

Joerg Raabe

List of Publications by Year in descending order

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197
papers

9,019
citations

61984

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45317

90
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208
all docs

208
docs citations

208
times ranked

9490
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Skyrmion-based artificial synapses for neuromorphic computing. <i>Nature Electronics</i> , 2020, 3, 148-155.	26.0	346
4	High-resolution non-destructive three-dimensional imaging of integrated circuits. <i>Nature</i> , 2017, 543, 402-406.	27.8	316
5	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
6	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
7	X-ray ptychographic computed tomography at 16â€¦nm isotropic 3D resolution. <i>Scientific Reports</i> , 2014, 4, 3857.	3.3	281
8	Current-driven magnetic domain-wall logic. <i>Nature</i> , 2020, 579, 214-218.	27.8	260
9	Magnetization pattern of ferromagnetic nanodisks. <i>Journal of Applied Physics</i> , 2000, 88, 4437.	2.5	235
10	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
11	Three-dimensional magnetization structures revealed with X-ray vector nanotomography. <i>Nature</i> , 2017, 547, 328-331.	27.8	221
12	Spatially and time-resolved magnetization dynamics driven by spinâ€“orbit torques. <i>Nature Nanotechnology</i> , 2017, 12, 980-986.	31.5	217
13	Magnetic vortex cores as tunable spin-wave emitters. <i>Nature Nanotechnology</i> , 2016, 11, 948-953.	31.5	169
14	Quantitative Analysis of Magnetic Excitations in Landau Flux-Closure Structures Using Synchrotron-Radiation Microscopy. <i>Physical Review Letters</i> , 2005, 94, 217204.	7.8	155
15	Zone-Doubling Technique to Produce Ultrahigh-Resolution X-Ray Optics. <i>Physical Review Letters</i> , 2007, 99, 264801.	7.8	154
16	High-resolution imaging of fast magnetization dynamics in magnetic nanostructures. <i>Applied Physics Letters</i> , 2004, 84, 3328-3330.	3.3	144
17	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1944-1965.	2.8	119
18	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

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19	Advanced thin film technology for ultrahigh resolution X-ray microscopy. <i>Ultramicroscopy</i> , 2009, 109, 1360-1364.	1.9	111
20	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
21	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
22	An instrument for 3D x-ray nano-imaging. <i>Review of Scientific Instruments</i> , 2012, 83, 073703.	1.3	98
23	Three-dimensional imaging of integrated circuits with macro- to nanoscale zoom. <i>Nature Electronics</i> , 2019, 2, 464-470.	26.0	96
24	Evolutionary-Optimized Photonic Network Structure in White Beetle Wing Scales. <i>Advanced Materials</i> , 2018, 30, e1702057.	21.0	95
25	Diameter-independent skyrmion Hall angle observed in chiral magnetic multilayers. <i>Nature Communications</i> , 2020, 11, 428.	12.8	89
26	Current-Induced Skyrmion Generation through Morphological Thermal Transitions in Chiral Ferromagnetic Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1805461.	21.0	81
27	Discrete Hall resistivity contribution from Néel skyrmions in multilayer nanodiscs. <i>Nature Nanotechnology</i> , 2018, 13, 1161-1166.	31.5	81
28	Element-Specific X-Ray Phase Tomography of 3D Structures at the Nanoscale. <i>Physical Review Letters</i> , 2015, 114, 115501.	7.8	80
29	Printing Nearly-Discrete Magnetic Patterns Using Chemical Disorder Induced Ferromagnetism. <i>Nano Letters</i> , 2014, 14, 435-441.	9.1	79
30	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
31	Nanoscale spin-wave circuits based on engineered reconfigurable spin-textures. <i>Communications Physics</i> , 2018, 1, .	5.3	74
32	Coherent Excitation of Heterosymmetric Spin Waves with Ultrashort Wavelengths. <i>Physical Review Letters</i> , 2019, 122, 117202.	7.8	69
33	Time-resolved imaging of three-dimensional nanoscale magnetization dynamics. <i>Nature Nanotechnology</i> , 2020, 15, 356-360.	31.5	67
34	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
35	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
36	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

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37	Shape-Dependent Dissolution and Cellular Uptake of Silver Nanoparticles. <i>Langmuir</i> , 2018, 34, 1506-1519.	3.5	60
38	Optically Inspired Nanomagnonics with Nonreciprocal Spin Waves in Synthetic Antiferromagnets. <i>Advanced Materials</i> , 2020, 32, e1906439.	21.0	58
39	Deterministic Field-Free Skyrmion Nucleation at a Nanoengineered Injector Device. <i>Nano Letters</i> , 2019, 19, 7246-7255.	9.1	56
40	Topology and Origin of Effective Spin Meron Pairs in Ferromagnetic Multilayer Elements. <i>Physical Review Letters</i> , 2013, 110, 177201.	7.8	55
41	<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
42	Biogenic Mn oxide minerals coating in a subsurface granite environment. <i>Chemical Geology</i> , 2012, 322-323, 181-191.	3.3	52
43	Three-Dimensional Imaging of Biological Tissue by Cryo X-Ray Ptychography. <i>Scientific Reports</i> , 2017, 7, 6291.	3.3	49
44	OMNY™ A tOMography Nano crYo stage. <i>Review of Scientific Instruments</i> , 2018, 89, 043706.	1.3	48
45	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
46	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
47	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
48	Experimental observation of vortex rings in a bulk magnet. <i>Nature Physics</i> , 2021, 17, 316-321.	16.7	42
49	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
50	Mass Density and Water Content of Saturated Never-Dried Calcium Silicate Hydrates. <i>Langmuir</i> , 2015, 31, 3779-3783.	3.5	40
51	From 2D STXM to 3D Imaging: Soft X-ray Laminography of Thin Specimens. <i>Nano Letters</i> , 2020, 20, 1305-1314.	9.1	40
52	Dynamic Vortex-Antivortex Interaction in a Single Cross-Tie Wall. <i>Physical Review Letters</i> , 2007, 99, 167202.	7.8	39
53	Complex free-space magnetic field textures induced by three-dimensional magnetic nanostructures. <i>Nature Nanotechnology</i> , 2022, 17, 136-142.	31.5	39
54	Photolytic radical persistence due to anoxia in viscous aerosol particles. <i>Nature Communications</i> , 2021, 12, 1769.	12.8	37

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55	The PolLux Microspectroscopy Beam line at the Swiss Light Source. AIP Conference Proceedings, 2007, , .	0.4	36
56	Alignment methods for nanotomography with deep subpixel accuracy. Optics Express, 2019, 27, 36637.	3.4	36
57	An <i>in situ</i> cell to study phase transitions in individual aerosol particles on a substrate using scanning transmission x-ray microspectroscopy. Review of Scientific Instruments, 2010, 81, 113706.	1.3	35
58	Tomographic reconstruction of a three-dimensional magnetization vector field. New Journal of Physics, 2018, 20, 083009.	2.9	35
59	Element-Specific Magnetic Domain Imaging of (Nd, Dy)-Fe-B Sintered Magnets Using Scanning Transmission X-Ray Microscopy. IEEE Transactions on Magnetics, 2011, 47, 2672-2675.	2.1	34
60	Error motion compensating tracking interferometer for the position measurement of objects with rotational degree of freedom. Optical Engineering, 2015, 54, 054101.	1.0	34
61	Photon Counting System for Time-resolved Experiments in Multibunch Mode. Synchrotron Radiation News, 2010, 23, 26-32.	0.8	33
62	Surface characterization of Mn _x Ge _{1-x} and Cr _y Mn _x Ge _{1-x-y} dilute magnetic semiconductors. Physical Review B, 2007, 75, .	3.2	32
63	Direct observation of water uptake and release in individual submicrometer sized ammonium sulfate and ammonium sulfate/adipic acid particles using X-ray microspectroscopy. Journal of Aerosol Science, 2011, 42, 38-51.	3.8	32
64	Nanoscale switch for vortex polarization mediated by Bloch core formation in magnetic hybrid systems. Nature Communications, 2015, 6, 7836.	12.8	32
65	Higher Order Suppressor (HOS) for the PolLux Microspectroscopy Beamline at the Swiss Light Source SLS. AIP Conference Proceedings, 2010, , .	0.4	31
66	Soft x-ray microscopy with 7 nm resolution. Optica, 2020, 7, 1602.	9.3	31
67	Nanostructure characterization by a combined x-ray absorption/scanning force microscopy system. Nanotechnology, 2012, 23, 475708.	2.6	30
68	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
69	High-resolution hard x-ray magnetic imaging with dichroic ptychography. Physical Review B, 2016, 94, .	3.2	30
70	Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets. Small, 2019, 15, e1904738.	10.0	30
71	Three-Dimensional Structure and Defects in Colloidal Photonic Crystals Revealed by Tomographic Scanning Transmission X-ray Microscopy. Langmuir, 2012, 28, 3614-3620.	3.5	29
72	7 nm Spatial Resolution in Soft X-ray Microscopy. Microscopy and Microanalysis, 2018, 24, 272-273.	0.4	29

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73	Origin and Manipulation of Stable Vortex Ground States in Permalloy Nanotubes. Nano Letters, 2018, 18, 2828-2834.	9.1	28
74	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
75	Ab initio nonrigid X-ray nanotomography. Nature Communications, 2019, 10, 2600.	12.8	25
76	Measuring magnetic excitations in microstructures using X-ray microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 494-501.	1.6	24
77	Direct observation of coherent magnons with suboptical wavelengths in a single-crystalline ferrimagnetic insulator. Physical Review B, 2019, 100, .	3.2	24
78	Surface sensitivity in scanning transmission x-ray microspectroscopy using secondary electron detection. Review of Scientific Instruments, 2010, 81, 033704.	1.3	23
79	Static and optical field enhancement in metallic nanotips studied by two-photon photoemission microscopy and spectroscopy excited by picosecond laser pulses. Applied Physics Letters, 2009, 94, 093508.	3.3	22
80	Ultrafast reduction of the total magnetization in iron. Applied Physics Letters, 2014, 104, .	3.3	22
81	Exploiting atomic layer deposition for fabricating sub-10 nm X-ray lenses. Microelectronic Engineering, 2018, 191, 91-96.	2.4	21
82	Kinetics of the Thermal Oxidation of Ir(100) toward IrO ₂ Studied by Ambient-Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 3601-3607.	4.6	21
83	Photochemical degradation of iron(III) citrate/citric acid aerosol quantified with the combination of three complementary experimental techniques and a kinetic process model. Atmospheric Chemistry and Physics, 2021, 21, 315-338.	4.9	20
84	Electrodeposition of NiFe and Fe nanopillars. IEEE Transactions on Magnetics, 2001, 37, 2094-2097.	2.1	19
85	Thermal nucleation and high-resolution imaging of submicrometer magnetic bubbles in thin thulium iron garnet films with perpendicular anisotropy. Physical Review Materials, 2020, 4, .	2.4	19
86	Asynchronous current-induced switching of rare-earth and transition-metal sublattices in ferrimagnetic alloys. Nature Materials, 2022, 21, 640-646.	27.5	19
87	Zircaloy-2 secondary phase precipitate analysis by X-ray microspectroscopy. Talanta, 2008, 75, 402-406.	5.5	18
88	Direct observation of antiferromagnetically oriented spin vortex states in magnetic multilayer elements. Applied Physics Letters, 2011, 98, .	3.3	18
89	Topologically confined vortex oscillations in hybrid [Co/Pd] ₈ -Permalloy structures. Applied Physics Letters, 2014, 104, .	3.3	18
90	Ultra-dense planar metallic nanowire arrays with extremely large anisotropic optical and magnetic properties. Nano Research, 2018, 11, 3519-3528.	10.4	18

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91	Formation of Néel-type skyrmions in an antidot lattice with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2019, 100, .	3.2	18
92	Spin-Wave Emission from Vortex Cores under Static Magnetic Bias Fields. <i>Nano Letters</i> , 2021, 21, 1584-1590.	9.1	18
93	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
94	Aging induced changes on NEXAFS fingerprints in individual combustion particles. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11777-11791.	4.9	17
95	X-ray photoemission electron microscopy study of the in-plane spin reorientation transitions in epitaxial Fe films on W(110). <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 101-106.	2.3	17
96	Giant in-plane magnetic anisotropy in epitaxial bcc Co/Fe(110) bilayers. <i>Physical Review B</i> , 2016, 94, .	3.2	17
97	Control of the gyration dynamics of magnetic vortices by the magnetoelastic effect. <i>Physical Review B</i> , 2017, 96, .	3.2	17
98	Nanoscale X-ray imaging of spin dynamics in yttrium iron garnet. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	17
99	Imaging nanostructures in organic semiconductor films with scanning transmission X-ray spectro-microscopy. <i>Synthetic Metals</i> , 2012, 161, 2516-2520.	3.9	16
100	Sub-25nm direct write (maskless) X-ray nanolithography. <i>Microelectronic Engineering</i> , 2013, 108, 5-7.	2.4	16
101	Developing a CCD camera with high spatial resolution for RIXS in the soft X-ray range. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 731, 47-52.	1.6	16
102	Soft X-ray spectromicroscopy of phase-change microcapsules. <i>Micron</i> , 2008, 39, 275-279.	2.2	15
103	Thick permalloy films for the imaging of spin texture dynamics in perpendicularly magnetized systems. <i>Physical Review B</i> , 2018, 98, .	3.2	15
104	Silicon Fresnel zone plates for high heat load X-ray microscopy. <i>Microelectronic Engineering</i> , 2008, 85, 1241-1244.	2.4	14
105	Luminescence-based magnetic imaging with scanning x-ray transmission microscopy. <i>Applied Physics Letters</i> , 2012, 101, 083114.	3.3	14
106	Anisotropy-induced spin reorientation in chemically modulated amorphous ferrimagnetic films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	14
107	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
108	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

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109	Quantitative Imaging of the Magnetic Configuration of Modulated Nanostructures by Electron Holography. <i>Small</i> , 2014, 10, 5161-5169.	10.0	13
110	Controlling optics contamination at the PolLux STXM. <i>Journal of Instrumentation</i> , 2018, 13, C04001-C04001.	1.2	13
111	Thermodynamics and Exchange Stiffness of Asymmetrically Sandwiched Ultrathin Ferromagnetic Films with Perpendicular Anisotropy. <i>Physical Review Applied</i> , 2019, 12, .	3.8	13
112	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
113	Multifocus off-axis zone plates for x-ray free-electron laser experiments. <i>Optica</i> , 2020, 7, 1007.	9.3	13
114	Fabrication of Fresnel zone plates with 25nm zone width using extreme ultraviolet holography. <i>Microelectronic Engineering</i> , 2010, 87, 854-858.	2.4	12
115	X-ray excited optical luminescence of metal oxide single crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 189, 1-4.	1.7	12
116	Tunable geometrical frustration in magnonic vortex crystals. <i>Scientific Reports</i> , 2018, 8, 186.	3.3	12
117	Single-shot time-resolved magnetic x-ray absorption at a free-electron laser. <i>Physical Review B</i> , 2019, 99, .	3.2	12
118	Helium Ion Microscopy for Reduced Spin Orbit Torque Switching Currents. <i>Nano Letters</i> , 2020, 20, 7036-7042.	9.1	12
119	Field- and Current-Driven Magnetic Domain-Wall Inverter and Diode. <i>Physical Review Applied</i> , 2021, 15, .	3.8	12
120	Symmetry and curvature effects on spin waves in vortex-state hexagonal nanotubes. <i>Physical Review B</i> , 2021, 104, .	3.2	12
121	Planar Hall sensors for micro-Hall magnetometry. <i>Journal of Applied Physics</i> , 2002, 91, 7980.	2.5	11
122	Interaction of magnetostatic excitations with 90° domain walls in micrometer-sized permalloy squares. <i>Physical Review B</i> , 2006, 74, .	3.2	11
123	Control of vortex pair states by post-deposition interlayer exchange coupling modification. <i>Physical Review B</i> , 2012, 85, .	3.2	11
124	Programmability of Co-antidot lattices of optimized geometry. <i>Scientific Reports</i> , 2017, 7, 41157.	3.3	10
125	Dimensional crossover in spin Hall oscillators. <i>Physical Review B</i> , 2020, 102, .	3.2	10
126	Numerical Ferromagnetic Resonance Experiments in Nanosized Elements. <i>IEEE Magnetics Letters</i> , 2021, 12, 1-5.	1.1	10

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127	The role of space charge in spin-resolved photoemission experiments. <i>New Journal of Physics</i> , 2014, 16, 043031.	2.9	9
128	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
129	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
130	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
131	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
132	Electric field stimulation setup for photoemission electron microscopes. <i>Review of Scientific Instruments</i> , 2015, 86, 083702.	1.3	8
133	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
134	Sub-100ps Magnetic Imaging at the PolLux Endstation of the Swiss Light Source. <i>Microscopy and Microanalysis</i> , 2018, 24, 452-453.	0.4	8
135	Magnetic imaging with soft X-ray microscopies. <i>European Physical Journal Special Topics</i> , 2003, 104, 471-476.	0.2	8
136	Collective skyrmion motion under the influence of an additional interfacial spin-transfer torque. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
137	Advanced X-ray diffractive optics. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012078.	0.4	7
138	NanoXAS, a novel concept for high resolution microscopy. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012015.	0.4	7
139	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
140	Tunnel magnetoresistance angular and bias dependence enabling tuneable wireless communication. <i>Scientific Reports</i> , 2019, 9, 9541.	3.3	7
141	LamNI " an instrument for X-ray scanning microscopy in laminography geometry. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 730-736.	2.4	7
142	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
143	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
144	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

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145	Interlayer-coupled spin vortex pairs and their response to external magnetic fields. <i>Physical Review B</i> , 2012, 85, .	3.2	6
146	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
147	Nonstationary spin waves in a single rectangular permalloy microstrip under uniform magnetic excitation. <i>Physical Review B</i> , 2022, 105, .	3.2	6
148	Ion-Irradiation-Induced Cobalt/Cobalt Oxide Heterostructures: Printing 3D Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9858-9864.	8.0	5
149	Time-resolved imaging of Å ^r sted field induced magnetization dynamics in cylindrical magnetic nanowires. <i>Applied Physics Letters</i> , 2021, 118, 172411.	3.3	5
150	Control of Stripe-Domain-Wall Magnetization in Multilayers Featuring Perpendicular Magnetic Anisotropy. <i>Physical Review Applied</i> , 2021, 16, .	3.8	5
151	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
152	Ferromagnet-semiconductor hybrid structures: Hall devices and tunnel junctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 16, 137-146.	2.7	4
153	Magnetic domain walls in T-shaped permalloy microstructures. <i>Applied Physics Letters</i> , 2005, 86, 152503.	3.3	4
154	Imaging excitations in magnetic thin film microstructures. <i>Surface Science</i> , 2007, 601, 5246-5253.	1.9	4
155	Dynamic stabilization of nonequilibrium domain configurations in magnetic squares with high amplitude excitations. <i>Physical Review B</i> , 2013, 87, .	3.2	4
156	Penetration of spherical and rod-like gold nanoparticles into intact and barrier-disrupted human skin. , 2015, , .		4
157	Skyrmions at room temperature in magnetic multilayers. , 2015, , .		4
158	<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
159	A NeXus/HDF5 based file format for STXM. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
160	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
161	Time-resolved visualization of the magnetization canting induced by field-like spinâ€“orbit torques. <i>Applied Physics Letters</i> , 2020, 117, 212404.	3.3	4
162	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

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163	Lateral spin transfer torque induced magnetic switching at room temperature demonstrated by x-ray microscopy. Scientific Reports, 2013, 3, 2945.	3.3	3
164	Diffraction X-ray Optics for Synchrotrons and Free-Electron Lasers. Microscopy and Microanalysis, 2018, 24, 268-269.	0.4	3
165	Coupling of Lamb Waves and Spin Waves in Multiferroic Heterostructures. Journal of Microelectromechanical Systems, 2020, 29, 1121-1123.	2.5	3
166	Current-induced dynamical tilting of chiral domain walls in curved microwires. Applied Physics Letters, 2020, 116, .	3.3	3
167	High resolution 3D imaging of integrated circuits by x-ray ptychography. , 2018, , .		3
168	Investigations of clay colloid aggregates by scanning transmission X-ray microspectroscopy of suspensions. Applied Geochemistry, 2009, 24, 2015-2018.	3.0	2
169	NanoXASâ€”The in situ Combination of Scanning Transmission X-ray and Scanning Probe Microscopy. , 2011, , .		2
170	Simultaneous measurement of anisotropic magnetoresistance and observation of magnetic domains by Kerr microscopy. Review of Scientific Instruments, 2014, 85, 123701.	1.3	2
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