

Joerg Raabe

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3387571/publications.pdf>

Version: 2024-02-01

197
papers

9,019
citations

61984

43
h-index

45317

90
g-index

208
all docs

208
docs citations

208
times ranked

9490
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Vortex Gyration Dynamics Unraveled by Time-Resolved Soft X-ray Laminography with Freely Selectable Excitation Frequencies. <i>Nano Letters</i> , 2022, 22, 1971-1977.	9.1	7
2	Nonstationary spin waves in a single rectangular permalloy microstrip under uniform magnetic excitation. <i>Physical Review B</i> , 2022, 105, .	3.2	6
3	Complex free-space magnetic field textures induced by three-dimensional magnetic nanostructures. <i>Nature Nanotechnology</i> , 2022, 17, 136-142.	31.5	39
4	Asynchronous current-induced switching of rare-earth and transition-metal sublattices in ferrimagnetic alloys. <i>Nature Materials</i> , 2022, 21, 640-646.	27.5	19
5	Quantifying signal quality in scanning transmission X-ray microscopy. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 1054-1064.	2.4	2
6	Collective skyrmion motion under the influence of an additional interfacial spin-transfer torque. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
7	Experimental observation of vortex rings in a bulk magnet. <i>Nature Physics</i> , 2021, 17, 316-321.	16.7	42
8	Numerical Ferromagnetic Resonance Experiments in Nanosized Elements. <i>IEEE Magnetics Letters</i> , 2021, 12, 1-5.	1.1	10
9	Spin-Wave Emission from Vortex Cores under Static Magnetic Bias Fields. <i>Nano Letters</i> , 2021, 21, 1584-1590.	9.1	18
10	Field- and Current-Driven Magnetic Domain-Wall Inverter and Diode. <i>Physical Review Applied</i> , 2021, 15, .	3.8	12
11	Photolytic radical persistence due to anoxia in viscous aerosol particles. <i>Nature Communications</i> , 2021, 12, 1769.	12.8	37
12	Néel-type skyrmions and their current-induced motion in van der Waals ferromagnet-based heterostructures. <i>Physical Review B</i> , 2021, 103, .	3.2	110
13	Time-resolved imaging of Å ³ field induced magnetization dynamics in cylindrical magnetic nanowires. <i>Applied Physics Letters</i> , 2021, 118, 172411.	3.3	5
14	Why is my image noisy? A look into the terms contributing to a time-resolved X-ray microscopy image. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1146-1158.	2.4	1
15	Xenon Plasma Focused Ion Beam Milling for Obtaining Soft X-ray Transparent Samples. <i>Crystals</i> , 2021, 11, 546.	2.2	2
16	Control of Stripe-Domain-Wall Magnetization in Multilayers Featuring Perpendicular Magnetic Anisotropy. <i>Physical Review Applied</i> , 2021, 16, .	3.8	5
17	Effects of hydrogen absorption on magnetism in Ni ₈₀ Fe ₂₀ /Y/Pd trilayers. <i>Physical Review B</i> , 2021, 104, .	3.2	2
18	Photochemical degradation of iron(III) citrate/citric acid aerosol quantified with the combination of three complementary experimental techniques and a kinetic process model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 315-338.	4.9	20

#	ARTICLE	IF	CITATIONS
19	Symmetry and curvature effects on spin waves in vortex-state hexagonal nanotubes. <i>Physical Review B</i> , 2021, 104, .	3.2	12
20	Dimensional crossover in spin Hall oscillators. <i>Physical Review B</i> , 2020, 102, .	3.2	10
21	Coupling of Lamb Waves and Spin Waves in Multiferroic Heterostructures. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 1121-1123.	2.5	3
22	Helium Ion Microscopy for Reduced Spin Orbit Torque Switching Currents. <i>Nano Letters</i> , 2020, 20, 7036-7042.	9.1	12
23	Alterations in Sub-Axonal Architecture Between Normal Aging and Parkinson's Diseased Human Brains Using Label-Free Cryogenic X-ray Nanotomography. <i>Frontiers in Neuroscience</i> , 2020, 14, 570019.	2.8	2
24	Time-resolved visualization of the magnetization canting induced by field-like spin-orbit torques. <i>Applied Physics Letters</i> , 2020, 117, 212404.	3.3	4
25	Current-induced dynamical tilting of chiral domain walls in curved microwires. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	3
26	Skyrmion-based artificial synapses for neuromorphic computing. <i>Nature Electronics</i> , 2020, 3, 148-155.	26.0	346
27	Current-driven magnetic domain-wall logic. <i>Nature</i> , 2020, 579, 214-218.	27.8	260
28	Diameter-independent skyrmion Hall angle observed in chiral magnetic multilayers. <i>Nature Communications</i> , 2020, 11, 428.	12.8	89
29	Time-resolved imaging of three-dimensional nanoscale magnetization dynamics. <i>Nature Nanotechnology</i> , 2020, 15, 356-360.	31.5	67
30	Probing the solid-liquid interface with tender x rays: A new ambient-pressure x-ray photoelectron spectroscopy endstation at the Swiss Light Source. <i>Review of Scientific Instruments</i> , 2020, 91, 023103.	1.3	45
31	From 2D STXM to 3D Imaging: Soft X-ray Laminography of Thin Specimens. <i>Nano Letters</i> , 2020, 20, 1305-1314.	9.1	40
32	Optically Inspired Nanomagnonics with Nonreciprocal Spin Waves in Synthetic Antiferromagnets. <i>Advanced Materials</i> , 2020, 32, e1906439.	21.0	58
33	Ion-Irradiation-Induced Cobalt/Cobalt Oxide Heterostructures: Printing 3D Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9858-9864.	8.0	5
34	Kinetics of the Thermal Oxidation of Ir(100) toward IrO ₂ Studied by Ambient-Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3601-3607.	4.6	21
35	Thermal nucleation and high-resolution imaging of submicrometer magnetic bubbles in thin thulium iron garnet films with perpendicular anisotropy. <i>Physical Review Materials</i> , 2020, 4, .	2.4	19
36	Anisotropy-induced spin reorientation in chemically modulated amorphous ferrimagnetic films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	14

#	ARTICLE	IF	CITATIONS
37	<i>PtychoShelves</i> , a versatile high-level framework for high-performance analysis of ptychographic data. <i>Journal of Applied Crystallography</i> , 2020, 53, 574-586.	4.5	54
38	Time-of-arrival detection for time-resolved scanning transmission X-ray microscopy imaging. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1320-1325.	2.4	6
39	Multifocus off-axis zone plates for x-ray free-electron laser experiments. <i>Optica</i> , 2020, 7, 1007.	9.3	13
40	Soft x-ray microscopy with 7 nm resolution. <i>Optica</i> , 2020, 7, 1602.	9.3	31
41	MIMiX: a Multipurpose In situ Microreactor system for X-ray microspectroscopy to mimic atmospheric aerosol processing. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3717-3729.	3.1	5
42	LamNI – an instrument for X-ray scanning microscopy in laminography geometry. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 730-736.	2.4	7
43	Tunnel magnetoresistance angular and bias dependence enabling tuneable wireless communication. <i>Scientific Reports</i> , 2019, 9, 9541.	3.3	7
44	Nanoscale X-ray imaging of spin dynamics in yttrium iron garnet. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	17
45	Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets. <i>Small</i> , 2019, 15, e1904738.	10.0	30
46	Formation of Néel-type skyrmions in an antidot lattice with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2019, 100, .	3.2	18
47	Deterministic Field-Free Skyrmion Nucleation at a Nanoengineered Injector Device. <i>Nano Letters</i> , 2019, 19, 7246-7255.	9.1	56
48	Ab initio nonrigid X-ray nanotomography. <i>Nature Communications</i> , 2019, 10, 2600.	12.8	25
49	Single-shot time-resolved magnetic x-ray absorption at a free-electron laser. <i>Physical Review B</i> , 2019, 99, .	3.2	12
50	Comprehensive 1D and 2D UHV lens changer at PETRA III beamlines. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
51	Coherent Excitation of Heterosymmetric Spin Waves with Ultrashort Wavelengths. <i>Physical Review Letters</i> , 2019, 122, 117202.	7.8	69
52	Soft X-ray microscopy for probing of topical tacrolimus delivery via micelles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 139, 68-75.	4.3	9
53	Emission and propagation of 1D and 2D spin waves with nanoscale wavelengths in anisotropic spin textures. <i>Nature Nanotechnology</i> , 2019, 14, 328-333.	31.5	115
54	Nanomagnets: Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets (<i>Small</i> 52/2019). <i>Small</i> , 2019, 15, 1970287.	10.0	1

#	ARTICLE	IF	CITATIONS
55	Thermodynamics and Exchange Stiffness of Asymmetrically Sandwiched Ultrathin Ferromagnetic Films with Perpendicular Anisotropy. <i>Physical Review Applied</i> , 2019, 12, .	3.8	13
56	Direct observation of coherent magnons with suboptical wavelengths in a single-crystalline ferrimagnetic insulator. <i>Physical Review B</i> , 2019, 100, .	3.2	24
57	Three-dimensional imaging of integrated circuits with macro- to nanoscale zoom. <i>Nature Electronics</i> , 2019, 2, 464-470.	26.0	96
58	Dynamic Imaging of the Delay- and Tilt-Free Motion of Néel Domain Walls in Perpendicularly Magnetized Superlattices. <i>Nano Letters</i> , 2019, 19, 375-380.	9.1	13
59	Fast positioning for X-ray scanning microscopy by a combined motion of sample and beam-defining optics. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 504-509.	2.4	14
60	Design and performance of a new setup for spatially resolved transmission X-ray photoelectron spectroscopy at the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 785-792.	2.4	4
61	Alignment methods for nanotomography with deep subpixel accuracy. <i>Optics Express</i> , 2019, 27, 36637.	3.4	36
62	OMNY™ A tOMography Nano crYo stage. <i>Review of Scientific Instruments</i> , 2018, 89, 043706.	1.3	48
63	Origin and Manipulation of Stable Vortex Ground States in Permalloy Nanotubes. <i>Nano Letters</i> , 2018, 18, 2828-2834.	9.1	28
64	Exploiting atomic layer deposition for fabricating sub-10 nm X-ray lenses. <i>Microelectronic Engineering</i> , 2018, 191, 91-96.	2.4	21
65	Tunable geometrical frustration in magnonic vortex crystals. <i>Scientific Reports</i> , 2018, 8, 186.	3.3	12
66	Shape-Dependent Dissolution and Cellular Uptake of Silver Nanoparticles. <i>Langmuir</i> , 2018, 34, 1506-1519.	3.5	60
67	Current-driven dynamics and inhibition of the skyrmion Hall effect of ferrimagnetic skyrmions in GdFeCo films. <i>Nature Communications</i> , 2018, 9, 959.	12.8	301
68	Evolutionary-Optimized Photonic Network Structure in White Beetle Wing Scales. <i>Advanced Materials</i> , 2018, 30, e1702057.	21.0	95
69	Ultra-dense planar metallic nanowire arrays with extremely large anisotropic optical and magnetic properties. <i>Nano Research</i> , 2018, 11, 3519-3528.	10.4	18
70	Controlling optics contamination at the PoLux STXM. <i>Journal of Instrumentation</i> , 2018, 13, C04001-C04001.	1.2	13
71	Sub-100ps Magnetic Imaging at the PoLux Endstation of the Swiss Light Source. <i>Microscopy and Microanalysis</i> , 2018, 24, 452-453.	0.4	8
72	Hard X-ray Magnetic Tomography: A New Technique For The Visualization Of Three Dimensional Magnetic Structures. <i>Microscopy and Microanalysis</i> , 2018, 24, 82-83.	0.4	0

#	ARTICLE	IF	CITATIONS
73	Currentâ€induced Skyrmion Generation through Morphological Thermal Transitions in Chiral Ferromagnetic Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1805461.	21.0	81
74	Discrete Hall resistivity contribution from Néel skyrmions in multilayer nanodiscs. <i>Nature Nanotechnology</i> , 2018, 13, 1161-1166.	31.5	81
75	High-resolution 3D scanning X-ray microscopes at the Swiss Light Source. <i>Microscopy and Microanalysis</i> , 2018, 24, 172-175.	0.4	1
76	Nanoscale spin-wave circuits based on engineered reconfigurable spin-textures. <i>Communications Physics</i> , 2018, 1, .	5.3	74
77	Observation of the out-of-plane magnetization in a mesoscopic ferromagnetic structure superjacent to a superconductor. <i>Applied Physics Letters</i> , 2018, 113, 162601.	3.3	2
78	Thick permalloy films for the imaging of spin texture dynamics in perpendicularly magnetized systems. <i>Physical Review B</i> , 2018, 98, .	3.2	15
79	Status of the PoLux STXM Beamline.. <i>Microscopy and Microanalysis</i> , 2018, 24, 476-477.	0.4	2
80	Deterministic creation and deletion of a single magnetic skyrmion observed by direct time-resolved X-ray microscopy. <i>Nature Electronics</i> , 2018, 1, 288-296.	26.0	108
81	Unexpected field-induced dynamics in magnetostrictive microstructured elements under isotropic strain. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 314001.	1.8	2
82	Diffraction X-ray Optics for Synchrotrons and Free-Electron Lasers. <i>Microscopy and Microanalysis</i> , 2018, 24, 268-269.	0.4	3
83	Imaging Structure and Magnetisation in New Ways Using 4D STEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 180-181.	0.4	1
84	Small-angle X-ray scattering tensor tomography: model of the three-dimensional reciprocal-space map, reconstruction algorithm and angular sampling requirements. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 12-24.	0.1	46
85	Tomographic reconstruction of a three-dimensional magnetization vector field. <i>New Journal of Physics</i> , 2018, 20, 083009.	2.9	35
86	7 nm Spatial Resolution in Soft X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 272-273.	0.4	29
87	Development of a New Soft X-ray Ptychography Spectro-Microscope at the Swiss Light Source (SLS). <i>Microscopy and Microanalysis</i> , 2018, 24, 56-57.	0.4	4
88	High resolution 3D imaging of integrated circuits by x-ray ptychography. , 2018, , .		3
89	Spin textures patterned via thermally assisted magnetic scanning probe lithography for magnonics. , 2018, , .		0
90	Programmability of Co-antidot lattices of optimized geometry. <i>Scientific Reports</i> , 2017, 7, 41157.	3.3	10

#	ARTICLE	IF	CITATIONS
91	High-resolution non-destructive three-dimensional imaging of integrated circuits. <i>Nature</i> , 2017, 543, 402-406.	27.8	316
92	Control of the gyration dynamics of magnetic vortices by the magnetoelastic effect. <i>Physical Review B</i> , 2017, 96, .	3.2	17
93	Spatially and time-resolved magnetization dynamics driven by spin-orbit torques. <i>Nature Nanotechnology</i> , 2017, 12, 980-986.	31.5	217
94	Three-dimensional magnetization structures revealed with X-ray vector nanotomography. <i>Nature</i> , 2017, 547, 328-331.	27.8	221
95	Investigation of the Dzyaloshinskii-Moriya interaction and room temperature skyrmions in W/CoFeB/MgO thin films and microwires. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	74
96	Three-Dimensional Imaging of Biological Tissue by Cryo X-Ray Ptychography. <i>Scientific Reports</i> , 2017, 7, 6291.	3.3	49
97	Single-shot Monitoring of Ultrafast Processes via X-ray Streaking at a Free Electron Laser. <i>Scientific Reports</i> , 2017, 7, 7253.	3.3	9
98	Tunable magnetic vortex resonance in a potential well. <i>Physical Review B</i> , 2017, 96, .	3.2	1
99	Pinning and hysteresis in the field dependent diameter evolution of skyrmions in Pt/Co/Ir superlattice stacks. <i>Scientific Reports</i> , 2017, 7, 15125.	3.3	61
100	OMNY PIN-A versatile sample holder for tomographic measurements at room and cryogenic temperatures. <i>Review of Scientific Instruments</i> , 2017, 88, 113701.	1.3	44
101	Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , .		1
102	<i>In situ</i> membrane bending setup for strain-dependent scanning transmission x-ray microscopy investigations. <i>Review of Scientific Instruments</i> , 2016, 87, 123703.	1.3	4
103	A single probe for imaging photons, electrons and physical forces. <i>Nanotechnology</i> , 2016, 27, 235705.	2.6	1
104	Giant in-plane magnetic anisotropy in epitaxial bcc Co/Fe(110) bilayers. <i>Physical Review B</i> , 2016, 94, .	3.2	17
105	Magnetic vortex cores as tunable spin-wave emitters. <i>Nature Nanotechnology</i> , 2016, 11, 948-953.	31.5	169
106	Publisher's Note: High-resolution hard x-ray magnetic imaging with dichroic ptychography [<i>Phys. Rev. B</i> 94, 064421 (2016)]. <i>Physical Review B</i> , 2016, 94, .	3.2	1
107	High-resolution hard x-ray magnetic imaging with dichroic ptychography. <i>Physical Review B</i> , 2016, 94, .	3.2	30
108	A NeXus/HDF5 based file format for STXM. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4

#	ARTICLE	IF	CITATIONS
109	Additive interfacial chiral interaction in multilayers for stabilization of small individual skyrmions at room temperature. <i>Nature Nanotechnology</i> , 2016, 11, 444-448.	31.5	919
110	Indirect localization of a magnetic domain wall mediated by quasi walls. <i>Scientific Reports</i> , 2015, 5, 9815.	3.3	2
111	Electric field stimulation setup for photoemission electron microscopes. <i>Review of Scientific Instruments</i> , 2015, 86, 083702.	1.3	8
112	Nanoscale measurement of the absolute mass density of polymers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 518-522.	1.8	9
113	Prospects of X-ray photoemission electron microscopy at the first beamline of the Polish synchrotron facility "Solaris". <i>X-Ray Spectrometry</i> , 2015, 44, 317-322.	1.4	7
114	Penetration of spherical and rod-like gold nanoparticles into intact and barrier-disrupted human skin. , 2015, , .		4
115	Error motion compensating tracking interferometer for the position measurement of objects with rotational degree of freedom. <i>Optical Engineering</i> , 2015, 54, 054101.	1.0	34
116	Stacked topological spin textures as emitters for multidimensional spin wave modes. , 2015, , .		2
117	Effect of Deposition Conditions and Annealing Temperature on Tunnel Magnetoresistance and the Structure of MgO-Based Double-Barrier Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	1
118	Confocal soft X-ray scanning transmission microscopy: setup, alignment procedure and limitations. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 113-118.	2.4	8
119	Element-Specific X-Ray Phase Tomography of 3D Structures at the Nanoscale. <i>Physical Review Letters</i> , 2015, 114, 115501.	7.8	80
120	Mass Density and Water Content of Saturated Never-Dried Calcium Silicate Hydrates. <i>Langmuir</i> , 2015, 31, 3779-3783.	3.5	40
121	Nanoscale switch for vortex polarization mediated by Bloch core formation in magnetic hybrid systems. <i>Nature Communications</i> , 2015, 6, 7836.	12.8	32
122	Skyrmions at room temperature in magnetic multilayers. , 2015, , .		4
123	Assessment of the 3D Pore Structure and Individual Components of Preshaped Catalyst Bodies by X-ray Imaging. <i>ChemCatChem</i> , 2015, 7, 413-416.	3.7	64
124	Simultaneous measurement of anisotropic magnetoresistance and observation of magnetic domains by Kerr microscopy. <i>Review of Scientific Instruments</i> , 2014, 85, 123701.	1.3	2
125	The role of space charge in spin-resolved photoemission experiments. <i>New Journal of Physics</i> , 2014, 16, 043031.	2.9	9
126	Topologically confined vortex oscillations in hybrid [Co/Pd]8-Permalloy structures. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	18

#	ARTICLE	IF	CITATIONS
127	STXM goes 3D: Digital reconstruction of focal stacks as novel approach towards confocal soft x-ray microscopy. Ultramicroscopy, 2014, 144, 19-25.	1.9	30
128	Ultrafast reduction of the total magnetization in iron. Applied Physics Letters, 2014, 104, .	3.3	22
129	Printing Nearly-Discrete Magnetic Patterns Using Chemical Disorder Induced Ferromagnetism. Nano Letters, 2014, 14, 435-441.	9.1	79
130	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. Beilstein Journal of Nanotechnology, 2014, 5, 1944-1965.	2.8	119
131	Quantitative Imaging of the Magnetic Configuration of Modulated Nanostructures by Electron Holography. Small, 2014, 10, 5161-5169.	10.0	13
132	X-ray ptychographic computed tomography at 16â€¦nm isotropic 3D resolution. Scientific Reports, 2014, 4, 3857.	3.3	281
133	X-ray photoemission electron microscopy study of the in-plane spin reorientation transitions in epitaxial Fe films on W(110). Journal of Magnetism and Magnetic Materials, 2013, 348, 101-106.	2.3	17
134	Sub-25nm direct write (maskless) X-ray nanolithography. Microelectronic Engineering, 2013, 108, 5-7.	2.4	16
135	Developing a CCD camera with high spatial resolution for RIXS in the soft X-ray range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 47-52.	1.6	16
136	X-ray excited optical luminescence of metal oxide single crystals. Journal of Electron Spectroscopy and Related Phenomena, 2013, 189, 1-4.	1.7	12
137	Dynamic stabilization of nonequilibrium domain configurations in magnetic squares with high amplitude excitations. Physical Review B, 2013, 87, .	3.2	4
138	Topology and Origin of Effective Spin Meron Pairs in Ferromagnetic Multilayer Elements. Physical Review Letters, 2013, 110, 177201.	7.8	55
139	Lateral spin transfer torque induced magnetic switching at room temperature demonstrated by x-ray microscopy. Scientific Reports, 2013, 3, 2945.	3.3	3
140	Improving the spatial resolution of soft X-ray detection using an Electron-Multiplying Charge-Coupled Device. Journal of Instrumentation, 2013, 8, C01046-C01046.	1.2	27
141	An instrument for 3D x-ray nano-imaging. Review of Scientific Instruments, 2012, 83, 073703.	1.3	98
142	Luminescence-based magnetic imaging with scanning x-ray transmission microscopy. Applied Physics Letters, 2012, 101, 083114.	3.3	14
143	Control of vortex pair states by post-deposition interlayer exchange coupling modification. Physical Review B, 2012, 85, .	3.2	11
144	Interlayer-coupled spin vortex pairs and their response to external magnetic fields. Physical Review B, 2012, 85, .	3.2	6

#	ARTICLE	IF	CITATIONS
145	Improving the resolution in soft X-ray emission spectrometers through photon-counting using an Electron Multiplying CCD. <i>Journal of Instrumentation</i> , 2012, 7, C01063-C01063.	1.2	13
146	Biogenic Mn oxide minerals coating in a subsurface granite environment. <i>Chemical Geology</i> , 2012, 322-323, 181-191.	3.3	52
147	Imaging nanostructures in organic semiconductor films with scanning transmission X-ray spectro-microscopy. <i>Synthetic Metals</i> , 2012, 161, 2516-2520.	3.9	16
148	Nanostructure characterization by a combined x-ray absorption/scanning force microscopy system. <i>Nanotechnology</i> , 2012, 23, 475708.	2.6	30
149	Studying nanomagnets and magnetic heterostructures with X-ray PEEM at the Swiss Light Source. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 371-380.	1.7	66
150	Three-Dimensional Structure and Defects in Colloidal Photonic Crystals Revealed by Tomographic Scanning Transmission X-ray Microscopy. <i>Langmuir</i> , 2012, 28, 3614-3620.	3.5	29
151	Direct observation of antiferromagnetically oriented spin vortex states in magnetic multilayer elements. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	18
152	Direct observation of water uptake and release in individual submicrometer sized ammonium sulfate and ammonium sulfate/adipic acid particles using X-ray microspectroscopy. <i>Journal of Aerosol Science</i> , 2011, 42, 38-51.	3.8	32
153	Improving the spatial resolution of a soft X-ray Charge Coupled Device used for Resonant Inelastic X-ray Scattering. <i>Journal of Instrumentation</i> , 2011, 6, C11021-C11021.	1.2	8
154	Aging induced changes on NEXAFS fingerprints in individual combustion particles. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11777-11791.	4.9	17
155	NanoXASâ€”The in situ Combination of Scanning Transmission X-ray and Scanning Probe Microscopy. , 2011, , .		2
156	Element-Specific Magnetic Domain Imaging of (Nd, Dy)-Fe-B Sintered Magnets Using Scanning Transmission X-Ray Microscopy. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2672-2675.	2.1	34
157	Higher Order Suppressor (HOS) for the PolLux Microspectroscopy Beamline at the Swiss Light Source SLS. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	31
158	Fabrication of Fresnel zone plates with 25nm zone width using extreme ultraviolet holography. <i>Microelectronic Engineering</i> , 2010, 87, 854-858.	2.4	12
159	Coaxial arrangement of a scanning probe and an X-ray microscope as a novel tool for nanoscience. <i>Ultramicroscopy</i> , 2010, 110, 1267-1272.	1.9	17
160	High-resolution soft X-ray beamline ADRESS at the Swiss Light Source for resonant inelastic X-ray scattering and angle-resolved photoelectron spectroscopies. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 631-643.	2.4	307
161	Photon Counting System for Time-resolved Experiments in Multibunch Mode. <i>Synchrotron Radiation News</i> , 2010, 23, 26-32.	0.8	33
162	Surface sensitivity in scanning transmission x-ray microspectroscopy using secondary electron detection. <i>Review of Scientific Instruments</i> , 2010, 81, 033704.	1.3	23

#	ARTICLE	IF	CITATIONS
163	An <i>in situ</i> cell to study phase transitions in individual aerosol particles on a substrate using scanning transmission x-ray microspectroscopy. <i>Review of Scientific Instruments</i> , 2010, 81, 113706.	1.3	35
164	Static and optical field enhancement in metallic nanotips studied by two-photon photoemission microscopy and spectroscopy excited by picosecond laser pulses. <i>Applied Physics Letters</i> , 2009, 94, 093508.	3.3	22
165	Advanced X-ray diffractive optics. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012078.	0.4	7
166	Magnetization dynamics of Landau structures: tuning the response of mesoscopic magnetic objects using defects. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 436003.	1.8	6
167	Qualitative detection of single submicron and nanoparticles in human skin by scanning transmission x-ray microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 021015.	2.6	41
168	Application of Synchrotron Radiation Techniques for Model Validation of Advanced Structural Materials. <i>Advanced Engineering Materials</i> , 2009, 11, 459-463.	3.5	1
169	Advanced thin film technology for ultrahigh resolution X-ray microscopy. <i>Ultramicroscopy</i> , 2009, 109, 1360-1364.	1.9	111
170	Investigations of clay colloid aggregates by scanning transmission X-ray microspectroscopy of suspensions. <i>Applied Geochemistry</i> , 2009, 24, 2015-2018.	3.0	2
171	NanoXAS, a novel concept for high resolution microscopy. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012015.	0.4	7
172	First differential phase contrast results from PolLux. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012012.	0.4	0
173	Silicon Fresnel zone plates for high heat load X-ray microscopy. <i>Microelectronic Engineering</i> , 2008, 85, 1241-1244.	2.4	14
174	Measuring magnetic excitations in microstructures using X-ray microscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 588, 494-501.	1.6	24
175	Soft X-ray spectromicroscopy of phase-change microcapsules. <i>Micron</i> , 2008, 39, 275-279.	2.2	15
176	Zircaloy-2 secondary phase precipitate analysis by X-ray microspectroscopy. <i>Talanta</i> , 2008, 75, 402-406.	5.5	18
177	Large-Scale Synthesis of Single-Crystalline Iron Oxide Magnetic Nanorings. <i>Journal of the American Chemical Society</i> , 2008, 130, 16968-16977.	13.7	438
178	PolLux: A new facility for soft x-ray spectromicroscopy at the Swiss Light Source. <i>Review of Scientific Instruments</i> , 2008, 79, 113704.	1.3	222
179	The PolLux Microspectroscopy Beam line at the Swiss Light Source. <i>AIP Conference Proceedings</i> , 2007, , ,	0.4	36
180	Mechanical Design of a Spherical Grating Monochromator for the Microspectroscopy Beamline PolLux at the Swiss Light Source. <i>AIP Conference Proceedings</i> , 2007, , ,	0.4	6

#	ARTICLE	IF	CITATIONS
181	Zone-Doubling Technique to Produce Ultrahigh-Resolution X-Ray Optics. Physical Review Letters, 2007, 99, 264801.	7.8	154
182	Dynamic Vortex-Antivortex Interaction in a Single Cross-Tie Wall. Physical Review Letters, 2007, 99, 167202.	7.8	39
183	Surface characterization of MnxGe_{1-x} and CrMnxGe_{1-x} dilute magnetic semiconductors. Physical Review B, 2007, 75, .	3.2	32
184	Characterization of metallic field emitter array devices fabricated by molding for x-ray free electron laser applications. , 2007, , .		1
185	Imaging excitations in magnetic thin film microstructures. Surface Science, 2007, 601, 5246-5253.	1.9	4
186	Interaction of magnetostatic excitations with 90° domain walls in micrometer-sized permalloy squares. Physical Review B, 2006, 74, .	3.2	11
187	Magnetic domain walls in T-shaped permalloy microstructures. Applied Physics Letters, 2005, 86, 152503.	3.3	4
188	Quantitative Analysis of Magnetic Excitations in Landau Flux-Closure Structures Using Synchrotron-Radiation Microscopy. Physical Review Letters, 2005, 94, 217204.	7.8	155
189	Implementing Subns Time Resolution into Magnetic XRay Microscopies. Physica Scripta, 2005, , 1029.	2.5	1
190	High-resolution imaging of fast magnetization dynamics in magnetic nanostructures. Applied Physics Letters, 2004, 84, 3328-3330.	3.3	144
191	Imaging sub-ns spin dynamics in magnetic nanostructures with Magnetic Transmission X-ray microscopy. AIP Conference Proceedings, 2004, , .	0.4	0
192	Ferromagnet-semiconductor hybrid structures: Hall devices and tunnel junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 137-146.	2.7	4
193	Magnetic imaging with soft X-ray microscopies. European Physical Journal Special Topics, 2003, 104, 471-476.	0.2	8
194	Planar Hall sensors for micro-Hall magnetometry. Journal of Applied Physics, 2002, 91, 7980.	2.5	11
195	Electrodeposition of NiFe and Fe nanopillars. IEEE Transactions on Magnetics, 2001, 37, 2094-2097.	2.1	19
196	Magnetization pattern of ferromagnetic nanodisks. Journal of Applied Physics, 2000, 88, 4437.	2.5	235
197	Observation of a new low-field minimum in magnetically modulated systems. Physica B: Condensed Matter, 1998, 256-258, 405-408.	2.7	1