

Boris P Toperverg

List of Publications by Citations

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

113
papers

1,786
citations

23
h-index

36
g-index

117
ext. papers

1,860
ext. citations

3
avg, IF

4.33
L-index

#	Paper	IF	Citations
113	Glassy phenomena in disordered perovskite-like crystals. <i>Ferroelectrics</i> , 1989 , 90, 173-176	0.6	120
112	Magnetic proximity effect in YBa ₂ Cu ₃ O ₇ /La(2/3)Ca(1/3)MnO ₃ and YBa ₂ Cu ₃ O ₇ /LaMnO(3+ δ) superlattices. <i>Physical Review Letters</i> , 2012 , 108, 197201	7.4	81
111	Transverse and lateral structure of the spin-flop phase in fe/cr antiferromagnetic superlattices. <i>Physical Review Letters</i> , 2002 , 89, 167203	7.4	71
110	Supermatrix approach to polarized neutron reflectivity from arbitrary spin structures. <i>Physical Review B</i> , 1999 , 60, 16073-16077	3.3	64
109	Fractal nature of chromatin organization in interphase chicken erythrocyte nuclei: DNA structure exhibits biphasic fractal properties. <i>FEBS Letters</i> , 2005 , 579, 1465-8	3.8	63
108	Nanoparticles in Block-Copolymer Films Studied by Specular and Off-Specular Neutron Scattering \square <i>Langmuir</i> , 2003 , 19, 7783-7788	4	59
107	Magnetization reversal and exchange bias effects in hard/soft ferromagnetic bilayers with orthogonal anisotropies. <i>New Journal of Physics</i> , 2012 , 14, 113001	2.9	58
106	Specular reflection and off-specular scattering of polarized neutrons. <i>Physica B: Condensed Matter</i> , 2001 , 297, 160-168	2.8	48
105	Exchange-bias instability in a bilayer with an ion-beam imprinted stripe pattern of ferromagnetic/antiferromagnetic interfaces. <i>Physical Review B</i> , 2006 , 73,	3.3	47
104	Revealing the mechanism of passive transport in lipid bilayers via phonon-mediated nanometre-scale density fluctuations. <i>Nature Communications</i> , 2016 , 7, 11575	17.4	47
103	Antiferromagnetic dipolar ordering in [Co ₂ MnGeV]N multilayers. <i>Physical Review B</i> , 2005 , 72,	3.3	43
102	SuperADAM: upgraded polarized neutron reflectometer at the Institut Laue-Langevin. <i>Review of Scientific Instruments</i> , 2013 , 84, 025112	1.7	34
101	In-plane correlations in a polymer-supported lipid membrane measured by off-specular neutron scattering. <i>Physical Review Letters</i> , 2011 , 106, 138101	7.4	34
100	Polarized neutron reflectometry of magnetic nanostructures. <i>Physics of Metals and Metallography</i> , 2015 , 116, 1337-1375	1.2	31
99	Self-assembled iron oxide nanoparticle multilayer: x-ray and polarized neutron reflectivity. <i>Nanotechnology</i> , 2012 , 23, 055707	3.4	31
98	Depth-resolved investigation of the lateral magnetic correlations in a gradient nanocrystalline multilayer. <i>Physical Review B</i> , 2008 , 77,	3.3	29
97	Correlated magnetic reversal in periodic stripe patterns. <i>Physical Review B</i> , 2005 , 71,	3.3	28

96	Self assembly of magnetic nanoparticles at silicon surfaces. <i>Soft Matter</i> , 2015 , 11, 4695-704	3.6	26
95	Towards 3D polarization analysis in neutron reflectometry. <i>Physica B: Condensed Matter</i> , 2001 , 297, 169-174	2.8	26
94	Off-specular polarized neutron scattering from magnetic fluctuations in thin films and multilayers. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1560-s1562	2.6	25
93	Polarized neutron grazing angle birefringent diffraction from magnetic stratified media. <i>Physica B: Condensed Matter</i> , 1999 , 267-268, 198-202	2.8	25
92	Depth profile of the ferromagnetic order in a YBa ₂ Cu ₃ O ₇ /La ₂ /3Ca ₁ /3MnO ₃ superlattice on a LSAT substrate: A polarized neutron reflectometry study. <i>Physical Review B</i> , 2013 , 87,	3.3	24
91	Magnetic neutron off-specular scattering for the direct determination of the coupling angle in exchange-coupled multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1694-1696	2.8	24
90	Structural hierarchy of chromatin in chicken erythrocyte nuclei based on small-angle neutron scattering: Fractal nature of the large-scale chromatin organization. <i>Crystallography Reports</i> , 2008 , 53, 110-115	0.6	23
89	Simulations of off-specular scattering of polarized neutrons from laterally patterned magnetic multilayers. <i>Physica B: Condensed Matter</i> , 2003 , 335, 82-88	2.8	23
88	Polarized Neutron Reflectometry for the Analysis of Nanomagnetic Systems. <i>IEEE Transactions on Magnetism</i> , 2008 , 44, 1928-1934	2	22
87	Hyper-domains in exchange bias micro-stripe pattern. <i>New Journal of Physics</i> , 2008 , 10, 093021	2.9	22
86	Magnetic off-specular neutron scattering from Fe/Cr multilayers. <i>Physica B: Condensed Matter</i> , 2000 , 283, 194-198	2.8	22
85	Parallel and perpendicular lamellar phases in copolymer/nanoparticle multilayer structures. <i>Physica B: Condensed Matter</i> , 2004 , 350, E939-E942	2.8	21
84	Competing magnetic interactions in exchange-bias-modulated films. <i>Physical Review B</i> , 2010 , 81,	3.3	19
83	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	2.8	19
82	Grazing incidence neutron diffraction from large scale 2D structures. <i>Physica B: Condensed Matter</i> , 2000 , 283, 149-152	2.8	19
81	Domain-wall structure in thin films with perpendicular anisotropy: Magnetic force microscopy and polarized neutron reflectometry study. <i>Physical Review B</i> , 2014 , 90,	3.3	18
80	The potential of the horizontal reflectometer REFSANS/FRM-II for measuring low reflectivity and diffuse surface scattering. <i>Physica B: Condensed Matter</i> , 2004 , 350, E763-E766	2.8	18
79	Implementation of a zero-field spin-echo option at the three-axis spectrometer IN3 (ILL, Grenoble) and first application for measurements of phonon line widths in superfluid 4He. <i>Physica B: Condensed Matter</i> , 2003 , 335, 188-192	2.8	18

78	Influence of hole doping on spin dynamics in lightly doped copper oxide superconductors. <i>Physical Review B</i> , 1994 , 50, 12935-12949	3.3	18
77	Transverse and longitudinal susceptibilities of a Heisenberg ferromagnet with dipolar forces below T_c . <i>Physical Review B</i> , 1993 , 48, 16505-16513	3.3	17
76	Larmor pseudo-precession of neutron polarization at reflection. <i>Physica B: Condensed Matter</i> , 2005 , 356, 1-8	2.8	16
75	Birefringent Bragg Diffraction of Evanescent Neutron States in Magnetic Films. <i>Physical Review Letters</i> , 1998 , 81, 116-119	7.4	16
74	Spatial fluctuations of loose spin coupling in CuMn/Co multilayers. <i>Physical Review Letters</i> , 2011 , 107, 127201	7.4	15
73	New methodical developments for GRANIT. <i>Comptes Rendus Physique</i> , 2011 , 12, 729-754	1.4	15
72	Self-ordering of nanoparticles in magneto-organic composite films. <i>Physical Review B</i> , 2008 , 78,	3.3	15
71	Structural characterization and magnetic profile of annealed CoFeB/MgO multilayers. <i>Journal of Applied Physics</i> , 2009 , 105, 113911	2.5	14
70	The magnetic structure of coupled Fe/FeO multilayers revealed by nuclear resonant and neutron scattering methods. <i>New Journal of Physics</i> , 2009 , 11, 013038	2.9	14
69	Off-specular polarised neutron scattering from rough interfaces in Co/Ti and Fe/Al multilayered structures. <i>Physica B: Condensed Matter</i> , 1999 , 267-268, 190-193	2.8	14
68	On neutron depolarization in magnetized media. <i>European Physical Journal B</i> , 1989 , 74, 105-111	1.2	13
67	Growth modes of nanoparticle superlattice thin films. <i>Nanotechnology</i> , 2014 , 25, 205602	3.4	12
66	Polarized Neutron Reflectivity and Scattering from Magnetic Nanostructures and Spintronic Materials 2007 ,		12
65	Domains and interface roughness in Fe/Cr multilayers: influence on the GMR effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 258-259, 338-341	2.8	12
64	Optical theorem for neutron scattering from rough interfaces. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 954-955	2.8	12
63	Self organization of magnetic nanoparticles: A polarized grazing incidence small angle neutron scattering and grazing incidence small angle x-ray scattering study. <i>Journal of Applied Physics</i> , 2011 , 110, 102207	2.5	10
62	Layer-by-layer magnetometry of polarizing supermirrors. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s607-s609	2.6	10
61	Nuclear Spin Incoherent Neutron Scattering from Quantum Well Resonators. <i>Physical Review Letters</i> , 2019 , 123, 016101	7.4	8

60	Neutron Scattering in Nanomagnetism. <i>Experimental Methods in the Physical Sciences</i> , 2015 , 48, 339-434	0.4	8
59	Development and application of setup for ac magnetic field in neutron scattering experiments. <i>Review of Scientific Instruments</i> , 2010 , 81, 103303	1.7	8
58	AC-polarized neutron reflectometry: Application to domain dynamics in thin Fe film. <i>Journal of Physics: Conference Series</i> , 2010 , 211, 012016	0.3	8
57	Interface and surface formation in self-assembled polymer multilayers by off-specular neutron scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s528-s530	2.6	8
56	Ordering in magnetic multilayers by off-specular neutron scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 258-259, 382-387	2.8	8
55	Magnetic properties of laterally structured Fe/Cr multilayers. <i>Physica B: Condensed Matter</i> , 2003 , 335, 50-53	2.8	8
54	Phase-sensitive surface X-ray scattering study of a crystalline organic-organic heterostructure. <i>Physica B: Condensed Matter</i> , 2000 , 283, 75-78	2.8	8
53	Use of the optical theorem in polarized neutron small angle scattering from ferrofluid. <i>Physica B: Condensed Matter</i> , 1999 , 267-268, 203-206	2.8	8
52	Depth resolved grazing incidence neutron scattering experiments from semi-infinite interfaces: a statistical analysis of the scattering contributions. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 165901	1.8	7
51	Frequency dependence of magnetization reversal in thin Fe(100) films. <i>Physical Review B</i> , 2013 , 88,	3.3	7
50	Magnetization and magnetization reversal in epitaxial Fe/Cr/Co asymmetric spin-valve systems. <i>Physical Review B</i> , 2012 , 85,	3.3	7
49	Polarized Neutron Reflectivity Investigation of Periodic Magnetic Rings. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2731-2733	2	7
48	Larmor precession reflectometry. <i>Physica B: Condensed Matter</i> , 2004 , 350, E759-E762	2.8	7
47	Measuring lateral magnetic structures in thin films using time-of-flight polarized neutron reflectometry. <i>Physica B: Condensed Matter</i> , 2003 , 335, 77-81	2.8	7
46	Optical theorem, depolarization and vector tomography. <i>Physica B: Condensed Matter</i> , 2003 , 335, 174-182	2.8	7
45	Quantification of the magnetization arrangement of patterned films measured by polarized neutron reflectivity. <i>Physica B: Condensed Matter</i> , 2005 , 356, 14-20	2.8	7
44	Reflectivity and off-specular neutron scattering from the free ferrofluid surface and silicon-ferrofluid interface. <i>Physica B: Condensed Matter</i> , 2001 , 297, 194-197	2.8	7
43	Reflectivity and off-specular neutron scattering from ferrofluid. <i>Physica B: Condensed Matter</i> , 2000 , 283, 203-207	2.8	7

42	Polarized neutron reflectivity from monolayers of self-assembled magnetic nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 136001	1.8	6
41	Specular and off-specular polarized neutron reflectometry of canted magnetic domains in loose spin coupled CuMn/Co multilayers. <i>Physical Review B</i> , 2012 , 85,	3.3	6
40	Grazing incidence neutron diffraction from ferromagnetic films in multi-domain state. <i>Physica B: Condensed Matter</i> , 2005 , 356, 51-55	2.8	6
39	Interface formation and magnetic ordering in Fe/Cr hybrid nanostructures. <i>Physica B: Condensed Matter</i> , 2001 , 297, 118-121	2.8	6
38	Morphology of off-specular neutron scattering pattern from islands on a lamellar film. <i>Physica B: Condensed Matter</i> , 2000 , 283, 60-64	2.8	6
37	On polarized neutron scattering from magnetized samples and the spin echo effect. <i>European Physical Journal B</i> , 1988 , 71, 95-101	1.2	6
36	Combined specular and off-specular reflectometry: elucidating the complex structure of soft buried interfaces. <i>Journal of Applied Crystallography</i> , 2021 , 54,	3.8	6
35	Probing interspatial magnetic flux distributions in ferromagnetic stripe arrays by specular and off-specular polarized neutron scattering. <i>Physical Review B</i> , 2020 , 101,	3.3	5
34	Magnetic Structure of Ion-Beam Imprinted Stripe Domains Determined by Neutron Scattering. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
33	Reflectivity, Off-Specular Scattering, and GI-SAS 2012 , 411-432		5
32	Perspectives for polarised reflectometry at the novel reflectometer REFSANS at FRM-II in Munich/Germany. <i>Physica B: Condensed Matter</i> , 2003 , 335, 274-277	2.8	5
31	Angular encoding with Larmor precession. <i>Physica B: Condensed Matter</i> , 2005 , 357, 94-97	2.8	5
30	Observation of peculiarities in magnetic off-specular polarized neutron scattering from rough interfaces in Co/Ti periodic multilayer. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 700-701	2.8	5
29	Artificial Magnetic Pattern Arrays Probed by Polarized Neutron Reflectivity. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
28	Magnetization of magnetic films determined with Larmor pseudo-precession and spin echo. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 471-474	2.8	4
27	The structure of ferrofluids in the vicinity of an interface with silicon. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s817-s819	2.6	4
26	Off-specular neutron scattering from islands on a lamellar film. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 355-356	2.8	4
25	Study of the ferrofluid structure in low magnetic field by polarized neutrons. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 694-695	2.8	4

24	The effect of annealing on the junction profile of CoFeB/MgO tunnel junctions. <i>Journal of Applied Physics</i> , 2010 , 108, 063922	2.5	3
23	Polarized neutron reflectometry from the interface of the heterostructures SiO ₂ (Co)/Si and SiO ₂ (Co)/GaAs. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2547-2549	2.8	3
22	Off-specular polarized neutron scattering from periodic Co/Ti and aperiodic Fe/Al magnetic multilayers. <i>Physica B: Condensed Matter</i> , 2001 , 297, 175-179	2.8	3
21	Magnetization distribution in magnetic films studied with Larmor-encoding. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2553-2556	2.8	2
20	Polarized neutron studies on exchange-bias micro-stripe pattern. <i>Journal of Physics: Conference Series</i> , 2010 , 211, 012014	0.3	2
19	Quantum paramagnetic fluctuations in RbFeCl ₃ in a magnetic field applied perpendicular to the anisotropy axis. <i>Physical Review B</i> , 1997 , 55, 983-993	3.3	2
18	Identification of different magnetic modes in CsFeCl ₃ by polarisation analysis. <i>Physica B: Condensed Matter</i> , 1997 , 234-236, 549-551	2.8	2
17	Polarized neutron reflectometry study on a magnetic film with an ion beam imprinted stripe pattern. <i>Superlattices and Microstructures</i> , 2007 , 41, 104-108	2.8	2
16	Larmor precession reflectometry for magnetic film studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 586, 116-118	1.2	2
15	Larmor precession reflectometry for studying multilayers. <i>Crystallography Reports</i> , 2008 , 53, 308-315	0.6	2
14	Neutron magnetic tomography of ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 252, 95-97	2.8	2
13	Layer magnetization evolution in an Fe/Cr multilayer with uniaxial anisotropy. <i>Physica B: Condensed Matter</i> , 2003 , 335, 59-62	2.8	2
12	Magnetization Reversal Studies of Periodic Magnetic Arrays via Scattering Methods. <i>Springer Series in Materials Science</i> , 2007 , 65-96	0.9	2
11	2D reflectometry for the investigation of polymer interfaces: off-specular neutron scattering. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
10	Laterally patterned spin-valve superlattice: Magnetometry and polarized neutron scattering study. <i>Journal of Applied Physics</i> , 2015 , 117, 133903	2.5	1
9	Larmor encoding and Fourier reconstruction for wavelength dispersive reflectometry. <i>Physica B: Condensed Matter</i> , 2007 , 397, 141-143	2.8	1
8	Neutron quantum well states in Fe/Co/Fe trilayers. <i>Physica B: Condensed Matter</i> , 2004 , 350, E233-E235	2.8	1
7	Spin-resolved unpolarized neutron off-specular scattering for magnetic multilayer studies. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1557-s1559	2.6	1

6	Summary of the satellite workshop APNR. <i>Neutron News</i> , 2014 , 25, 9-10	0.4
5	Ferrofluid magnetization in the bulk and in the vicinity of an interface to Si. <i>Physica B: Condensed Matter</i> , 2003 , 335, 95-98	2.8
4	Polarized neutron methods and instrumentation for pulsed sources. <i>Physica B: Condensed Matter</i> , 2003 , 335, 143-146	2.8
3	Neutron tomography: Principles and realization. <i>Acta Physica Hungarica</i> , 1994 , 75, 291-299	
2	10.1007/s11445-008-2021-3 2010 , 53, 308	
1	Nanosession: Magnetic Interfaces and Surfaces 259-268	