

Michael Hu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

4,284
citations

35
h-index

61
g-index

145
ext. papers

4,841
ext. citations

6.8
avg. IF

4.86
L-index

#	Paper	IF	Citations
140	Structural, redox and isotopic behaviors of iron in geological silicate glasses: A NRIXS study of Lamb-Mössbauer factors and force constants. <i>Geochimica Et Cosmochimica Acta</i> , 2022 , 321, 184-184	5.5	0
139	High-throughput nuclear resonance time domain interferometry using annular slits.. <i>Journal of Synchrotron Radiation</i> , 2022 , 29, 677-686	2.4	
138	Onset of anharmonicity and thermal conductivity in SnSe. <i>Physical Review B</i> , 2021 , 104,	3.3	1
137	Iron, magnesium, and titanium isotopic fractionations between garnet, ilmenite, fayalite, biotite, and tourmaline: Results from NRIXS, ab initio, and study of mineral separates from the Moosilauke metapelite. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 302, 18-45	5.5	8
136	Fe Mössbauer isomer shift of pure iron and iron oxides at high pressure-An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2021 , 154, 214104	3.9	1
135	Heating events in the nascent solar system recorded by rare earth element isotopic fractionation in refractory inclusions. <i>Science Advances</i> , 2021 , 7,	14.3	11
134	Iron force constants of bridgmanite at high pressure: Implications for iron isotope fractionation in the deep mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 294, 215-231	5.5	0
133	Effects of Noncovalent Interactions on High-Spin Fe(IV)-Oxido Complexes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11804-11817	16.4	20
132	Exploring the Vibrational Side of Spin-Phonon Coupling in Single-Molecule Magnets via Dy Nuclear Resonance Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8818-8822	16.4	6
131	Untersuchung von Schwingungen in Bezug auf Spin-Phonon-Kopplung in Einzelmolekülmagneten mittels nuklearer inelastischer Streuung am ¹⁶¹ Dy-Kern. <i>Angewandte Chemie</i> , 2020 , 132, 8902-8907	3.6	3
130	Influence of hydrogenation on the vibrational density of states of magnetocaloric LaFe _{11.4} Si _{1.6} H _{1.6} . <i>Physical Review B</i> , 2020 , 101,	3.3	8
129	The influence of phonon softening on the superconducting critical temperature of Sn nanostructures. <i>Scientific Reports</i> , 2020 , 10, 5729	4.9	6
128	Interface-related magnetic and vibrational properties in Fe/MgO heterostructures from nuclear resonant spectroscopy and first-principles calculations. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
127	Elastic and magnetic properties of Fe ₃ P up to core pressures: Phosphorus in the Earth's core. <i>Earth and Planetary Science Letters</i> , 2020 , 531, 115974	5.3	5
126	Exploring the Limits of Dative Boratrane Bonding: Iron as a Strong Lewis Base in Low-Valent Non-Heme Iron-Nitrosyl Complexes. <i>Inorganic Chemistry</i> , 2020 , 59, 14967-14982	5.1	6
125	Orbital energy mismatch engenders high-spin ground states in heterobimetallic complexes. <i>Chemical Science</i> , 2020 , 11, 9971-9977	9.4	3
124	Operando NRIXS and XAFS Investigation of Segregation Phenomena in Fe-Cu and Fe-Ag Nanoparticle Catalysts during CO ₂ Electroreduction. <i>Angewandte Chemie</i> , 2020 , 132, 22856-22863	3.6	0

123	Operando NRIXS and XAFS Investigation of Segregation Phenomena in Fe-Cu and Fe-Ag Nanoparticle Catalysts during CO Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22667-22674	16.4	16
122	Röntgenbild: 161Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions (Angew. Chem. 11/2019). <i>Angewandte Chemie</i> , 2019 , 131, 3690-3690	3.6	
121	Stable Ferrous Mononitroxyl {FeNO} Complex with a Hindered Hydrotris(pyrazolyl)borate Coligand: Structure, Spectroscopic Characterization, and Reactivity Toward NO and O. <i>Inorganic Chemistry</i> , 2019 , 58, 4059-4062	5.1	12
120	161Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. <i>Angewandte Chemie</i> , 2019 , 131, 3482-3487	3.6	3
119	Lattice dynamics and elasticity in thermoelectric Mg ₂ Si _{1-x} Sn _x . <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
118	Experimental observation of electron-phonon coupling enhancement in Sn nanowires caused by phonon confinement effects. <i>Physical Review B</i> , 2019 , 99,	3.3	7
117	Electronic Structures of an [Fe(NNR)] Redox Series: Ligand Noninnocence and Implications for Catalytic Nitrogen Fixation. <i>Inorganic Chemistry</i> , 2019 , 58, 3535-3549	5.1	13
116	Influence of ligand substitution on magnetic hyperfine interaction in Dy ⁶⁺ -based single-molecule magnets/toroids. <i>Hyperfine Interactions</i> , 2019 , 240, 1	0.8	1
115	Iron isotopic fractionation in mineral phases from Earth's lower mantle: Did terrestrial magma ocean crystallization fractionate iron isotopes?. <i>Earth and Planetary Science Letters</i> , 2019 , 506, 113-122	5.3	14
114	Synthetic Model Complex of the Key Intermediate in Cytochrome P450 Nitric Oxide Reductase. <i>Inorganic Chemistry</i> , 2019 , 58, 1398-1413	5.1	9
113	Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3444-3449	16.4	10
112	NRVS Studies of the Peroxide Shunt Intermediate in a Rieske Dioxygenase and Its Relation to the Native Fe O Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5544-5559	16.4	20
111	The Semireduced Mechanism for Nitric Oxide Reduction by Non-Heme Diiron Complexes: Modeling Flavodiiron Nitric Oxide Reductases. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2562-2574	16.4	43
110	Structural characterization of a non-heme iron active site in zeolites that hydroxylates methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4565-4570	11.5	42
109	Moment-Volume Coupling in La(Fe _{1-x} Si _x) ₁₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700465	1.3	9
108	Experimentally determined effects of olivine crystallization and melt titanium content on iron isotopic fractionation in planetary basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 238, 580-598	5.5	14
107	Determining the vibrational entropy change in the giant magnetocaloric material LaFe _{11.6} Si _{1.4} by nuclear resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2018 , 98,	3.3	8
106	How Does a Heme Carbene Differ from Diatomic Ligated (NO, CO, and CN) Analogues in the Axial Bond?. <i>Inorganic Chemistry</i> , 2018 , 57, 8788-8795	5.1	6

105	Terminal Hydride Species in [FeFe]-Hydrogenases Are Vibrationally Coupled to the Active Site Environment. <i>Angewandte Chemie</i> , 2018 , 130, 10765-10769	3.6	3
104	Influence of interfaces on the phonon density of states of nanoscale metallic multilayers: Phonon confinement and localization. <i>Physical Review B</i> , 2018 , 98,	3.3	9
103	Non-heme High-Spin {FeNO} Complexes: One Ligand Platform Can Do It All. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11341-11359	16.4	22
102	Terminal Hydride Species in [FeFe]-Hydrogenases Are Vibrationally Coupled to the Active Site Environment. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10605-10609	16.4	21
101	SciPhon: a data analysis software for nuclear resonant inelastic X-ray scattering with applications to Fe, Kr, Sn, Eu and Dy. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 1581-1599	2.4	21
100	Nuclear Resonance Vibrational Spectroscopy Definition of O Intermediates in an Extradiol Dioxygenase: Correlation to Crystallography and Reactivity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16495-16513	16.4	12
99	Microscopic phase diagram of LaFeAsO single crystals under pressure. <i>Physical Review B</i> , 2018 , 98,	3.3	1
98	Mechanism of selective benzene hydroxylation catalyzed by iron-containing zeolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12124-12129	11.5	8
97	Experimental constraints on the sound velocities of cementite Fe ₃ C to core pressures. <i>Earth and Planetary Science Letters</i> , 2018 , 494, 164-171	5.3	20
96	Iron isotopic fractionation between silicate mantle and metallic core at high pressure. <i>Nature Communications</i> , 2017 , 8, 14377	17.4	26
95	Peroxide Activation for Electrophilic Reactivity by the Binuclear Non-heme Iron Enzyme AurF. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7062-7070	16.4	38
94	Ferric Heme-Nitrosyl Complexes: Kinetically Robust or Unstable Intermediates?. <i>Inorganic Chemistry</i> , 2017 , 56, 10513-10528	5.1	30
93	Operando Phonon Studies of the Protonation Mechanism in Highly Active Hydrogen Evolution Reaction Pentlandite Catalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14360-14363	16.4	42
92	Development of an integrated four-channel fast avalanche-photodiode detector system with nanosecond time resolution. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 870, 43-49	1.2	2
91	Lattice dynamics in Sn nanoislands and cluster-assembled films. <i>Physical Review B</i> , 2017 , 95,	3.3	5
90	A Combined Probe-Molecule, Mössbauer, Nuclear Resonance Vibrational Spectroscopy, and Density Functional Theory Approach for Evaluation of Potential Iron Active Sites in an Oxygen Reduction Reaction Catalyst. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16283-16290	3.8	60
89	A compact membrane-driven diamond anvil cell and cryostat system for nuclear resonant scattering at high pressure and low temperature. <i>Review of Scientific Instruments</i> , 2017 , 88, 125109	1.7	9
88	Impact of lattice dynamics on the phase stability of metamagnetic FeRh: Bulk and thin films. <i>Physical Review B</i> , 2016 , 94,	3.3	32

87	Magnetism of europium under extreme pressures. <i>Physical Review B</i> , 2016 , 93,	3.3	12
86	Nitrosylation of Nitric-Oxide-Sensing Regulatory Proteins Containing [4Fe-4S] Clusters Gives Rise to Multiple Iron-Nitrosyl Complexes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14575-14579	16.4	27
85	Some notes on data analysis for nuclear resonant inelastic x-ray scattering. <i>Hyperfine Interactions</i> , 2016 , 237, 1	0.8	5
84	Vibrational dynamics (IR, Raman, NRVS) and a DFT study of a new antitumor tetranuclearstannoxane cluster, Sn(IV)-oxo-{di-o-vanillin} dimethyl dichloride. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17805-9	3.6	6
83	Temperature of Earth's core constrained from melting of Fe and Fe _{0.9} Ni _{0.1} at high pressures. <i>Earth and Planetary Science Letters</i> , 2016 , 447, 72-83	5.3	34
82	Confined lattice dynamics of single and quadruple SnSe bilayers in [(SnSe)(1.04)] _m [MoSe ₂] _n ferecrystals. <i>Nanoscale</i> , 2016 , 8, 856-61	7.7	2
81	Seismic parameters of hcp-Fe alloyed with Ni and Si in the Earth's inner core. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 610-623	3.6	11
80	3D Motions of Iron in Six-Coordinate {FeNO}(7) Hemes by Nuclear Resonance Vibration Spectroscopy. <i>Chemistry - A European Journal</i> , 2016 , 22, 6323-6332	4.8	4
79	Unusual Synthetic Pathway for an {Fe(NO) ₂ }(9) Dinitrosyl Iron Complex (DNIC) and Insight into DNIC Electronic Structure via Nuclear Resonance Vibrational Spectroscopy. <i>Inorganic Chemistry</i> , 2016 , 55, 5485-501	5.1	48
78	Phonon anharmonicity and negative thermal expansion in SnSe. <i>Physical Review B</i> , 2016 , 94,	3.3	68
77	Nuclear resonant inelastic X-ray scattering at high pressure and low temperature. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 760-5	2.4	11
76	Element-resolved thermodynamics of magnetocaloric LaFe(13-x)Si(x). <i>Physical Review Letters</i> , 2015 , 114, 057202	7.4	59
75	Fast temperature spectrometer for samples under extreme conditions. <i>Review of Scientific Instruments</i> , 2015 , 86, 013105	1.7	7
74	Recent advances in biosynthetic modeling of nitric oxide reductases and insights gained from nuclear resonance vibrational and other spectroscopic studies. <i>Inorganic Chemistry</i> , 2015 , 54, 9317-29	5.1	20
73	Spinel Olivine Pyroxene equilibrium iron isotopic fractionation and applications to natural peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 169, 184-199	5.5	44
72	Ultra-stable sub-meV monochromator for hard X-rays. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 1155-624		4
71	Reduced partition function ratios of iron and oxygen in goethite. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 151, 19-33	5.5	30
70	Mechanisms for pressure-induced crystal-crystal transition, amorphization, and devitrification of SnI ₄ . <i>Journal of Chemical Physics</i> , 2015 , 143, 164508	3.9	8

69	Anisotropic iron motion in nitrosyl iron porphyrinates: natural and synthetic hemes. <i>Inorganic Chemistry</i> , 2014 , 53, 2582-90	5.1	6
68	Magma redox and structural controls on iron isotope variations in Earth's mantle and crust. <i>Earth and Planetary Science Letters</i> , 2014 , 398, 127-140	5.3	155
67	Microfocusing options for the inelastic X-ray scattering beamline at sector 3 of the Advanced Photon Source. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 488-96	2.4	
66	Comprehensive Fe-ligand vibration identification in {FeNO}6 hemes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 18100-10	16.4	22
65	Vibrational dynamics of the host framework in Sn clathrates. <i>Physical Review B</i> , 2014 , 90,	3.3	4
64	Hidden carbon in Earth's inner core revealed by shear softening in dense Fe7C3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17755-8	11.5	74
63	Quantitative vibrational dynamics of the metal site in a tin porphyrin: an IR, NRVS, and DFT study. <i>Inorganic Chemistry</i> , 2013 , 52, 9948-53	5.1	6
62	Probing heme vibrational anisotropy: an imidazole orientation effect?. <i>Inorganic Chemistry</i> , 2013 , 52, 11361-9	5.1	9
61	Changes in vibrational entropy during the early stages of chemical unmixing in fcc Cu8% Fe. <i>Acta Materialia</i> , 2013 , 61, 7466-7472	8.4	1
60	Electronic structure and biologically relevant reactivity of low-spin {FeNO}8 porphyrin model complexes: new insight from a bis-picket fence porphyrin. <i>Inorganic Chemistry</i> , 2013 , 52, 7766-80	5.1	94
59	Interplay between lattice dynamics and superconductivity in Nb3Sn thin films. <i>Physical Review B</i> , 2013 , 88,	3.3	5
58	Moments in nuclear resonant inelastic x-ray scattering and their applications. <i>Physical Review B</i> , 2013 , 87,	3.3	30
57	A general moment NRIXS approach to the determination of equilibrium Fe isotopic fractionation factors: Application to goethite and jarosite. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 94, 254-275	5.5	83
56	Phonon density of states of self-assembled isolated Fe-rich Fe-Pt alloy nanoclusters. <i>Physical Review B</i> , 2009 , 80,	3.3	21
55	Effects of vacancies on phonon entropy of B2 FeAl. <i>Physical Review B</i> , 2009 , 80,	3.3	5
54	Synchrotron Mössbauer spectroscopic study of ferropicriase at high pressures and temperatures. <i>American Mineralogist</i> , 2009 , 94, 594-599	2.9	12
53	Another mechanism for the insulator-metal transition observed in Mott insulators. <i>Physical Review B</i> , 2008 , 77,	3.3	142
52	Experimental determination of the elasticity of iron at high pressure. <i>Journal of Geophysical Research</i> , 2008 , 113,		34

51	Atomic form-factor measurements in the low-momentum transfer region for Li, Be, and Al by inelastic x-ray scattering. <i>Physical Review B</i> , 2008 , 77,	3.3	17
50	Inelastic x-ray scattering of dense solid oxygen: evidence for intermolecular bonding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11640-4	11.5	44
49	Pressure-induced valence change in YbAl ₃ : A combined high-pressure inelastic x-ray scattering and theoretical investigation. <i>Physical Review B</i> , 2008 , 78,	3.3	24
48	Pressure-induced loss of electronic interlayer state and metallization in the ionic solid Li ₃ N: Experiment and theory. <i>Physical Review B</i> , 2008 , 78,	3.3	6
47	X-ray Raman scattering study of MgSiO ₃ glass at high pressure: implication for triclustered MgSiO ₃ melt in Earth's mantle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7925-9	11.5	110
46	Bonding changes in single wall carbon nanotubes (SWCNT) on Ti and TiH ₂ addition probed by X-ray Raman scattering. <i>Diamond and Related Materials</i> , 2007 , 16, 1136-1139	3.5	6
45	Pressure-induced electron spin transition in the paramagnetic phase of the GdFe ₃ (BO ₃) ₄ Heisenberg magnet. <i>JETP Letters</i> , 2007 , 84, 518-523	1.2	21
44	Partial phonon densities of states of Fe ⁵⁷ in Fe-Cr: Analysis by a local-order cluster expansion. <i>Physical Review B</i> , 2007 , 75,	3.3	9
43	Electronic bonding transition in compressed SiO ₂ glass. <i>Physical Review B</i> , 2007 , 75,	3.3	71
42	X-ray Raman scattering studies on C ₆₀ fullerenes and multi-walled carbon nanotubes under pressure. <i>Diamond and Related Materials</i> , 2007 , 16, 1250-1253	3.5	45
41	X-ray Raman spectroscopic study of benzene at high pressure. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11635-7	3.4	18
40	Synchrotron Moessbauer Spectroscopy and Resistivity Studies of Iron Oxide Under High Pressure. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 987, 1		
39	X-ray-induced dissociation of H ₂ O and formation of an O ₂ -H ₂ alloy at high pressure. <i>Science</i> , 2006 , 314, 636-8	33.3	77
38	Phase Transitions in Multiferroic BiFeO ₃ . <i>Materials Research Society Symposia Proceedings</i> , 2006 , 987, 1		1
37	Absence of magnetism in hcp iron-nickel at 11 K. <i>Physical Review Letters</i> , 2006 , 97, 087202	7.4	23
36	Pressure-induced electronic spin transition of iron in magnesiowustite-(Mg,Fe)O. <i>Physical Review B</i> , 2006 , 73,	3.3	57
35	Phonon density of states of Sn in textured SnO under high pressure: Comparison of nuclear inelastic x-ray scattering spectra to a shell model. <i>Physical Review B</i> , 2006 , 74,	3.3	18
34	Valence band x-ray emission spectra of compressed germanium. <i>Physical Review Letters</i> , 2006 , 96, 137402	4	9

33	Hard x-ray radiation induced dissociation of N ₂ and O ₂ molecules and the formation of ionic nitrogen oxide phases under pressure. <i>Physical Review B</i> , 2006 , 74,	3-3	13
32	4f delocalization in Gd: inelastic x-ray scattering at ultrahigh pressure. <i>Physical Review Letters</i> , 2006 , 96, 215701	7-4	34
31	Four-reflection BestedlineV-monochromators for 20B0keV synchrotron radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 557, 670-675	1.2	18
30	A synchrotron Mßbauer spectroscopy study of (Mg,Fe)SiO ₃ perovskite up to 120 GPa. <i>American Mineralogist</i> , 2005 , 90, 199-205	2.9	127
29	New cubic phase of Li ₃ N: stability of the N ³⁻ ion to 200 GPa. <i>Physical Review Letters</i> , 2005 , 95, 165503	7-4	40
28	Phase transition with suppression of magnetism in BiFeO ₃ at high pressure. <i>JETP Letters</i> , 2005 , 82, 224-227		41
27	Probing of bonding changes in B ₂ O ₃ glasses at high pressure with inelastic X-ray scattering. <i>Nature Materials</i> , 2005 , 4, 851-854	27	158
26	Spin transition of iron in magnesiowßtite in the Earth's lower mantle. <i>Nature</i> , 2005 , 436, 377-80	50.4	286
25	First-order isostructural Mott transition in highly compressed MnO. <i>Physical Review Letters</i> , 2005 , 94, 115502	7-4	90
24	The formation of sp ³ bonding in compressed BN. <i>Nature Materials</i> , 2004 , 3, 111-4	27	142
23	Phonon Density of States and Elastic Properties of Fe-based Materials under Compression. <i>Hyperfine Interactions</i> , 2004 , 153, 3-15	0.8	7
22	Partial Phonon Density of States of Dysprosium and its Compounds Measured Using Inelastic Nuclear Resonance Scattering. <i>Hyperfine Interactions</i> , 2004 , 153, 17-24	0.8	4
21	Magnetic transition in compressed Fe ₃ C from x-ray emission spectroscopy. <i>Physical Review B</i> , 2004 , 70,	3-3	54
20	Sound velocities of iron-nickel and iron-silicon alloys at high pressures. <i>Geophysical Research Letters</i> , 2003 , 30,	4-9	90
19	Effect of isotopic composition on the lattice parameter of germanium measured by x-ray backscattering. <i>Physical Review B</i> , 2003 , 67,	3-3	35
18	Microscopic dynamics of liquid aluminum oxide. <i>Science</i> , 2003 , 299, 2047-9	33-3	61
17	Measuring velocity of sound with nuclear resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2003 , 67,	3-3	91
16	Theoretical and experimental study of ßn deposited on CdTe(001). <i>Physical Review B</i> , 2003 , 67,	3-3	9

15	Vibrational Dynamics Studies by Nuclear Resonant Inelastic X-Ray Scattering. <i>Hyperfine Interactions</i> , 2002 , 144/145, 3-20	0.8	59
14	High-energy-resolution monochromator for 83Kr nuclear resonant scattering. <i>Review of Scientific Instruments</i> , 2002 , 73, 1608-1610	1.7	16
13	Crystal monochromator with a resolution beyond 10(8). <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 1082-6.4	2.4	20
12	Nuclear inelastic x-ray scattering of FeO to 48 GPa. <i>Physical Review Letters</i> , 2001 , 87, 255501	7.4	63
11	Multiple-beam x-ray diffraction near exact backscattering in silicon. <i>Physical Review B</i> , 2001 , 63,	3.3	28
10	Structure and vibrational dynamics of interfacial Sn layers in Sn/Si multilayers. <i>Physical Review B</i> , 2001 , 64,	3.3	26
9	Phonon density of states of iron up to 153 gigapascals. <i>Science</i> , 2001 , 292, 914-6	33.3	264
8	Phonon density of states in epitaxial FE/CR(0 0 1) superlattices 2000 , 126, 363-366		25
7	Atom clusters and vibrational excitations in chemically-disordered Pt357Fe. <i>Physical Review B</i> , 2000 , 61, 14517-14522	3.3	14
6	Data analysis for inelastic nuclear resonant absorption experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 428, 551-555	1.2	29
5	A high-resolution monochromator for inelastic nuclear resonant scattering experiments using. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 430, 271-276	1.2	14
4	Introduction to nuclear resonant scattering with synchrotron radiation 1998 , 113, 47-58		28
3	Relaxation experiments with synchrotron radiation 1998 , 113, 81-95		4
2	Inelastic nuclear resonant scattering with sub-meV energy resolution. <i>Applied Physics Letters</i> , 1997 , 71, 2112-2114	3.4	59
1	High-resolution monochromator for inelastic scattering studies of high-energy phonons using undulator radiation at the Advanced Photon Source 1997 , 3151, 271		1