Ryo Masuda

List of Publications by Year
in descending order

75 papers	753 citations	567281 15 h-index	610901 24 g-index
79 all docs	79 docs citations	79 times ranked	615 citing authors

#	Article	IF	Citations
1	161Dy synchrotron-radiation-based MÃ¶ssbauer absorption spectroscopy. Hyperfine Interactions, 2022, 243, 1.	0.5	2
2	Rayleigh Scattering of Synchrotron MÃ¶ssbauer Radiation Using a Variable Bandwidth Nuclear Bragg Monochromator. Journal of the Physical Society of Japan, 2022, 91, .	1.6	2
3	Synchrotron-Radiation-Based Energy-Domain MÃ¶ssbauer Spectroscopy, Nuclear Resonant Inelastic Scattering, and Quasielastic Scattering Using MÃ¶ssbauer Gamma Rays. Topics in Applied Physics, 2021, , 57-104.	0.8	0
4	Synchrotron MÃ¶ssbauer spectroscopic and x-ray diffraction study of ferropericlase in the high-pressure range of the lower mantle region. Physical Review B, 2021, 103, .	3.2	7
5	Mixed-valence state and structure changes of EuH (xâ€¯=â€¯2 and 2â€¯<â€¯xâ€¯â‰¤â€¯3) under high-pressure H2 atmosphere. Journal of Alloys and Compounds, 2021, 865, 158637.	5.5	2
6	Application of synchrotron-radiation-based MÃ¶ssbauer spectroscopy to 193Ir 73ÂkeV transition. Hyperfine Interactions, 2021, 242, 1.	0.5	2
7	Direct observation of magnetic Friedel oscillation at Fe(001) surface. Hyperfine Interactions, 2021, 242, 1.	0.5	1
8	Microscopic molecular translational dynamics in cholesteric and cholesteric blue phases. Hyperfine Interactions, 2020, 241, 1.	0.5	2
9	Valence Transition of EuRh₂Si₂ Studied by Synchrotron MÃ¶ssbauer Spectroscopy. Journal of the Physical Society of Japan, 2020, 89, 104703.	1.6	2
10	Magnetic Friedel Oscillation at the Fe(001) Surface: Direct Observation by Atomic-Layer-Resolved Synchrotron Radiation Fe57 MÃ¶ssbauer Spectroscopy. Physical Review Letters, 2020, 125, 236806.	7.8	22
11	Simultaneous Measurement of Î³-ray and Conversion Electron MÃ¶ssbauer Spectra of Fe Films under Total Reflection Conditions Using Synchrotron MÃ¶ssbauer Source. Journal of the Physical Society of Japan, 2020, 89, 054707.	1.6	5
12	Development of a measurement system enabling the reconstruction of Î³-ray time spectra by simultaneous recording of energy and time information. Japanese Journal of Applied Physics, 2019, 58, 108001.	1.5	0
13	Development of 166Er MÃ¶ssbauer spectroscopy in KURNS. Hyperfine Interactions, 2019, 240, 1.	0.5	1
14	Nuclear Bragg reflection of ⁵⁷FeBO₃ in radio-frequency magnetic field observed with Si-APD linear array detector. Japanese Journal of Applied Physics, 2019, 58, 016501.	1.5	0
15	Synchrotron-radiation-based MÃ¶ssbauer absorption spectroscopy with high resonant energy nuclides. Hyperfine Interactions, 2019, 240, 1.	0.5	2
16	Direct observation of interlayer molecular translational motion in a smectic phase and determination of the layer order parameter. Physical Review Research, 2019, 1, .	3.6	4
17	Nuclear resonant scattering experiment with fast time response: Photonuclear excitation of Hg201. Physical Review C, 2018, 97, .	2.9	10
18	57Fe nuclear resonant inelastic scattering of Fe1.1Te. Hyperfine Interactions, 2018, 239, 1.	0.5	1

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19	Valence fluctuating compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"><mml:mi>Î±</mml:mi></mml:math>-YbAlB4 studied by 174Yb MÃ¶ssbauer spectroscopy and X-ray diffraction using synchrotron radiation. Physica B: Condensed Matter, 2018, 536, 162-164.	2.7	3
20	Precise determination of hyperfine interactions and second-order doppler shift in 149Sm MÃ¶ssbauer transition. Hyperfine Interactions, 2018, 239, 1.	0.5	7
21	Variable-bandwidth 57Fe Synchrotron MÃ¶ssbauer Source. Journal of the Physical Society of Japan, 2018, 87, 093001.	1.6	9
22	Electronic properties and compressional behavior of Feâ€“Si alloys at high pressure. American Mineralogist, 2018, 103, 1959-1965.	1.9	4
23	61Ni synchrotron-radiation-based MÃ¶ssbauer absorption spectroscopy of Ni nanoparticle composites. Hyperfine Interactions, 2018, 239, 1.	0.5	1
24	Ferrimagnetic Cage Framework in Ca₁₂Fe₁₀Si₄O₃₂Cl₆. Inorganic Chemistry, 2017, 56, 566-572.	4.0	1
25	Synchrotron radiation-based quasi-elastic scattering using time-domain interferometry with multi-line gamma rays. Scientific Reports, 2017, 7, 12558.	3.3	24
26	Evolution of synchrotron-radiation-based MÃ¶ssbauer absorption spectroscopy for various isotopes. Hyperfine Interactions, 2017, 238, 1.	0.5	5
27	Thickness dependence of Morin transition temperature in iridium-doped hematite layers studied through nuclear resonant scattering. Hyperfine Interactions, 2017, 238, 1.	0.5	8
28	Effect of silica nanoparticle filler on microscopic polymer Î±-relaxation dynamics. Hyperfine Interactions, 2017, 238, 1.	0.5	4
29	Spin state and electronic environment of iron in basaltic glass in the lower mantle. American Mineralogist, 2017, 102, 2106-2112.	1.9	7
30	Synchrotron-based Nickel MÃ¶ssbauer Spectroscopy. Inorganic Chemistry, 2016, 55, 6866-6872.	4.0	14
31	High-Pressure-Hydrogen-Induced Spin Reconfiguration in GdFe2 Observed by 57Fe-Polarized Synchrotron Radiation MÃ¶ssbauer Spectroscopy with Nuclear Bragg Monochromator. Journal of the Physical Society of Japan, 2016, 85, 123707.	1.6	2
32	Synchrotron radiation based MÃ¶ssbauer absorption spectroscopy of various nuclides. Hyperfine Interactions, 2016, 237, 1.	0.5	4
33	Observation of Flux-Grown Î±-Fe₂O₃ Single Crystal at the Morin Transition by ⁵⁷Fe Synchrotron Radiation MÃ¶ssbauer Diffraction. Journal of the Physical Society of Japan, 2016, 85, 054705.	1.6	10
34	Magnetic and spin transitions in wÃ¼stite: A synchrotron MÃ¶ssbauer spectroscopic study. Physical Review B, 2016, 93, .	3.2	15
35	Synchrotron Radiation MÃ¶ssbauer Spectroscopy Using ¹⁴⁹Sm Nuclei. Journal of the Physical Society of Japan, 2016, 85, 083704.	1.6	14
36	61Ni synchrotron radiation-based MÃ¶ssbauer spectroscopy of nickel-based nanoparticles with hexagonal structure. Scientific Reports, 2016, 6, 20861.	3.3	9

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37	Slow dynamics in glycerol: collective de gennes narrowing and independent angstrom motion. Hyperfine Interactions, 2016, 237, 1.	0.5	6
38	Synchrotron radiation-based 61Ni MÃ¶ssbauer spectroscopic study of Li(Ni1/3Mn1/3Co1/3)O 2 cathode materials of lithium ion rechargeable battery. Hyperfine Interactions, 2016, 237, 1.	0.5	6
39	Dynamics of iodine anions in KI and LiI aqueous solutions studied by 127I nuclear resonant quasi-elastic scattering. Hyperfine Interactions, 2016, 237, 1.	0.5	1
40	The study of the magnetization process of fe film by magnetic Compton scattering and MÃ¶ssbauer spectroscopy. Journal of Magnetism and Magnetic Materials, 2016, 408, 41-45.	2.3	4
41	Synchrotron-radiation-based MÃ¶ssbauer spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>40</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>in antiferromagnetic potassium nanoclusters in sodalite. Physical Review B, 2015, 91, .	3.2	11
42	⁵⁷Fe polarization-dependent synchrotron MÃ¶ssbauerÂspectroscopy using a diamond phaseÂplate and an iron borate nuclear BraggÂmonochromator. Journal of Synchrotron Radiation, 2015, 22, 427-435.	2.4	11
43	Attempt to measure magnetic hyperfine fields in metallic thin wires under spin Hall conditions using synchrotron-radiation MÃ¶ssbauer spectroscopy. Journal of Applied Physics, 2015, 117, 17E126.	2.5	1
44	Synchrotron radiation-based MÃ¶ssbauer spectra of 174Yb measured with internal conversion electrons. Applied Physics Letters, 2014, 104, .	3.3	24
45	Development of 125Te synchrotron-radiation-based MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2014, 226, 687-691.	0.5	4
46	High-pressure radiative conductivity of dense silicate glasses with potential implications for dark magmas. Nature Communications, 2014, 5, 5428.	12.8	19
47	The spin state of iron in Fe3+-bearing Mg-perovskite and its crystal chemistry at high pressure. American Mineralogist, 2014, 99, 1555-1561.	1.9	7
48	¹²⁵Te Synchrotron-Radiation-Based MÃ¶ssbauer Spectroscopy of Fe_{1.1}Te and FeTe_{0.5}Se_{0.5}. Journal of the Physical Society of Japan, 2014, 83, 044708.	1.6	3
49	In situ synchrotron 57Fe MÃ¶ssbauer spectroscopy of RFe2 (R=Y,Gd) hydrides synthesized under ultra-high-pressure hydrogen. Journal of Alloys and Compounds, 2013, 580, S264-S267.	5.5	8
50	Studies on spintronics-related thin films using synchrotron-radiation-based MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2013, 217, 127-135.	0.5	18
51	An in situ MÃ¶ssbauer study using synchrotron radiation. , 2013, , 139-142.		0
52	Synchrotron radiation 57Fe-MÃ¶ssbauer spectroscopy using nuclear monochromator. , 2013, , 97-100.		0
53	MÃ¶ssbauer Study of the SmFe₂Hydride through¹⁴⁹Sm and⁵⁷Fe. Journal of the Physical Society of Japan, 2012, 81, 034714.	1.6	5
54	An in situ MÃ¶ssbauer study using synchrotron radiation. Hyperfine Interactions, 2012, 204, 139-142.	0.5	2

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55	Synchrotron radiation 57Fe-MÃ¶ssbauer spectroscopy using nuclear monochromator. Hyperfine Interactions, 2012, 204, 97-100.	0.5	5
56	Grazing-incidence synchrotron-radiation⁵⁷Fe-MÃ¶ssbauer spectroscopy using a nuclear BraggÂmonochromator and its application to theÂstudy of magnetic thin films. Journal of Synchrotron Radiation, 2012, 19, 198-204.	2.4	20
57	Studies on spintronics-related thin films using synchrotron-radiation-based MÃ¶ssbauer spectroscopy. , 2012, , 127-135.		0
58	Structural and Valence Changes of Europium Hydride Induced by Application of High-Pressure<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 107, 025501.	7.8	34
59	MÃ¶ssbauer spectroscopy in the energy domain using synchrotron radiation. Journal of Physics: Conference Series, 2010, 217, 012002.	0.4	17
60	Anisotropic phonon density of states in FePt nanoparticles withL10structure. Physical Review B, 2010, 81, .	3.2	9
61	A Spectrometer for Rayleigh Scattering of MÃ¶ssbauer Radiation Using Synchrotron Radiation. Japanese Journal of Applied Physics, 2009, 48, 120221.	1.5	9
62	Development of an energy-domain⁵⁷Fe-MÃ¶ssbauer spectrometer using synchrotron radiation and its application to ultrahigh-pressure studies with a diamond anvil cell. Journal of Synchrotron Radiation, 2009, 16, 723-729.	2.4	76
63	Synchrotron-Radiation-Based MÃ¶ssbauer Spectroscopy. Physical Review Letters, 2009, 102, 217602.	7.8	83
64	Iron-specific phonon density of states in the superconductorsLaFeAsO1â^'xFxandLa1â^'xCaxFePO. Physical Review B, 2008, 78, .	3.2	27
65	Conversion Electron and X-ray MÃ¶ssbauer Spectroscopies Using Synchrotron Radiation. Japanese Journal of Applied Physics, 2008, 47, 7136-7139.	1.5	5
66	Development of neV-Resolution Spectroscopy Using Synchrotron-Based ⁵⁷Fe MÃ¶ssbauer Radiation. Japanese Journal of Applied Physics, 2008, 47, 8087.	1.5	17
67	Synchrotron Radiation MÃ¶ssbauer Spectroscopy Using Doppler-shifted 14.4 keV Single-line ⁵⁷Fe-MÃ¶ssbauer Radiation. Japanese Journal of Applied Physics, 2007, 46, L703.	1.5	14
68	Variable-Frequency Nuclear Monochromator Using Single-Line Pure Nuclear Bragg Reflection of Oscillating57FeBO3Single Crystal. Japanese Journal of Applied Physics, 2007, 46, L930-L932.	1.5	16
69	Generation and Application of Ultrahigh Monochromatic X-ray Using High-Quality57FeBO3Single Crystal. Japanese Journal of Applied Physics, 2007, 46, 821-825.	1.5	37
70	Ultrahigh-Pressure Measurement in the Multimegabar Range by Energy-Domain Synchrotron Radiation57Fe-MÃ¶ssbauer Spectroscopy Using Focused X-rays. Japanese Journal of Applied Physics, 2007, 46, L382-L384.	1.5	11
71	Dependence of Incoherent Nuclear Resonant Scattering of Synchrotron Radiation on the Number of Resonant Nuclei. Journal of the Physical Society of Japan, 2007, 76, 023710.	1.6	0
72	High-energy-resolution monochromator for nuclear resonant scattering of synchrotron radiation by Te-125 at 35.49 keV. , 2007, , .		7

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73	Nuclear Resonant Scattering of Synchrotron Radiation by Yb Nuclides. Journal of the Physical Society of Japan, 2006, 75, 094716.	1.6	2
74	Nuclear excitation by electron transition onAu197by photoionization around theKâ˜’absorption edge. Physical Review C, 2006, 74, .	2.9	23
75	Nuclear Resonant Scattering of Synchrotron Radiation by158Gd. Journal of the Physical Society of Japan, 2005, 74, 3122-3123.	1.6	4