

Eddy Lelièvre-Berna

List of Publications by Year in descending order

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118
all docs

118
docs citations

118
times ranked

2582
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral Paramagnetic Skyrmion-like Phase in MnSi. <i>Physical Review Letters</i> , 2009, 102, 197202.	2.9	277
2	Spin Density Maps in the Triplet Ground State of [Cu ₂ (t-Bupy) ₄ (N ₃) ₂](ClO ₄) ₂ (t-Bupy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (=p Society, 1998, 120, 5238-5245.	6.6	153
3	Properties on request in semi-Heusler phases. <i>Journal of Alloys and Compounds</i> , 1997, 262-263, 101-107.	2.8	147
4	Spin Fluctuations in(Y _{0.97} Sc _{0.03})Mn ₂ : A Geometrically Frustrated, Nearly Antiferromagnetic, Itinerant Electron System. <i>Physical Review Letters</i> , 1996, 76, 2125-2128.	2.9	131
5	Magnetic ordering in theXYpyrochlore antiferromagnet Er ₂ Ti ₂ O ₇ : a spherical neutron polarimetry study. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 452201.	0.7	89
6	Magnetization Density in an Iron(III) Magnetic Cluster. A Polarized Neutron Investigation. <i>Journal of the American Chemical Society</i> , 1999, 121, 5342-5343.	6.6	78
7	Determination of the magnetization distribution in Cr ₂ O ₃ using spherical neutron polarimetry. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 1957-1966.	0.7	76
8	Complex magnetic ground state ofCuB ₂ O ₄ . <i>Physical Review B</i> , 2003, 68, .	1.1	71
9	Spherical neutron polarimetry with Cryopad-II. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 69-74.	1.3	66
10	Compact magnetostatic cavity for polarised 3He neutron spin filter cells. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 560, 480-484.	0.7	56
11	Multiple low-temperature skyrmionic states in a bulk chiral magnet. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	49
12	3He neutron spin-filter. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 328-335.	1.3	48
13	Spiral spin structure in the Heisenberg pyrochlore magnetCdCr ₂ O ₄ . <i>Physical Review B</i> , 2007, 75, .	1.1	45
14	First results from Tyrex, the new polarized-3He filling station at ILL. <i>Physica B: Condensed Matter</i> , 2005, 356, 103-108.	1.3	43
15	Magnetic fluctuations and correlations in MnSi: Evidence for a chiral skyrmion spin liquid phase. <i>Physical Review B</i> , 2011, 83, .	1.1	40
16	Magnetic Fluctuations, Precursor Phenomena, and Phase Transition in MnSi under a Magnetic Field. <i>Physical Review Letters</i> , 2017, 119, 047203.	2.9	35
17	Magnetization density in the half-metallic ferromagnet NiMnSb. <i>Physica B: Condensed Matter</i> , 1997, 234-236, 602-604.	1.3	34
18	Recent advances in polarised 3He spin filters at the ILL. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 1146-1148.	1.3	34

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19	AFP flipper devices: Polarized ^3He spin flipper and shorter wavelength neutron flipper. Physica B: Condensed Matter, 2007, 397, 172-175.	1.3	34
20	Experimental and Theoretical Spin Density in a Ferromagnetic Molecular Complex Presenting Interheteromolecular Hydrogen Bonds. Journal of the American Chemical Society, 1999, 121, 10126-10133.	6.6	33
21	Magnetization densities in UCoAl studied by polarized neutron diffraction. Physical Review B, 2001, 63, .	1.1	33
22	Measurement of the neutron electric dipole moment via spin rotation in a non-centrosymmetric crystal. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 694, 22-25.	1.5	32
23	Field-induced spin-density wave beyond hidden order in URu ₂ Si ₂ . Nature Communications, 2016, 7, 13075.	5.8	32
24	Advances in spherical neutron polarimetry with Cryopad. Physica B: Condensed Matter, 2005, 356, 131-135.	1.3	31
25	Extended skyrmion lattice scattering and long-time memory in the chiral magnet Fe_2P . Physical Review B, 2016, 94, .	1.1	29
26	High hydrostatic pressure equipment for neutron scattering studies of samples in solutions. High Pressure Research, 2012, 32, 97-102.	0.4	26
27	Combined Charge and Spin Density Experimental Study of the Yttrium(III) Semiquinonato Complex Y(HBP ₂) ₂ (DTBSQ) and DFT Calculations. Journal of Physical Chemistry B, 2005, 109, 2723-2732.	1.2	25
28	Precision manipulation of the neutron polarisation vector. Physica B: Condensed Matter, 2007, 397, 120-124.	1.3	25
29	Universality of the helimagnetic transition in cubic chiral magnets: Small angle neutron scattering and neutron spin echo spectroscopy studies of FeCoSi. Physical Review B, 2017, 95, .	1.1	24
30	CRYOPAD on the triple-axis spectrometer TAS-1 at JAERI. Physica B: Condensed Matter, 2005, 356, 136-140.	1.3	22
31	ILL polarised hot-neutron beam facility D3. Physica B: Condensed Matter, 2005, 356, 141-145.	1.3	22
32	Particular features of ternary fission induced by polarized neutrons in the major actinides ^{233}U and ^{235}U . Physical Review C, 2016, 93, .	1.1	22
33	Measurement of the neutron electric dipole moment by crystal diffraction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 611, 124-128.	0.7	21
34	Cryopol: a superconducting magnetostatic cavity for a ^3He neutron spin filter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 638-648.	0.7	20
35	Spin density of a ferromagnetic TEMPO derivative: polarized neutron investigation and ab initio calculation. Journal of Materials Chemistry, 2000, 10, 1539-1546.	6.7	20
36	The cerium magnetic form factor and diffuse polarization in CeRh ₃ B ₂ as functions of temperature. Journal of Physics Condensed Matter, 2004, 16, 1211-1230.	0.7	20

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37	POLI-HEiDi: The new polarised neutron diffractometer at the hot source (SR9) at the FRM IIâ€”Project status. <i>Physica B: Condensed Matter</i> , 2009, 404, 2633-2636.	1.3	20
38	LOW-TEMPERATURE SPECIFIC HEAT OF YMn ₂ IN THE PARAMAGNETIC AND ANTIFERROMAGNETIC PHASES. <i>International Journal of Modern Physics B</i> , 1993, 07, 830-833.	1.0	19
39	Mid-term report of the NMI3 neutron spin filter project. <i>Physica B: Condensed Matter</i> , 2007, 397, 162-167.	1.3	19
40	³ He neutron spin filter at ILL. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 56-63.	1.3	17
41	On the evolution of the ground state in the system U x La 1 - x S: Polarized neutron diffraction and X-ray magnetic circular dichroism study. <i>European Physical Journal B</i> , 2001, 21, 547-552.	0.6	17
42	Implementation of a new Cryopad on the diffractometer POLI at MLZ. <i>Review of Scientific Instruments</i> , 2016, 87, 105108.	0.6	17
43	The D3C project: improvements and new fields of science. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 21-26.	1.3	16
44	Neutron optics P-violation effects near p-wave resonance. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 289-293.	1.3	16
45	The current status of the ³ He neutron spin filter (NSF) project at the ILL. <i>Physica B: Condensed Matter</i> , 2001, 297, 282-287.	1.3	15
46	Powder diffraction with spin polarized neutrons. <i>Measurement Science and Technology</i> , 2010, 21, 055106.	1.4	15
47	700 MPa sample stick for studying liquid samples or solid-gas reactions down to 1.8ÅK and up to 550ÅK. <i>Journal of Neutron Research</i> , 2017, 19, 77-84.	0.4	15
48	Skyrmions and spirals in MnSi under hydrostatic pressure. <i>Physical Review B</i> , 2019, 100, .	1.1	15
49	In-situ SEOP polarizer and initial tests on a high flux neutron beam. <i>Physica B: Condensed Matter</i> , 2009, 404, 2655-2658.	1.3	14
50	40-Tesla pulsed-field cryomagnet for single crystal neutron diffraction. <i>Review of Scientific Instruments</i> , 2018, 89, 053905.	0.6	14
51	Mn moment instability and magnetic structures of Tb _{1-x} Sc _x Mn ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 123, L249-L254.	1.0	13
52	Magnetism in intermediate-valence YbAl ₃ : a polarized neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 829-840.	0.7	13
53	Spherical neutron polarimetry of the magnetic structure in UNi ₂ Al ₃ . <i>Physical Review B</i> , 2001, 64, .	1.1	13
54	High-pressure cell for simultaneous dielectric and neutron spectroscopy. <i>Review of Scientific Instruments</i> , 2018, 89, 023904.	0.6	13

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55	Magnetisation distribution measurements from powders using a 3He spin filter: a test experiment. Physica B: Condensed Matter, 2005, 356, 254-258.	1.3	12
56	Overview of the projects recently developed by the advanced neutron environment team at the ILL. Physica B: Condensed Matter, 2006, 385-386, 1303-1305.	1.3	12
57	Magnetization and spin density in [FeCp* ₂] ⁺ . Polyhedron, 2001, 20, 1771-1778.	1.0	11
58	Spherical polarimetry on the three-axis spectrometer IN22. Physica B: Condensed Matter, 2003, 335, 255-258.	1.3	11
59	Polarimetric neutron spin echo: Feasibility and first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 592, 420-427.	0.7	11
60	1.5ÅGPa compact double-wall clamp cell for SANS and NSE studies at low temperatures and high magnetic fields. Journal of Neutron Research, 2018, 20, 25-33.	0.4	11
61	Magnetization densities in UPtAl: Experimental and theoretical study. Physical Review B, 2003, 67, .	1.1	10
62	Evolutionary programming for neutron instrument optimisation. Physica B: Condensed Matter, 2006, 385-386, 1349-1351.	1.3	10
63	Perspectives for nEDM Search by Crystal Diffraction. Test Experiment and Results. Nuclear Physics A, 2009, 827, 538c-540c.	0.6	10

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73	Polarized neutron scattering and x-ray magnetic circular dichroism studies of the heavy-fermion superconductor UNi ₂ Al ₃ . <i>Journal of Physics Condensed Matter</i> , 2000, 12, 7857-7867.	0.7	7
74	Novel polarized neutron tools. , 2002, 4785, 112.		7
75	Spherical neutron polarization analysis on the three-axis spectrometer IN22. <i>Physica B: Condensed Matter</i> , 2004, 350, E811-E814.	1.3	7
76	FIRST OBSERVATION OF THE NEUTRON SPIN ROTATION FOR LAUE DIFFRACTION IN A DEFORMED NONCENTROSYMMETRIC CRYSTAL. <i>International Journal of Modern Physics A</i> , 2008, 23, 1435-1445.	0.5	7
77	The ³ He neutron spin filter at ILL. <i>Neutron News</i> , 1997, 8, 27-32.	0.1	6
78	Calibration of the zero-field neutron polarimeter Cryopad II. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 177-179.	1.3	6
79	Remote monitoring over the Internet. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 412, 140-145.	0.7	6
80	Polarized neutron investigation in the mixed-valence compound Sm ₃ Te ₄ at different temperatures. <i>Physica B: Condensed Matter</i> , 2000, 281-282, 139-140.	1.3	6
81	Polarized neutrons for pulsed neutron sources. <i>Journal of Neutron Research</i> , 2005, 13, 193-223.	0.4	6
82	Polarised Neutron Developments in NMI3. <i>Neutron News</i> , 2009, 20, 30-33.	0.1	6
83	Investigation of the energy accumulation rate in solid deuterium irradiated with fast electrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 637-644.	0.7	6
84	General refinement strategy for magnetic structures using spherical neutron polarimetry and representation analysis. <i>Physica B: Condensed Matter</i> , 2009, 404, 2535-2538.	1.3	6
85	New pressure cells for membrane layers and systems in solutions up to 100Å°C. <i>Journal of Neutron Research</i> , 2018, 20, 3-12.	0.4	6
86	Polarized neutron studies of CeNiSn. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 9321-9332.	0.7	5
87	Magnetization density in the intermediate valence compound YbAl ₃ . <i>Physica B: Condensed Matter</i> , 1997, 234-236, 886-887.	1.3	5
88	On the magnetisation density of CeNiSn. <i>Physica B: Condensed Matter</i> , 1997, 230-232, 687-689.	1.3	4
89	Optimised polarisation measurements on Bragg peaks. <i>Physica B: Condensed Matter</i> , 2007, 397, 138-140.	1.3	4
90	Spherical neutron polarimetry applied to spin-echo and time-of-flight spectroscopy. <i>Physica B: Condensed Matter</i> , 2009, 404, 2624-2628.	1.3	4

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91	Light-irradiation at 700âMPa down to 1.5âK for neutron diffraction. Measurement Science and Technology, 2016, 27, 047001.	1.4	4
92	Absolute crystal and magnetic chiralities in the langasite compound Ba ₃ NbFe ₃ Si ₂ O ₁₄ determined by polarized neutron and x-ray scattering. Physical Review B, 2020, 102, .	1.1	4
93	Spin Fluctuations in (Y _{0.97} Sc _{0.03})Mn ₂ : A Geometrically Frustrated, Nearly Antiferromagnetic, Itinerant Electron System. Physical Review Letters, 1996, 77, 790-790.	2.9	3
94	Experimental and Theoretical Spin Density in a Ferromagnetic Molecular Complex. Molecular Crystals and Liquid Crystals, 1999, 334, 211-220.	0.3	3
95	Recent news on ILL polarised 3He developments. Physica B: Condensed Matter, 2000, 276-278, 65-66.	1.3	3
96	Magnetization distribution in Si-doped spin-Peierls compound CuGeO ₃ . Physica B: Condensed Matter, 2001, 297, 221-225.	1.3	3
97	Challenges in neutron spin echo spectroscopy. Physica B: Condensed Matter, 2009, 404, 2578-2581.	1.3	3
98	Optimization of multi-channel neutron focusing guides for extreme sample environments. Journal of Physics: Conference Series, 2014, 528, 012006.	0.3	3
99	Unambiguous determination of the commensurate antiferromagnetic structure of HoNi ₂ B ₂ C in the superconducting ground state. Physical Review B, 2019, 100, .	1.1	3
100	Magnetic frustration and instability in Dy ^{1â} La Mn ₂ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 811-812.	1.0	2
101	Magnetization distribution in paramagnetic nickel and cobalt oxides. Physica B: Condensed Matter, 2004, 350, E265-E267.	1.3	2
102	Magnetic moment densities in selected UTX compounds. Physica B: Condensed Matter, 2004, 350, E131-E134.	1.3	2
103	The microscopic magnetisation of the superconductor. Journal of Magnetism and Magnetic Materials, 2007, 310, 709-711.	1.0	2
104	Spin Density of a Ferromagnetic Tempo Derivative. Molecular Crystals and Liquid Crystals, 1999, 334, 359-367.	0.3	1
105	Magnetization density in the heavy-fermion superconductor UNi ₂ Al ₃ . Physica B: Condensed Matter, 2000, 276-278, 797-798.	1.3	1
106	Recent studies in magnetisation densities. , 2000, , 225-232.		1
107	The D3 project: To investigate better exotic magnetic systems with novel polarized neutron techniques. Neutron News, 2002, 13, 28-31.	0.1	1
108	Polarized neutron diffraction study of CePd ₃ . Physica B: Condensed Matter, 2004, 350, E103-E105.	1.3	1

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109	Remote crystal alignment at cryogenic temperature for neutron scattering. Journal of Neutron Research, 2017, 19, 27-32.	0.4	1
110	Serge Pujol (1944â€“2018). Journal of Neutron Research, 2019, 21, 3-6.	0.4	1
111	Neutron diffraction at high pressure, low temperature under light irradiation. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C395-C395.	0.0	1
112	One-dimensional and spherical polarization analysis of artificially confined spin-density waves in Cr/Sn multilayers. Physica B: Condensed Matter, 2007, 397, 56-58.	1.3	0
113	Message from the new Editor-in-Chief. Journal of Neutron Research, 2017, 19, 87-87.	0.4	0
114	Spin density investigation for a better determination of the magnetic structure. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, c197-c197.	0.3	0
115	Polarimetric neutron spin echo spectroscopy. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C189-C189.	0.3	0