

# Thomas BrÄ¼ckel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7840453/publications.pdf>

Version: 2024-02-01

246  
papers

4,411  
citations

117625

34  
h-index

175258

52  
g-index

253  
all docs

253  
docs citations

253  
times ranked

4673  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic structure of $\text{EuFe}_2\text{As}_2$ by single-crystal neutron diffraction. <i>Physical Review B</i> , 2009, 80, .	2.4	152
2	Shape Induced Symmetry in Self-Assembled Mesocrystals of Iron Oxide Nanocubes. <i>Nano Letters</i> , 2011, 11, 1651-1656.	9.1	147
3	KWS-1 high-resolution small-angle neutron scattering instrument at JCNS: current state. <i>Journal of Applied Crystallography</i> , 2015, 48, 61-70.	4.5	122
4	Antiferromagnetic ordering and structural phase transition in $\text{Ba}_2\text{Sn}$ incorporated from the growth flux. <i>Physical Review B</i> , 2009, 79, .	8.2	102
5	$\text{As}_2\text{S}_3$	3.2	101
6	Quantitative spatial magnetization distribution in iron oxide nanocubes and nanospheres by polarized small-angle neutron scattering. <i>New Journal of Physics</i> , 2012, 14, 013025.	2.9	100
7	The instrument suite of the European Spallation Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 957, 163402.	1.6	90
8	First observation of superstructure reflections by neutron diffraction due to oxygen ordering in $\text{YBa}_2\text{Cu}_3\text{O}_{6.35}$ . <i>Physical Review Letters</i> , 1991, 66, 1497-1500.	7.8	88
9	Coexistence of superconductivity and ferromagnetism in P-doped $\text{EuFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2014, 89, .	8.0	80
10	Superlattice growth and rearrangement during evaporation-induced nanoparticle self-assembly. <i>Scientific Reports</i> , 2017, 7, 2802.	3.3	66
11	Reversible Control of Physical Properties via an Oxygen Vacancy-Driven Topotactic Transition in Epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1806183.	21.0	64
12	Search for Magnetic Fluctuations in $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Europhysics Letters</i> , 1987, 4, 1189-1194.	2.0	61
13	Magnetization-steps in $\text{Y}_2\text{CoMnO}_6$ double perovskite: The role of antisite disorder. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	59
14	Magnetic order in the $\text{CaFe}$		

#	ARTICLE	IF	CITATIONS
19	Magnetic moment distribution in Fe <sub>3-x</sub> Cr <sub>x</sub> Si alloys. Journal of Magnetism and Magnetic Materials, 1994, 132, 349-358.	2.3	51
20	Field-induced spin reorientation and giant spin-lattice coupling in $\text{EuFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	3.2	51
21	The high-intensity reflectometer of the Jülich Centre for Neutron Science: MARIA. Journal of Applied Crystallography, 2018, 51, 646-654.	4.5	49
22	Distinguishing $\text{A}_2\text{Fe}_2\text{As}_2$ and $\text{A}_2\text{Fe}_2\text{As}_2$ pairing symmetries by neutron spin resonance in superconducting NaFe <sub>1-x</sub> Co <sub>x</sub> As. Physical Review B, 2011, 84, 014411.	3.1	45
23	2D to 3D crossover of the magnetic properties in ordered arrays of iron oxide nanocrystals. Nanoscale, 2013, 5, 953-960.	5.6	43
24	Measurement of Anomalous Phonon Dispersion of $\text{CaFe}_2\text{As}_2$ Crystals Using Inelastic Neutron Scattering. Physical Review Letters, 2009, 102, 217001.	7.8	42
25	Study of the antiferromagnetism of Mn <sub>5</sub> Si <sub>3</sub> : an inverse magnetocaloric effect material. Journal of Materials Chemistry, 2012, 22, 15275.	6.7	41
26	The Jülich high-brilliance neutron source project. European Physical Journal Plus, 2016, 131, 1.	2.6	41
27	Coexistence of magnetic order and spin-glass-like phase in the pyrochlore antiferromagnet $\text{Na}_3\text{Co}_2(\text{CO}_3)_2\text{F}_2$ . Physical Review B, 2011, 84, 014411.	3.2	39
28	Neutron-diffraction study of the charge-density wave in $\text{U}^{1+}$ -uranium. Physical Review B, 1990, 42, 9365-9376.	3.2	38
29	Chiral criticality in helimagnet Ho studied by polarized neutron scattering. Physical Review B, 2001, 64, .	3.2	37
30	Magnetic properties of transition metal fluorides MF <sub>2</sub> (M=Mn, Fe, Co, Ni) via high-energy photon diffraction. Physical Review B, 2004, 69, .	3.2	36
31	Field-induced self-assembly of iron oxide nanoparticles investigated using small-angle neutron scattering. Nanoscale, 2016, 8, 18541-18550.	5.6	36
32	Magnetic structure of superconducting $\text{Eu}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . Physical Review B, 2011, 84, 014411.	3.2	35
33	Magnetic structure of superconducting $\text{Eu}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ in superconducting state. Physical Review B, 2011, 84, 014411.		

#	ARTICLE	IF	CITATIONS
37	Strong coupling of Sm and Fe magnetism in SmFeAsO as revealed by magnetic x-ray scattering. Physical Review B, 2011, 84, .	3.2	33
38	High-Resolution Bulk Magnetic Scattering of High-Energy Synchrotron Radiation. Europhysics Letters, 1994, 27, 537-541.	2.0	32
39	Superferromagnetic domain state of a discontinuous metal insulator multilayer. Physical Review B, 2005, 72, . Magnetic ground state of superconducting $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi}$	3.2	31

40

#	ARTICLE	IF	CITATIONS
55	Magnetic correlations in the spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$ as revealed by neutron polarization analysis. <i>Physical Review B</i> , 2010, 82, .	3.2	24
56	Magnetic lattice dynamics of the oxygen-free FeAs pnictides: how sensitive are phonons to magnetic ordering?. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 315701.	1.8	24
57	Possible magnetic-polaron-switched positive and negative magnetoresistance in the GdSi single crystals. <i>Scientific Reports</i> , 2012, 2, 750.	3.3	24
58	Approaching the true ground state of frustrated $\text{A}$ -site spinels: A combined magnetization and polarized neutron scattering study. <i>Physical Review B</i> , 2014, 89, .	3.2	24
59	Structure, Magnetism, and the Magnetocaloric Effect of $\text{MnFe}_4\text{Si}_3$ Single Crystals and Powder Samples. <i>Chemistry of Materials</i> , 2015, 27, 7128-7136.	6.7	24
60	Phonon dynamics in $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ and $\text{Ca}_{0.6}\text{Na}_{0.4}\text{Fe}_2\text{As}_2$ from neutron scattering and lattice-dynamical calculations. <i>Physical Review B</i> , 2008, 78, .	3.2	23
61	Hyperfine and crystal field interactions in multiferroic $\text{HoCrO}_3$ . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 476001.	1.8	23
62	Spin correlation in the frustrated antiferromagnet $\text{MnS}_2$ above the Néel temperature. <i>Physical Review B</i> , 1991, 44, 7394-7402.	3.2	22
63	Antiferromagnetic order and phase transitions in GdS as studied with X-ray resonance-exchange scattering. <i>European Physical Journal B</i> , 2001, 19, 475-490.	1.5	22
64	KWS-3, the new focusing-mirror ultra small-angle neutron scattering instrument and reflectometer at Jülich. <i>Physica B: Condensed Matter</i> , 2004, 350, E779-E781.	2.7	22
65	Symmetry and asymmetry during magnetization reversal in exchange biased multilayers and bilayers. <i>Physical Review B</i> , 2006, 73, .	3.2	22
66	Determination of the magnetic fluctuations in an Fe/Cr/Fe trilayer exhibiting a neutron resonance state. <i>Physica B: Condensed Matter</i> , 2003, 335, 89-94.	2.7	21
67	Neutron diffraction investigation of the crystal and magnetic structures in $\text{KCrF}_3$ . <i>Physical Review B</i> , 2010, 82, .	3.2	21
68	Effect of magnetic fullerene on magnetization reversal created at the Fe/C <sub>60</sub> interface. <i>Scientific Reports</i> , 2018, 8, 5515.	3.3	21
69	Studies on the adsorption and desorption of mitoxantrone to lauric acid/albumin coated iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 18-26.	5.0	21
70	Biquadratic exchange and critical behaviour in the diluted antiferromagnet $\text{EuSr}_{1-x}\text{Te}$ . <i>Zeitschrift für Physik B-Condensed Matter</i> , 1993, 92, 475-487.	1.1	20
71	X-ray space technology for focusing small-angle neutron scattering and neutron reflectometry. <i>Physica B: Condensed Matter</i> , 2000, 283, 330-332.	2.7	20
72	Magnetization reversal with variation of the ratio of the anisotropy energies in exchange bias systems. <i>Physical Review B</i> , 2006, 74, .	3.2	20

#	ARTICLE	IF	CITATIONS
73	Effects of magnetic doping and temperature dependence of phonon dynamics in $\text{CaFe}_{1-x}\text{Co}_x\text{AsF}$ compounds ( $x=0, 0.06, \text{ and } 0.12$ ). <i>Physical Review B</i> , 2009, 79, .	3.2	20
74	Neutron diffraction study of phase transitions and thermal expansion of $\text{SrFeAsF}$ . <i>Physical Review B</i> , 2010, 81, .	3.2	20
75	Stability of spin-driven ferroelectricity in the thin-film limit: Coupling of magnetic and electric order in multiferroic $\text{TbMnO}_3$ films. <i>Physical Review B</i> , 2013, 88, .	3.2	20
76	Incommensurate antiferromagnetic order in the manifoldly-frustrated $\text{SrTb}_2\text{O}_4$ with transition temperature up to 4.28 K. <i>Frontiers in Physics</i> , 2014, 2, .	2.1	20
77	Magnetic structures and magnetoelastic coupling of Fe-doped hexagonal manganites $\text{LuMn}_2\text{O}_7$ and $\text{LuMn}_2\text{O}_6$ . <i>Physical Review B</i> , 2010, 81, .	3.2	20
78	Dynamical interaction of antiferromagnetic subsystems: a neutron scattering study of the spinwave spectrum of the garnet $\text{Fe}_2\text{Ca}_3(\text{GeO}_4)_3$ . <i>European Physical Journal B</i> , 1988, 72, 477-485.	1.5	19
79	Single-particle blocking and collective magnetic states in discontinuous $\text{CoFe/Al}_2\text{O}_3$ multilayers. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 474002.	2.8	19
80	The new polarized neutron reflectometer in Jülich. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 95-97.	2.7	18
81	Roughness-induced enhancement of giant magnetoresistance in epitaxial $\text{Fe/Cr/Fe}(001)$ trilayers. <i>Europhysics Letters</i> , 2002, 59, 458-464.	2.0	18
82	Longitudinal spin fluctuations in the antiferromagnet $\text{MnF}_2$ studied by polarized neutron scattering. <i>Europhysics Letters</i> , 2002, 60, 446-452.	2.0	18
83	Magnetic and structural transitions in $\text{La}_{0.4}\text{Mn}_{0.6}\text{O}_2$ crystals. <i>Physical Review B</i> , 2015, 91, .	2.8	18
84	Modulated magnetization depth profile in dipolarly coupled magnetic multilayers. <i>Physical Review B</i> , 2006, 74, .	3.2	17
85	Phonon spectra in $\text{CaFe}_2\text{As}_2$ and $\text{Ca}_{0.6}\text{Na}_{0.4}\text{Fe}_2\text{As}_2$ : Measurement of the pressure and temperature dependence and comparison with ab initio and shell model calculations. <i>Physical Review B</i> , 2009, 79, .	3.2	17
86	Spin-phonon coupling in $\text{KFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	17
87	Spin dynamics in $\text{Ho}_2\text{Ru}_2\text{O}_7$ . <i>Journal of Physics Condensed Matter</i> , 2005, 17, 7089-7095.	1.8	16
88	Anomalous in-plane magnetoresistance in a $\text{EuFe}_2\text{As}_2$ single crystal: Evidence of strong spin-charge-lattice coupling. <i>Physical Review B</i> , 2012, 85, .	3.2	16
89	Self assembled monolayer of silica nanoparticles with improved order by drop casting. <i>RSC Advances</i> , 2020, 10, 18339-18347.	3.6	16
90	Evidence for the exchange origin of the magnon gap in the garnet $\text{Ca}_3\text{Fe}_2\text{Ge}_3\text{O}_{12}$ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 162, 357-358.	2.1	15

#	ARTICLE	IF	CITATIONS
91	The Non-Resonant Magnetic X-ray Scattering Cross Section of MnF <sub>2</sub> . 1. Medium X-ray Energies from 5 to 12keV. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, 427-437.	0.3	15
92	The non-resonant magnetic X-ray scattering cross-section for photon energies up to 500 keV. Europhysics Letters, 1997, 40, 569-574.	2.0	15
93	Polarization analysis for the 2D position-sensitive detector of the HADAS reflectometer in Jülich. Physica B: Condensed Matter, 2001, 297, 140-142.	2.7	15
94	Correlation between structural and magnetic properties of La <sub>7/8</sub> Sr <sub>1/8</sub> Mn <sup>1-x</sup> O <sub>3</sub> + $\delta$ with controlled nonstoichiometry. Journal of Physics Condensed Matter, 2007, 19, 016003.	1.8	15
95	Uniaxial and hydrostatic pressure effects in $\pm$ -RuCl <sub>3</sub> single crystals via thermal-expansion measurements. Journal of Physics Condensed Matter, 2018, 30, 385702.	1.8	15
96	Investigations of the sublattice magnetizations M (T) in antiferromagnets with fourth-order exchange interactions: Eu Sr Te. European Physical Journal B, 1999, 8, 217-224.	1.5	14
97	Fourth-order exchange interactions in GdxEu <sup>x</sup> S. Journal of Magnetism and Magnetic Materials, 1999, 205, 90-104.	2.3	14
98	Form-factor measurements on chromium with high-energy synchrotron radiation. European Physical Journal B, 2000, 14, 63-72.	1.5	14
99	Neutron-diffraction study of structural transition and magnetic order in orthorhombic and rhombohedral La <sub>7/8</sub> Sr <sub>1/8</sub> Mn <sup>1-x</sup> O <sub>3</sub> + $\delta$ . Journal of Physics Condensed Matter, 2007, 19, 176226.	1.8	14
100	Pressure dependence of phonon modes across the tetragonal to collapsed-tetragonal phase transition in $\text{CaFe}_2\text{Mn}_2\text{O}_7$ . Physical Review B, 2010, 81, .	3.2	14
101	Effect of substitution of Y on the structural, magnetic, and thermal properties of hexagonal DyMnO <sub>2</sub> . Physical Review B, 2011, 83, .	3.2	14
102	Toward a better understanding of the magnetocaloric effect: An experimental and theoretical study of MnFe <sub>4</sub> Si <sub>3</sub> . Journal of Solid State Chemistry, 2014, 216, 56-64.	2.9	14
103	Spin dynamics of the magnetocaloric compound $\text{MnFe}_4\text{Mn}_2\text{O}_7$ . Physical Review B, 2017, 96, .	3.2	14
104	Strain and electric-field control of magnetism in supercrystalline iron oxide nanoparticle/BaTiO <sub>3</sub> composites. Nanoscale, 2017, 9, 12957-12962.	5.6	14
105	Magnetic excitations in the ground state of Yb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . Physical Review B, 2017, 96, .	3.2	14
106	Magnetic frustration in the mixed garnets (FexCr <sub>1-x</sub> ) <sub>2</sub> Ca <sub>3</sub> (GeO <sub>4</sub> ) <sub>3</sub> : the phase diagram and relaxation of the antiferromagnetic long-range order. Journal of Physics C: Solid State Physics, 1987, 20, 2565-2583.	1.5	13
107	Amplitude, wavevector and frequency dependence of magnetic fluctuations in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+<math>\delta</math></sub> . European Physical Journal B, 1990, 78, 345-359.	1.5	13
108	Optimization of a neutron image plate detector with low $\delta$ -sensitivity. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 539, 236-249.	1.6	13

#	ARTICLE	IF	CITATIONS
109	Chopper layout for spectrometers at long pulse neutron sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 741, 26-32.	1.6	13
110	Magnetization, crystal structure and anisotropic thermal expansion of single-crystal SrEr <sub>2</sub> O <sub>4</sub> . RSC Advances, 2014, 4, 53602-53607.	3.6	13
111	The Jülich high brilliance neutron source project – Improving access to neutrons. Physica B: Condensed Matter, 2019, 570, 345-348.	2.7	13
112	Layer-by-layer magnetometry of polarizing supermirrors. Applied Physics A: Materials Science and Processing, 2002, 74, s607-s609.	2.3	12
113	POWTEX – the high-intensity time-of-flight diffractometer at FRM II for structure analysis of polycrystalline materials. Journal of Applied Crystallography, 2008, 41, 836-845.	4.5	12
114	An approach to the magnetic ground state of the molecular magnet {Mo <sub>72</sub> Fe <sub>30</sub> }. New Journal of Physics, 2010, 12, 083044.	2.9	12
115	Magnetic structures of the Eu and Cr moments in $\text{EuCr}_2\text{As}_2$ . Neutron diffraction study. Physical Review B, 2016, 94, .	3.2	12
116	Simultaneous observation of anti-damping and the inverse spin Hall effect in the La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /Pt bilayer system. Nanoscale, 2021, 13, 2714-2719.	5.6	12
117	Polarized neutron scattering studies of chiral criticality, and new universality classes of phase transitions. Physica B: Condensed Matter, 2006, 385-386, 288-294.	2.7	11
118	Probing lateral magnetic nanostructures by polarized GISANS. Physica B: Condensed Matter, 2007, 397, 43-46.	2.7	11
119	Pressure dependence of the low-temperature crystal structure and phase transition behavior of CaFeAsF and SrFeAsF: A synchrotron x-ray diffraction study. Physical Review B, 2011, 84, .	3.2	11
120	Low-lying magnetic excitations and magnetocaloric effect of molecular magnet K <sub>6</sub> [V <sub>15</sub> As <sub>6</sub> O <sub>42</sub> (H <sub>2</sub> Tj)ETQq <sub>0,0,0</sub> rgBT/Qverlock 1	2.0	11
121	Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications. Advanced Materials, 2021, 33, e2008683.	21.0	11
122	Complex magnetic structure and spin waves of the noncollinear antiferromagnet $\text{Mn}_5\text{Te}_8$ . Physical Review B, 2022, 105, .	2.0	11
123	Incommensurate-commensurate lock-in phase transition in EuAs <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1058-1060.	2.3	10
124	Magnetic properties of laterally structured Fe/Cr multilayers. Physica B: Condensed Matter, 2003, 335, 50-53.	2.7	10
125	Field-dependent magnetic domain structure in antiferromagnetically coupled multilayers by polarized neutron scattering. Physical Review B, 2006, 73, .	3.2	10
126	Beam transport and polarization at TOPAS, the thermal time-of-flight spectrometer with polarization analysis. Journal of Physics: Conference Series, 2010, 211, 012032.	0.4	10



#	ARTICLE	IF	CITATIONS
127	High quality TbMnO <sub>3</sub> films deposited on YAlO <sub>3</sub> . Journal of Alloys and Compounds, 2011, 509, 5061-5063.	5.5	10
128	Analysis of randomly oriented structures by grazing-incidence small-angle neutron scattering. Journal of Applied Crystallography, 2012, 45, 245-254.	4.5	10
129	Energy and target material dependence of the neutron yield induced by proton and deuteron bombardment. EPJ Web of Conferences, 2020, 231, 03006.	0.3	10
130	Elementary excitations in antiferromagnets with degenerate ground state: magnon energies and neutron scattering cross sections for the garnet Fe <sub>2</sub> Ca <sub>3</sub> (GeO <sub>4</sub> ) <sub>3</sub> . European Physical Journal B, 1988, 73, 57-65.	1.5	9
131	First observation of bulk magnetic scattering using high-energy X-rays. Acta Crystallographica Section A: Foundations and Advances, 1993, 49, 679-682.	0.3	9
132	Spin chirality and polarised neutron scattering. Physica B: Condensed Matter, 2001, 297, 60-66.	2.7	9
133	Magnetic phase transition in confined MnO nanoparticles studied by polarized neutron scattering. Physical Review B, 2010, 81, .	3.2	9
134	Inelastic neutron scattering study of crystal field excitations of Nd <sup>3+</sup> in NdFeAsO. Physical Review B, 2013, 88, .	3.2	9
135	Spin excitations in cubic maghemite nanoparticles studied by time-of-flight neutron spectroscopy. Physical Review B, 2014, 89, .	3.2	9
136	A method to compute the covariance matrix of wavevector-energy transfer for neutron time-of-flight spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 736, 31-39.	1.6	9
137	High brilliant thermal and cold moderator for the HBS neutron source project Jülich. Journal of Physics: Conference Series, 2016, 746, 012036.	0.4	9
138	Spectrometers for compact neutron sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 884, 59-63.	1.6	9
139	Strong size selectivity in the self-assembly of rounded nanocubes into 3D mesocrystals. Nanoscale Horizons, 2020, 5, 1065-1072.	8.0	9
140	Signature of antiphase boundaries in iron oxide nanoparticles. Journal of Applied Crystallography, 2021, 54, 1719-1729.	4.5	9
141	Spin wave spectrum and exchange interactions in the antiferromagnetic garnet Ca <sub>3</sub> Cr <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> by inelastic neutron scattering. European Physical Journal B, 1990, 79, 389-395.	1.5	8
142	Spin waves and exchange interactions in the antiferromagnetic garnets with Fe <sup>3+</sup> in the octahedral sites. European Physical Journal B, 1993, 92, 443-449.	1.5	8
143	Energy-dependent polarization study of the x-ray magnetic scattering in terbium metal. Journal of Physics Condensed Matter, 1998, 10, 1951-1964.	1.8	8
144	Structural and magnetic characterization of Fe <sup>2+</sup> -Mn thin films. Physica B: Condensed Matter, 2000, 276-278, 586-587.	2.7	8

#	ARTICLE	IF	CITATIONS
145	Element-specific magnetic order and competing interactions in Gd <sub>0.8</sub> Eu <sub>0.2</sub> S. Europhysics Letters, 2000, 49, 92-98.	2.0	8
146	High-energy non-resonant X-ray magnetic scattering from EuAs <sub>3</sub> . Solid State Communications, 2004, 131, 713-717.	1.9	8
147	Novel materials and concepts for neutron image plates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 551, 46-51.	1.6	8
148	Magnetization distribution in the tetragonal phase of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2010, 82, .	3.2	8
149	Polarization analysis for the thermal chopper spectrometer TOPAS. EPJ Web of Conferences, 2015, 83, 03016.	0.3	8
150	Spin-wave and electromagnon dispersions in multiferroic MnWO <sub>4</sub> as observed by neutron spectroscopy: Isotropic Heisenberg exchange versus anisotropic Dzyaloshinskii-Moriya interaction. Physical Review B, 2016, 93, .	3.2	8
151	Magnetic properties and spin structure of MnO single crystal and powder. Journal of Physics: Conference Series, 2017, 862, 012027.	0.4	8
152	Direct measurements of the magneto-caloric effect of MnFe <sub>4</sub> Si <sub>3</sub> in pulsed magnetic fields. Journal of Alloys and Compounds, 2019, 805, 1161-1167.	5.5	8
153	Sustainable neutrons for today and tomorrow – The Jülich High Brilliance neutron Source project. Neutron News, 2020, 31, 37-43.	0.2	8
154	Space technology from X-ray telescopes for focusing SANS and reflectometry. Physica B: Condensed Matter, 2000, 276-278, 52-54.	2.7	7
155	X-ray resonance exchange scattering from ferromagnets: A new approach and its application to EuS. Europhysics Letters, 2002, 59, 284-290.	2.0	7
156	Development of neutron image plate for low-flux measurements. Applied Physics A: Materials Science and Processing, 2002, 74, s118-s120.	2.3	7
157	Physical properties, crystal and magnetic structure of layered Fe <sub>1.11</sub> Te <sub>1-x</sub> Se <sub>x</sub> superconductors. European Physical Journal B, 2011, 82, 113-121.	1.5	7
158	Magnetic correlations in HoxTb <sub>2-x</sub> Ti <sub>2</sub> O <sub>7</sub> . Physical Review B, 2011, 83, .	3.2	7
159	A versatile UHV transport and measurement chamber for neutron reflectometry under UHV conditions. Review of Scientific Instruments, 2016, 87, 123909.	1.3	7
160	Magnetic polarization of Ir in underdoped nonsuperconducting Eu(Fe <sub>0.94</sub> Ir <sub>0.06</sub> ) <sub>2</sub> As <sub>2</sub> . Physical Review B, 2016, 93, .	3.2	7
161	Tailoring superconducting states in superconductor-ferromagnet hybrids. New Journal of Physics, 2020, 22, 093001.	2.9	7
162	Progress towards producing a monodomain in the charge-density-wave state of alpha-uranium. Solid State Communications, 1993, 87, 837-841.	1.9	6

#	ARTICLE	IF	CITATIONS
163	A reinvestigation of the field-induced magnetic form factor of chromium. Physica B: Condensed Matter, 1999, 267-268, 56-59.	2.7	6
164	Proximity effects in Fe <sub>1-x</sub> Cox/Mn/Fe <sub>1-x</sub> Cox trilayers. Physica B: Condensed Matter, 2001, 297, 185-188.	2.7	6
165	Materials for neutron-image plates with low $\gamma$ -sensitivity. Applied Physics A: Materials Science and Processing, 2002, 74, s109-s111.	2.3	6
166	The angular dependence of the magnetization reversal in exchange biased multilayers. Journal of Physics Condensed Matter, 2006, 18, L149-L153.	1.8	6
167	Magnetic anisotropic energy gap and low energy spin wave excitation in the antiferromagnetic block phase of $K_2Mn_2Fe_4Se_7$ . Journal of Physics Condensed Matter, 2019, 31, 045701.	3.2	6
168	Magnetolectric coupling in iron oxide nanoparticle $\epsilon$ barium titanate composites. Journal Physics D: Applied Physics, 2019, 52, 065301.	2.8	6
169	Cryostat for the provision of liquid hydrogen with a variable ortho-para ratio for a low-dimensional cold neutron moderator. EPJ Web of Conferences, 2020, 231, 04001.	0.3	6
170	Spin waves in the collinear antiferromagnetic phase of $Mn_2V_2O_8$ . Physical Review B, 2021, 103, .	2.5	6
171	Monte Carlo simulation of proton- and neutron-induced radiation damage in a tantalum target irradiated by 70 MeV protons. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	6
172	Ordering due to disorder in an antiferromagnet with continuously degenerate Ni <sub>2</sub> Ge ground state: A combined neutron diffraction and magnetization study of (FexGa1-x) <sub>2</sub> Ca <sub>3</sub> Ge <sub>3</sub> O <sub>12</sub> . European Physical Journal B, 1995, 97, 391-401.	1.5	5
173	Direct observation of the interlayer exchange coupling mechanism in a magnetic [Er Tb] multilayer. Europhysics Letters, 2004, 65, 560-566.	2.0	5
174	Magnetism of monomer MnO and heterodimer FePt@MnO nanoparticles. Physical Review B, 2017, 95, .	3.2	5
175	Determination of the neutron yield of Be, V and Ta targets irradiated with protons (22-42 MeV) by means of prompt gamma neutron activation analysis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 990, 164989.	1.6	5
176	Magnetic fluctuations in non-superconducting, tetragonal YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+<math>\delta</math></sub> . Solid State Communications, 1989, 70, 53-56.	1.9	4
177	X-ray and neutron investigation of the structure and disorder in dicalcium barium acrylate. Acta Crystallographica Section B: Structural Science, 1994, 50, 448-455.	1.8	4
178	Magnetization reversal in trained exchange biased multilayers. Journal of Physics Condensed Matter, 2007, 19, 086229.	1.8	4
179	Magnetization reversal via symmetric rotation of layers in exchange biased multilayers. Journal of Applied Physics, 2007, 101, 123913.	2.5	4
180	Resonant magnetic x-ray scattering from terbium. Journal of Physics Condensed Matter, 2008, 20, 445208.	1.8	4

#	ARTICLE	IF	CITATIONS
181	Magnetic correlations in pyrochlore spin ice as probed by polarized neutron scattering. Journal of Physics: Conference Series, 2010, 211, 012013.	0.4	4
182	EuFe <sub>2</sub> As <sub>2</sub> : Magnetic Structure and Local Charge Distribution Anisotropies as Seen by Resonant X-ray Scattering. Journal of Superconductivity and Novel Magnetism, 2011, 24, 705-709.	1.8	4
183	Direct observation of low energy nuclear spin excitations in HoCrO <sub>3</sub> by high resolution neutron spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 286003.	1.8	4
184	Control of the stripe domain pattern in L1 <sub>0</sub> -ordered FePd thin films. Journal of Magnetism and Magnetic Materials, 2019, 476, 483-486.	2.3	4
185	Proton Beam Multiplexer Developments for Multi-Target Operation at the High-Brilliance Neutron Source HBS. EPJ Web of Conferences, 2020, 231, 02002.	0.3	4
186	Performance of neutron guide systems for low energy accelerator-driven neutron facilities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1009, 165479.	1.6	4
187	Tuning the Co/Sr stoichiometry of SrCoO <sub>2.5</sub> thin films by RHEED assisted MBE growth. Materials Research Express, 2020, 7, 116404.	1.6	4
188	Magnetic diffuse scattering from the frustrated antiferromagnet MnS <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1759-1760.	2.3	3
189	A <sup>4</sup> He Cryostat for Synchrotron Single-Crystal Diffraction Experiments in the Temperature Range 1.6 to 300 K. Journal of Applied Crystallography, 1996, 29, 686-691.	4.5	3
190	LAP-ND: a new instrument for vector polarization analysis and neutron depolarization measurements at FRJ-2. Physica B: Condensed Matter, 2004, 350, E815-E818.	2.7	3
191	Progress of <sup>3</sup> He spin-exchange for neutron polarization in Jülich. Physica B: Condensed Matter, 2004, 350, E707-E710.	2.7	3
192	Polarized neutron reflectivity studies on granular Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers. Physica B: Condensed Matter, 2007, 397, 65-67.	2.7	3
193	Polarized neutron reflectivity of dilute magnetic semiconductors. Physica B: Condensed Matter, 2007, 397, 59-61.	2.7	3
194	Contrast variation by anomalous X-ray scattering applied to investigation of the interface morphology in a giant magnetoresistance Fe/Cr/Fe trilayer. Journal of Applied Crystallography, 2007, 40, 532-538.	4.5	3
195	Neutron polarization analysis on the multiferroic TbMn <sub>2</sub> O <sub>5</sub> . Physica B: Condensed Matter, 2009, 404, 2517-2519.	2.7	3
196	Anomalous phonons in CaFe <sub>2</sub> As <sub>2</sub> explored by inelastic neutron scattering. Journal of Physics: Conference Series, 2010, 251, 012008.	0.4	3
197	Soft X-ray resonant scattering study of single-crystal LaSr <sub>2</sub> Mn <sub>2</sub> O <sub>7</sub> . European Physical Journal B, 2010, 74, 457-461.	1.5	3
198	Evidence of Spin Resonance Signal in Oxygen Free Superconducting CaFe <sub>0.88</sub> Co <sub>0.12</sub> AsF: An Inelastic Neutron Scattering Study. Journal of the Physical Society of Japan, 2013, 82, 104716.	1.6	3

#	ARTICLE	IF	CITATIONS
199	Towards Compact Accelerator Driven Neutronsources for Europe. Neutron News, 2017, 28, 20-25.	0.2	3
200	Macroscopic nanoparticle assemblies: exploring the structural and magnetic properties of large supercrystals. Materials Today: Proceedings, 2017, 4, S146-S153.	1.8	3
201	Tailoring neutron beam properties by target-moderator-reflector optimisation. Journal of Neutron Research, 2021, 23, 185-200.	1.1	3
202	Dynamical sublattice interaction in the antiferromagnetic garnet $\text{Fe}_2\text{Ca}_3(\text{GeO}_4)_3$ as studied by neutron scattering. Physica B: Condensed Matter, 1989, 156-157, 308-310.	2.7	2
203	Percolation like behaviour in amorphous spin glasses $\text{Mn}_x\text{Ca}_{3-x}\text{Al}_2(\text{SiO}_4)_3$ . Physica B: Condensed Matter, 1992, 180-181, 61-64.	2.7	2
204	Spin correlations in $\text{MnS}_2$ . Physica B: Condensed Matter, 1992, 180-181, 71-72.	2.7	2
205	Monochromator design for the HADAS reflectometer in Jülich. Physica B: Condensed Matter, 2000, 283, 422-425.	2.7	2
206	Progress in the production of polarized $^3\text{He}$ in Jülich. Physica B: Condensed Matter, 2003, 335, 278-281.	2.7	2
207	Re-examination of charge and orbital ordering in lightly doped $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ by X-ray scattering. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E291-E292.	2.3	2
208	Neutron quantum well states in Fe/Co/Fe trilayers. Physica B: Condensed Matter, 2004, 350, E233-E235.	2.7	2
209	Structural and magnetic properties of $\text{Er/Tb}$ multilayers. European Physical Journal B, 2006, 49, 441-451.	1.5	2
210	The temperature evolution of the magnetic correlations in pure and diluted spin ice $\text{Ho}_2\text{YTi}_2\text{O}_7$ . Physica B: Condensed Matter, 2011, 406, 2393-2396.	2.7	2
211	Compact and easy to use mesitylene cold neutron moderator for CANS. Physica B: Condensed Matter, 2018, 551, 377-380.	2.7	2
212	Parametric study and design improvements for the target of NOVA-ÅERA. Journal of Neutron Research, 2018, 20, 47-54.	1.1	2
213	Developments of a multiplexer system for the High-Brilliance Neutron Source HBS. Journal of Neutron Research, 2021, 23, 143-156.	1.1	2
214	Unexpected precipitates in conjunction with layer-by-layer growth in Mn-enriched $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ thin films. Thin Solid Films, 2021, 735, 138862.	1.8	2
215	The Spin Glass State in Garnet Mixed Crystals: New Evidence from Neutron Scattering and Macroscopic Measurements. , 1988, , 208-216.		2
216	MAGNETIC MOMENT AND HYPERFINE FIELD DISTRIBUTION IN $\text{Fe}_{3-x}\text{Cr}_x\text{Si}$ ALLOYS. International Journal of Modern Physics B, 1993, 07, 911-914.	2.0	1

#	ARTICLE	IF	CITATIONS
217	Magnetic structure and phase transitions of $\text{Co}_1\text{-Mn Cl}_2 \cdot 2\text{H}_2\text{O}$ and $\text{Co}_1\text{-Mn Cl}_2 \cdot 2\text{D}_2\text{O}$ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1797-1798.	2.3	1
218	A new thermal neutron spectrometer/diffractometer for polarization analysis (SV30) at the research reactor FRJ-2. Applied Physics A: Materials Science and Processing, 2002, 74, s107-s108.	2.3	1
219	Neutron depolarization study on the magnetic correlation length of nickel ferrite with different packing densities. Physica B: Condensed Matter, 2009, 404, 2565-2567.	2.7	1
220	Interlayer exchange coupling in Er   Tb superlattices mediated by short range incommensurate Er order. Journal of Physics: Conference Series, 2010, 211, 012019.	0.4	1
221	Magnetization flop in Fe/Cr GMR multilayers. Journal of Physics: Conference Series, 2010, 211, 012023.	0.4	1
222	Magnetization distribution and orbital moment in the nonsuperconducting chalcogenide compound $\text{K}_0.8\text{Fe}_{1.6}\text{Se}_2$ . Physical Review B, 2013, 88, .	3.2	1
223	Frozen O <sub>2</sub> layer revealed by neutron reflectometry. Results in Physics, 2016, 6, 263-264.	4.1	1
224	Quasielastic and low-energy inelastic neutron scattering study of $\text{HoCrO}_3$ by high resolution time-of-flight neutron spectroscopy. Journal of Physics Condensed Matter, 2017, 29, 475802.	1.8	1
225	High energy synchrotron radiation. A new probe for condensed matter research. European Physical Journal Special Topics, 1994, 04, C9-415-C9-421.	0.2	1
226	Bulk domain Meissner state in the ferromagnetic superconductor $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{EuFe} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ : Consequence of com. Physical Review B, 2022, 105, .	3.2	1
227	Nanoparticle-induced morphological transformation in block copolymer-based nanocomposites. Nanoscale, 2022, 14, 8766-8775.	5.6	1
228	New developments in modulated phases of $\hat{1}\pm\text{U}$ . Phase Transitions, 1991, 31, 145-155.	1.3	0
229	A thermal flat cone diffractometer for polarization analysis. Physica B: Condensed Matter, 1992, 180-181, 1011-1013.	2.7	0
230	Neutron scattering investigation of the magnetic structure and phase transitions in CoNiTAC mixed crystals. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1629-1631.	2.3	0
231	The non-resonant magnetic X-ray scattering cross section of $\text{MnF}_2$ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1743-1744.	2.3	0
232	Structural and magnetic properties of [Er   Tb] superlattices. Journal of Magnetism and Magnetic Materials, 2002, 240, 559-561.	2.3	0
233	Interlayer coupling in [Er   Tb] superlattices. Applied Physics A: Materials Science and Processing, 2002, 74, s1517-s1519.	2.3	0
234	Wolfram Prandl (1935â€“2001). Journal of Applied Crystallography, 2002, 35, 143-143.	4.5	0

#	ARTICLE	IF	CITATIONS
235	Element-specific magnetic long- and short-range order and competing interactions in Gd x Eu 1 - x S. European Physical Journal B, 2002, 26, 273-289.	1.5	0
236	Polarized neutron methods and instrumentation for pulsed sources. Physica B: Condensed Matter, 2003, 335, 143-146.	2.7	0
237	Novel type of neutron image plates based on KCl:Eu2+â€“LiF. Physica B: Condensed Matter, 2004, 350, E861-E864.	2.7	0
238	A new thermal triple-axis spectrometer at the research reactor FRJ-2. Journal of Neutron Research, 2008, 16, 31-38.	1.1	0
239	Preparation and analysis of epitaxial Fe monolayers buried in Pd. Journal of Physics: Conference Series, 2010, 211, 012021.	0.4	0
240	Polarized Neutrons and Synchrotron X-rays for Magnetism Conference 2009. Journal of Physics: Conference Series, 2010, 211, 011001.	0.4	0
241	High-Pressure Structural Phase Transitions in FeAs Based Compounds at Ambient and Low Temperatures. , 2011, , .		0
242	Pressure-driven Phase Transition in CaFeAsF at 40 and 300 K. Journal of Physics: Conference Series, 2012, 377, 012034.	0.4	0
243	Workhorse Scattering Instruments for Low Power Compact Accelerator Driven Neutron Sources. , 2018, , .		0
244	Total interference between nuclear and magnetovibrational one-phonon scattering cross sections. Journal of Physics: Conference Series, 2019, 1316, 012018.	0.4	0
245	New Polarized Neutron Diffraction Setup for Precise High-Field Investigations of Magnetic Structures up to 8 T at MLZ. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0
246	The non-resonant magnetic X-ray scattering cross-section for photon energies up to 500 keV. Europhysics Letters, 1998, 41, 473-474.	2.0	0