

Catherine Pappas

List of Publications by Year in descending order

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all docs

99
docs citations

99
times ranked

1880
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic phase diagram and cluster glasslike properties of stage-1 graphite-intercalated FeCl_2 . Physical Review B, 2022, 105, .		
2	Evolution of helimagnetic correlations when approaching the quantum critical point of Mn_2P . Physical Review Research, 2021, 3, .		
3	Field-driven metamorphoses of isolated skyrmions within the conical state of cubic helimagnets. Physical Review B, 2021, 104, .	1.1	21
4	Phase-transformation and precipitation kinetics in vanadium micro-alloyed steels by in-situ, simultaneous neutron diffraction and SANS. Acta Materialia, 2021, 220, 117317.	3.8	8
5	Multiple skyrmionic states and oblique spirals in bulk cubic helimagnets. , 2021, , 347-366.		1
6	Field-induced vortex-like textures as a probe of the critical line in reentrant spin glasses. Scientific Reports, 2021, 11, 20753.	1.6	2
7	Evolution of the precipitate composition during annealing of vanadium micro-alloyed steels by in-situ SANS. Acta Materialia, 2020, 201, 217-230.	3.8	12
8	Semi-analytical calculations of intrinsic field magnetic field inhomogeneities for a Neutron Spin Echo spectrometer at the ESS. Journal of Neutron Research, 2020, 21, 167-180.	0.4	0
9	Analysis of SESANS data by numerical Hankel transform implementation in SasView. Journal of Neutron Research, 2020, 22, 57-70.	0.4	5
10	Furnace for in situ and simultaneous studies of nano-precipitates and phase transformations in steels by SANS and neutron diffraction. Review of Scientific Instruments, 2020, 91, 123903.	0.6	3
11	Field and anisotropy driven transformations of spin spirals in cubic skyrmion hosts. Physical Review Research, 2020, 2, .	1.3	15
12	Fibre formation in calcium caseinate influenced by solvent isotope effect and drying method – A neutron spectroscopy study. Chemical Engineering Science, 2019, 207, 1270-1277.	1.9	5
13	Multiple low-temperature skyrmionic states in a bulk chiral magnet. Npj Quantum Materials, 2019, 4, .	1.8	49
14	Skyrmions and spirals in MnSi under hydrostatic pressure. Physical Review B, 2019, 100, .	1.1	15
15	Interaction of precipitation with austenite-to-ferrite phase transformation in vanadium micro-alloyed steels. Acta Materialia, 2019, 181, 10-24.	3.8	41
16	Skyrmion clusters and conical droplets in bulk helimagnets with cubic anisotropy. Physical Review B, 2019, 99, .	1.1	17
17	Magnetization and ac susceptibility study of the cubic chiral magnet Mn_2P . Physical Review B, 2018, 98, .		
18	Evolution of helimagnetic correlations in Mn_2P with doping: A small-angle neutron scattering study. Physical Review B, 2018, 98, .		

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19	New magnetic phase of the chiral skyrmion material Cu_2OSeO_3 . Science Advances, 2018, 4, eaat7323.	4.7	66
20	FISH: A thermal neutron imaging station at HOR Delft. Journal of Archaeological Science: Reports, 2018, 20, 369-373.	0.2	3
21	Spin textures induced by quenched disorder in a reentrant spin glass: Vortices versus "frustrated" skyrmions. Physical Review B, 2018, 98, .	1.1	12
22	1.5 ÅPa 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
23	Feasibility and applications of the spin-echo modulation option for a small angle neutron scattering instrument at the European Spallation Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 856, 119-132.	0.7	4
24	Influence of neutron irradiation on the microstructure of nuclear graphite: An X-ray diffraction study. Journal of Nuclear Materials, 2017, 487, 323-330.	1.3	20
25	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
26	Magnetic Fluctuations, Precursor Phenomena, and Phase Transition in MnSi under a Magnetic Field. Physical Review Letters, 2017, 119, 047203.	2.9	35
27	Reorientations, relaxations, metastabilities, and multidomains of skyrmion lattices. Physical Review B, 2017, 96, .	1.1	31
28	How to polarise all neutrons in one beam: a high performance polariser and neutron transport system. Journal of Physics: Conference Series, 2016, 746, 012015.	0.3	2
29	Design and performance of a novel neutron powder diffractometer: PEARL at TU Delft. Journal of Applied Crystallography, 2016, 49, 1398-1401.	1.9	34
30	Extended skyrmion lattice scattering and long-time memory in the chiral magnet $\text{Fe}_1-x\text{Co}_x\text{Si}$. Physical Review B, 2016, 94, .	1.1	29
31	Phase diagram and magnetic relaxation phenomena in Cu_2OSeO_3 . Physical Review B, 2016, 94, .	1.1	43
32	Magnetic relaxation phenomena in the chiral magnet $\text{Fe}_1-x\text{Co}_x\text{Si}$: An ac susceptibility study. Physical Review B, 2016, 94, .	1.1	32
33	From nanopores to macropores: Fractal morphology of graphite. Carbon, 2016, 96, 541-547.	5.4	23
34	Quantitative Neutron Dark-field Imaging through Spin-Echo Interferometry. Scientific Reports, 2015, 5, 16576.	1.6	30
35	Quasielastic neutron scattering experiment on water using TOFLAR (Time Of Flight and LARmor) Tj ETQq1 1 0.784314 rgBT / Overlock 0.1	0.1	0
36	Positron and thermal desorption studies on He ion implanted nuclear graphite. Journal of Physics: Conference Series, 2014, 505, 012014.	0.3	7

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37	Magnetism and magnetic materials probed with neutron scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 350, 86-87.	1.0	4
38	Interpretation of X-ray diffraction patterns of (nuclear) graphite. <i>Carbon</i> , 2014, 69, 17-24.	5.4	51
39	Polarized neutron imaging: A spin-echo approach. <i>Physica B: Condensed Matter</i> , 2011, 406, 2415-2418.	1.3	18
40	Magnetic fluctuations and correlations in MnSi: Evidence for a chiral skyrmion spin liquid phase. <i>Physical Review B</i> , 2011, 83, .	1.1	40
41	New polarizing guide for neutron wavelengths above 2.5 Å... <i>Journal of Physics: Conference Series</i> , 2010, 251, 012081.	0.3	2
42	Design and experimental tests of a novel neutron spin analyzer for wide angle spin echo spectrometers. <i>Review of Scientific Instruments</i> , 2009, 80, 095105.	0.6	4
43	Temperature Dependence of the Primary Relaxation in 1-Hexyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}imide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8469-8474.	1.2	76
44	Challenges in neutron spin echo spectroscopy. <i>Physica B: Condensed Matter</i> , 2009, 404, 2578-2581.	1.3	3
45	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
46	Upgrade Program for the Cold Neutron Instrumentation of the Helmholtz-Zentrum Berlin. <i>Neutron News</i> , 2009, 20, 16-19.	0.1	3
47	Chiral Paramagnetic Skyrmion-like Phase in MnSi. <i>Physical Review Letters</i> , 2009, 102, 197202.	2.9	277
48	Generalized Spin-Glass Relaxation. <i>Physical Review Letters</i> , 2009, 102, 097202.	2.9	146
49	Polarimetric neutron spin echo: Feasibility and first results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 592, 420-427.	0.7	11
50	Temperature dependence of three-point correlation functions of viscous liquids: the case of glycerol. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494240.	0.7	6
51	Polarimetric neutron spin echo spectroscopy. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, C189-C189.	0.3	0
52	The wide-angle neutron spin echo spectrometer project WASP. <i>Journal of Neutron Research</i> , 2007, 15, 39-47.	0.4	20
53	Spin freezing in the re-entrant spin glass FeNiMn close to the frustration limit. <i>Physica B: Condensed Matter</i> , 2007, 397, 105-107.	1.3	1
54	A novel approach to modelling non-exponential spin glass relaxation. <i>Physica B: Condensed Matter</i> , 2007, 397, 99-101.	1.3	3

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55	Dynamical scaling and critical scattering in pure and disordered ferromagnets probed by NSE. Physica B: Condensed Matter, 2007, 397, 102-104.	1.3	1
56	Evolutionary programming for neutron instrument optimisation. Physica B: Condensed Matter, 2006, 385-386, 1349-1351.	1.3	10
57	Neutron-Spin-Echo Spectroscopy and Magnetism. , 2006, , 521-542.		2
58	Going to the limits of NSE. Physica B: Condensed Matter, 2005, 356, 206-212.	1.3	4
59	Aspects of Neutron Spin-echo Spectrometer Operation on a Pulsed Source. Journal of Neutron Research, 2005, 13, 63-66.	0.4	1
60	Dynamics of spin freezing in the re-entrant spin glass FeNiMn. Physica B: Condensed Matter, 2004, 350, E1051-E1054.	1.3	1
61	The high-resolution neutron spin-echo spectrometer for the SNS with $\lambda = 3/4$ Å. Physica B: Condensed Matter, 2004, 350, 147-150.	1.3	26
62	Dynamic scaling in spin glasses. Physical Review B, 2003, 68, .	1.1	27
63	Diffusion Studies in Ordered Alloys. , 2003, , 229-237.		0
64	Neutron spin-echo spectroscopy for diffusion in crystalline solids. Physical Review B, 2002, 66, .	1.1	2
65	Experimental evidence for dynamic scaling in spin glasses. Applied Physics A: Materials Science and Processing, 2002, 74, s907-s909.	1.1	5
66	Wide-angle NSE and TOF: the spectrometer SPAN at BENSC. Applied Physics A: Materials Science and Processing, 2002, 74, s286-s288.	1.1	2
67	Characterization of trehalose aqueous solutions by neutron spin echo. Applied Physics A: Materials Science and Processing, 2002, 74, s461-s462.	1.1	2
68	Diffusion in solids studied by nuclear resonant X-ray and neutron scattering. Journal of Synchrotron Radiation, 2002, 9, 210-214.	1.0	4
69	Realization of wide angle NSE: The spectrometer SPAN. Neutron News, 2001, 12, 19-24.	0.1	0
70	Wide angle NSE:the spectrometer SPAN at BENSC. Physica B: Condensed Matter, 2001, 297, 14-17.	1.3	6
71	Temperature dependence of local chain dynamics in atactic polypropylene: a neutron spin-echo study. Physica B: Condensed Matter, 2001, 301, 157-162.	1.3	9
72	HMI holds workshop on neutron spin echo spectroscopy. Neutron News, 2001, 12, 4-5.	0.1	0

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73	Probing Jump Diffusion in Crystalline Solids with Neutron Spin-Echo Spectroscopy. <i>Physical Review Letters</i> , 2001, 87, 175901.	2.9	12
74	Wide angle NSE: the multidetector spectrometer SPAN at BENSC. <i>Physica B: Condensed Matter</i> , 2000, 283, 365-371.	1.3	28
75	The novel multidetector neutron spin echo spectrometer SPAN at BENSC. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 162-163.	1.3	9
76	What neutrons do tell us about the nature of (spin) glasses?. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 543-546.	1.3	5
77	Neutron spin echo measurements on the Jahnâ€Teller system CsCuCl ₃ . <i>Physica B: Condensed Matter</i> , 2000, 276-278, 312-313.	1.3	0
78	Performance of the multidetector NSE spectrometer SPAN at BENSC. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 285-288.	1.3	16
79	Applications of remanent supermirror polarizers. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 320-327.	1.3	53
80	Ferromagnetic critical correlations in AuFe re-entrant ferromagnets. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 594-596.	1.3	0
81	The novel NSE spectrometer at BER II. <i>Journal of Neutron Research</i> , 1996, 5, 35-39.	0.4	9
82	Ferromagnetic critical correlations and dynamics in AuFe reentrant ferromagnets. <i>Journal of Applied Physics</i> , 1996, 79, 6158.	1.1	5
83	The polarizing beam splitter guide at BENSC. <i>Physica B: Condensed Matter</i> , 1995, 213-214, 939-941.	1.3	49
84	Unusual critical dynamics in AuFe re-entrant ferromagnets. <i>Physica B: Condensed Matter</i> , 1992, 180-181, 359-360.	1.3	7
85	Coexistence of superconductivity and disordered magnetism in oxygen deficient YBa ₂ Cu ₃ O _x . <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 1669-1670.	0.6	14
86	The frequency dependence of the AC susceptibility of rare-earth-doped scandium spin glasses. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, 2759-2772.	1.5	3
87	Field dependent critical fluctuations above T _g in the ESR linewidth of the spin glass Ag:Mn. <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 179-180.	1.0	9
88	Field dependent critical fluctuations above T _g in the ESR line width of the spin glass AgMn. <i>European Physical Journal B</i> , 1986, 63, 351-364.	0.6	19
89	Spin-glass critical behaviour in the non-dilute disordered insulator CsNiFeF ₆ . <i>Journal De Physique</i> , 1985, 46, 637-648.	1.8	36
90	Frequency-dependent susceptibility and Mossbauer experiments in CsNiFeF ₆ . <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 2817-2830.	1.5	17

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91	Spin-glass-like H-T phase diagram for the frustrated insulator CsNiFeF6. Journal of Physics C: Solid State Physics, 1984, 17, 1303-1315.	1.5	29
92	Specific heat measurements in the highly frustrated CsMnFeF6 and CsNiFeF6 compounds. Journal of Magnetism and Magnetic Materials, 1983, 31-34, 1391-1392.	1.0	7
93	Very low field susceptibility of the highly frustrated CsMnFeF6 and CsNiFeF6 compounds. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 89, 423-426.	0.9	31
94	Magnetic properties of some amorphous alloys containing light rare earth (LRE) ions. Journal of Magnetism and Magnetic Materials, 1980, 15-18, 97-98.	1.0	11
95	New Twist in Chiral Magnets. Physics Magazine, 0, 5, .	0.1	13