercalation of Sodium Ions into Thermally Reduced Graphite Oxide. <i>Electrochemistry</i> , 2015, 83, 345-347.	0.6	7
16	Local Structure Analysis of Graphitic Carbon Particles by Using Soft X-ray Absorption Spectroscopy and the First-principle Calculations. <i>Journal of the Society of Powder Technology, Japan</i> , 2015, 52, 515-522.	0.0	0
17	Silica-pillared graphene sheets with iron-nitrogen units as an oxygen reduction catalyst. <i>Carbon</i> , 2014, 66, 327-333.	5.4	14
18	ELUV Resist Chemical Analysis by Soft X-ray Absorption Spectroscopy for High Sensitivity Achievement. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 631-638.	0.1	13

#	ARTICLE	IF	CITATIONS
19	Local structure analysis of heavily boron-doped diamond by soft x-ray spectroscopy. <i>Diamond and Related Materials</i> , 2013, 39, 53-57.	1.8	7
20	Quantitative and Fingerprint Analysis Method of Nitrogen in Graphitic Carbon Materials Using Total-Electron-Yield Soft X-ray Absorption Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 041304.	0.8	3
21	EUV Resist Chemical Reaction Analysis using SR. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 635-641.	0.1	6
22	Electronic/chemical State Analysis of Light Element Materials Using Synchrotron-Radiation Soft X-ray Spectroscopy. <i>Materia Japan</i> , 2013, 52, 558-562.	0.1	2
23	Chemical-State Analysis of Organic Semiconductors Using Soft X-ray Absorption Spectroscopy Combined with First-Principles Calculation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1527-1531.	1.1	5
24	Chemical State Analysis of Entrapped Nitrogen in Carbon Nanohorns Using Soft X-ray Emission and Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6793-6799.	1.5	4
25	Pore Development in Carbonized Hemoglobin by Concurrently Generated MgO Template for Activity Enhancement as Fuel Cell Cathode Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4837-4843.	4.0	18
26	Characterization and Cadmium Ion-Removing Property of Adsorbents Synthesized from Inorganic Wastes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 162020.	0.3	0
27	Local structure analysis of boron-doped graphite by soft x-ray emission and absorption spectroscopy using synchrotron radiation. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	15
28	Optimization of Heat Treatment Conditions for Oyster Shells to Increase their Ability to Remove Ions with Negative Environmental Impacts. <i>Journal of the Japan Society of Material Cycles and Waste Management</i> , 2011, 22, 276-283.	0.1	1
29	Total Electron Yield Ratios between Sample Components in Total-Electron-Yield Soft X-ray Absorption Spectroscopy. <i>Bunseki Kagaku</i> , 2010, 59, 455-461.	0.1	2
30	Adsorption structure analysis of entrapped nitrogen in carbon-nanohorns by soft X-ray emission and absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 181, 186-188.	0.8	5
31	Intercalation Chemistry and Electronic Structure of Graphite-Like Layered Material BC <sub>2</sub> N. <i>Journal of the Electrochemical Society</i> , 2010, 157, P13.	1.3	26
32	Soft X-ray absorption spectra in the CK region of carbon black and spectral analysis using the discrete variational X <sub>LS</sub> method. <i>Tanso</i> , 2009, 2009, 2-8.	0.1	7
33	Quantitative and chemical-state analyses of surface oxygen on graphite oxides using total-electron-yield soft X-ray absorption spectroscopy. <i>Tanso</i> , 2009, 2009, 9-14.	0.1	8
34	Total Electron Yield Soft X-ray Absorption Spectroscopy in the C K Region of the Mixtures of Graphitic Carbons and Diamond for Quantitative Analysis of the sp <sup>2</sup> /sp <sup>3</sup> -Hybridized Carbon Ratio. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 066514.	0.8	12
35	Electronic structure calculations of carbon nanohorns for their chemical state analysis using soft X-ray spectroscopy. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2728-2733.	1.0	7
36	High-resolution soft X-ray spectral analysis in the C <i>k</i> region of titanium carbide using the DV <sub>MO</sub> molecular orbital method. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2722-2727.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Electronic structure and intercalation chemistry of graphite-like layered material with a composition of BC <sub>6</sub> N. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1171-1178.	1.9	40
38	Soft X-Ray Absorption Spectral Analysis of Amorphous Carbon and Carbon Black Using the DV-X <sub>α</sub> Method. <i>Advances in Quantum Chemistry</i> , 2008, 54, 209-218.	0.4	2
39	X-ray Magnetic Circular Dichroism and Photoemission Study of the Diluted Ferromagnetic Semiconductor Zn <sub>1-x</sub> Cr <sub>x</sub> Te. <i>Applied Physics Express</i> , 2008, 1, 041301.	1.1	8
40	Distribution of Lead in Lead-accumulating Pteridophyte <i>Blechnum niponicum</i> , Measured by Synchrotron Radiation Micro X-ray Fluorescence. <i>Analytical Sciences</i> , 2008, 24, 1545-1549.	0.8	13
41	Chemical Analysis of Impurity Boron Atoms in Diamond Using Soft X-Ray Emission Spectroscopy. <i>Analytical Sciences</i> , 2008, 24, 831-834.	0.8	4
42	Soft X-Ray Emission Spectral Analysis of Graphite Fluoride (CF) <sub>n</sub> Using the DV-X <sub>α</sub> Calculations. <i>Advances in Quantum Chemistry</i> , 2008, 54, 219-226.	0.4	0
43	Soft X-Ray Absorption Spectroscopy of High-Abrasion-Furnace Carbon Black. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	2
44	Two-acceptor levels in the band gap of boron-doped diamond semiconductors analyzed by soft x-ray absorption spectroscopy and DV-X <sub>α</sub> calculations. <i>X-Ray Spectrometry</i> , 2007, 36, 162-166.	0.9	8
45	Soft X-ray synchrotron radiation photoemission study on uranium compounds. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 995-996.	1.3	1
46	Soft X-ray Absorption Magnetic Circular Dichroism Study of Ferromagnetic Superconductor UGe <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , 2006, 75, 024704.	0.7	12
47	Itinerant U 5f band states in the layered compound UFeGa <sub>5</sub> observed by soft x-ray angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2006, 73, .	1.1	23
48	Soft X-ray emission spectra of argon atoms doped in solid matrices. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 799-802.	0.8	1
49	Characterization of surface carbon films on weathered Japanese roof tiles by soft x-ray spectroscopy. <i>X-Ray Spectrometry</i> , 2005, 34, 509-513.	0.9	1
50	Soft X-ray Absorption Spectra of Amorphous Carbon. <i>Physica Scripta</i> , 2005, , 501.	1.2	4
51	Polarization of a synthetic mica crystal polarizer and the degree of linear polarization of an undulator beamline at 880eV evaluated by the rotating-analyzer method. <i>Review of Scientific Instruments</i> , 2005, 76, 126106.	0.6	14
52	Element-Selective Observation of Electronic Structure Transition between Semiconducting and Metallic States in Boron-Doped Diamond Using Soft X-ray Emission and Absorption Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 6612-6617.	0.8	14
53	Simulation Study of Total-Electron-Yield X-ray Standing-Wave Spectra of Mo/SiC/Si/SiC and Mo/Si Multilayers. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	2
54	Soft X-ray emission spectroscopy of polycyclic aromatic hydrocarbons. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 137-140, 823-826.	0.8	3

#	ARTICLE	IF	CITATIONS
55	Evaluation of carbon films on the Japanese smoked roof tile <i>â€œ</i> bushi-Kawara <i>â€™</i> by angle-dependent soft X-ray emission spectroscopy using synchrotron radiation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1317-1322.	1.5	2
56	Angle-dependent total electron yield spectra in multilayer films for standing wave measurements. , 2004, 5538, 138.		0
57	First Principles Study of Core-hole Effect on Fluorine K-edge X-ray Absorption Spectra of MgF <sub>2</sub> and ZnF <sub>2</sub> . <i>Materials Transactions</i> , 2004, 45, 1991-1993.	0.4	7
58	X-ray absorption near edge structure of DNA bases around oxygen and nitrogen K-edge. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 199, 249-254.	0.6	42
59	Angle-resolved soft X-ray emission and absorption spectroscopy of hexagonal boron nitride. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 1951-1957.	2.0	20
60	Theoretically predicted soft x-ray emission and absorption spectra of graphitic-structured BC <sub>2</sub> N. <i>Advances in Quantum Chemistry</i> , 2003, , 353-361.	0.4	6
61	Nearly localized nature of f-electrons in CeTln <sub>5</sub> (T=Rh, Ir). <i>Physical Review B</i> , 2003, 67, .	1.1	36
62	Characterization of Carbon Films on the Japanese Smoked Roof Tile <i>â€œ</i> bushi-Kawara <i>â€™</i> by High-Resolution Soft X-ray Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 6551-6555.	0.8	8
63	SOFT X-RAY ABSORPTION SPECTRA IN THE O K REGION OF MICROPOROUS CARBON AND SOME REFERENCE AROMATIC COMPOUNDS. <i>Surface Review and Letters</i> , 2002, 09, 267-270.	0.5	5
64	Total-Electron-Yield X-Ray Standing-Wave Measurements of Multilayer X-Ray Mirrors for Interface Structure Evaluation. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 4250-4252.	0.8	7
65	Soft X-ray emission spectra in the O K region of oxygen incorporated in microporous carbon. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 301-305.	0.8	2
66	Experimental technique for radiative-process-resolved X-ray absorption spectroscopy at the inner-shell excitation thresholds. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 369-371.	1.0	2
67	Soft X-ray emission and absorption spectra in the O K region of oxygen incorporated in microporous carbon. <i>Carbon</i> , 2001, 39, 1399-1402.	5.4	2
68	Soft X-ray emission and absorption spectra in the C K region of sputtered amorphous carbon films. <i>Carbon</i> , 2001, 39, 1403-1407.	5.4	21
69	Direct observation of benzene and pyridine molecules adsorbed in microporous carbon using synchrotron-radiation-excited soft X-ray emission spectroscopy. <i>Carbon</i> , 2000, 38, 1939-1942.	5.4	5
70	Soft X-ray emission and absorption spectroscopy of hydrofullerene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 107, 177-184.	0.8	7
71	Si K <sub>L</sub> <sup>2</sup> X-ray emission spectra of cubic silicon molecules identified by discrete variational (DV) X <sub>L</sub> <sup>±</sup> molecular orbital calculations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 107, 27-32.	0.8	3
72	Resonant elastic x-ray scattering of graphite and diamond at the carbon K threshold. <i>Physical Review B</i> , 2000, 61, R2393-R2396.	1.1	2

#	ARTICLE	IF	CITATIONS
73	Chemical bonding state analysis of silicon carbide layers in Mo/SiC/Si multilayer mirrors by soft x-ray emission and absorption spectroscopy. <i>Applied Physics Letters</i> , 2000, 77, 2653-2655.	1.5	10
74	Configurations of Benzene and Pyridine Molecules Adsorbed on Graphitic Surface of Microporous Carbon. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7154-7162.	1.2	7
75	High-Resolution Soft X-Ray Emission Spectra of Crystalline Carbon Nitride Films Deposited by Electron Cyclotron Resonance Sputtering. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 5143-5147.	0.8	12
76	Theoretically predicted soft X-ray emission and absorption spectra of fullerene-like carbon nitride (C <sub>24</sub> N <sub>36</sub> ). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 104, 155-160.	0.8	8
77	Calculation of B K-V x-ray emission spectra of boron nitrides. <i>X-Ray Spectrometry</i> , 1999, 28, 497-502.	0.9	4
78	Valence band structure and decay process in the inner-shell excitation of boron oxide. <i>X-Ray Spectrometry</i> , 1999, 28, 503-508.	0.9	16
79	Soft X-ray emission and absorption—a comparative study on the sensitivity to oxidation state and ligand environment of transition metal complexes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 92, 225-229.	0.8	20
80	Resonant X-ray scattering of boron compounds. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 593-597.	1.5	6
81	Discrete-variational Hartree-Fock-Slater calculation of polarized B K-emission band from hexagonal boron nitride thin film. <i>Physica B: Condensed Matter</i> , 1997, 229, 306-314.	1.3	1
82	Soft X-ray emission and absorption spectroscopy for electronic structure analysis of cubic silicon clusters in Si K-shell threshold. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1997, 85, 159-165.	0.8	3
83	Enhanced Resonant X-Ray Emissions of Mechanically Milled Hexagonal Boron Nitride in Boron K-Shell Excitation. <i>Physical Review Letters</i> , 1996, 76, 3846-3849.	2.9	15
84	GaSb-Growth Study by Realtime Crystal-Growth Analysis System Using Synchrotron Radiation Photoelectron Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 1996, 35, 4457-4462.	0.8	16
85	Detection of dangling bonds in the mechanically milled h-BN nanocrystals by resonance X-ray scattering above threshold. <i>Physica B: Condensed Matter</i> , 1995, 208-209, 251-252.	1.3	8
86	A VUV beamline (ABL-3B) for real-time photoelectron spectroscopy at the NTT synchrotron radiation facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994, 342, 596-599.	0.7	7
87	Resonant x-ray Raman scattering in B K $\alpha$ emission spectra of boron oxide (B <sub>2</sub> O <sub>3</sub> ) excited by undulator radiation. <i>Physical Review Letters</i> , 1993, 71, 448-451.	2.9	33
88	Discrete-variational-X $\alpha$ calculations of buckminsterfullerene (C <sub>60</sub> ) and fulleride x-ray emission spectra. <i>Journal of Chemical Physics</i> , 1993, 98, 3650-3655.	1.2	22
89	High-temperature diffraction gratings for synchrotron radiation. <i>Review of Scientific Instruments</i> , 1992, 63, 1424-1427.	0.6	6
90	A 2 $\mu$ m grazing incidence monochromator with a silicon-carbide-based master grating for undulator radiation. <i>Review of Scientific Instruments</i> , 1992, 63, 1305-1308.	0.6	9

#	ARTICLE	IF	CITATIONS
91	Undulator-radiation-excited x-ray fluorescence analysis system for light elements. Review of Scientific Instruments, 1992, 63, 5597-5601.	0.6	14
92	Description of synchrotron radiation sources in ray tracing programs. Review of Scientific Instruments, 1989, 60, 2048-2050.	0.6	7
93	Development of a VUV/soft x-ray monochromator for undulator radiation at the Photon Factory. Review of Scientific Instruments, 1989, 60, 2078-2080.	0.6	9
94	Focusing of synchrotron radiation by a multilayer-cylindrical tungsten-carbon Bragg reflector. Review of Scientific Instruments, 1989, 60, 2018-2020.	0.6	6
95	Characterization of undulator radiation from a high-field BL-16 multipole wiggler/undulator at the Photon Factory. Review of Scientific Instruments, 1989, 60, 1867-1870.	0.6	3
96	A New Ray-Tracing Program Capable of Simulating Insertion-Device Synchrotron Radiation Sources. Japanese Journal of Applied Physics, 1988, 27, L1539-L1542.	0.8	2
97	Effect of statistical fermi level shift on the Meyer-Neldel rule of a-Si:H conductivity. Journal of Non-Crystalline Solids, 1986, 81, 261-270.	1.5	7
98	Hydrogen abstraction from hydrogenated amorphous silicon surface by hydrogen atoms. Applied Physics Letters, 1986, 49, 1230-1232.	1.5	22
99	Reactions of Recoil Tritium with Naphthalene and Its Derivatives in Solid Phase. Radiochimica Acta, 1985, 38, 5-10.	0.5	4