

Stephen E Nagler

List of Publications by Year in descending order

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158
papers

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citations

31902

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162
all docs

162
docs citations

162
times ranked

6978
citing authors

#	ARTICLE	IF	CITATIONS
1	Proximate Kitaev quantum spin liquid behaviour in a honeycomb magnet. Nature Materials, 2016, 15, 733-740.	13.3	762
2	Neutron scattering in the proximate quantum spin liquid $\hat{I}\pm$ -RuCl ₃ . Science, 2017, 356, 1055-1059.	6.0	499
3	Concept and realization of Kitaev quantum spin liquids. Nature Reviews Physics, 2019, 1, 264-280.	11.9	464
4	Observation of speckle by diffraction with coherent X-rays. Nature, 1991, 352, 608-610.	13.7	371
5	Low-temperature crystal and magnetic structure of $\hat{I}\pm$ -RuCl ₃ . Physical Review B, 2016, 93, .	13.3	411
6	Quantum criticality and universal scaling of a quantum antiferromagnet. Nature Materials, 2005, 4, 329-334.	13.3	267
7	Excitations in the field-induced quantum spin liquid state of $\hat{I}\pm$ -RuCl ₃ . Npj Quantum Materials, 2018, 3, .	1.8	254
8	Two-dimensional resonant magnetic excitation in $\hat{I}\pm$ -RuCl ₃ . Physical Review Letters, 2009, 102, 107005.	2.9	237
9	Magnetic Excitations in the $S=1/2$ Alternating Chain Compound (VO) ₂ P ₂ O ₇ . Physical Review Letters, 1997, 79, 745-748.	2.9	204
10	SEQUOIA: A Newly Operating Chopper Spectrometer at the SNS. Journal of Physics: Conference Series, 2010, 251, 012058.	0.3	191
11	Unbound spinons in the $S=1/2$ antiferromagnetic chain KCuF ₃ . Physical Review Letters, 1993, 70, 4003-4006.	2.9	188
12	Evolution of spin excitations into the superconducting state in FeTe _{1-x} Sex. Nature Physics, 2010, 6, 182-186.	6.5	151
13	Static and Dynamic Magnetism in Underdoped Superconductor $\hat{I}\pm$ -RuCl ₃ . Physical Review Letters, 2009, 103, 087002.	2.9	150
14	Magnetic Spin Ladder (C ₅ H ₁₂ N) ₂ CuBr ₄ : High-Field Magnetization and Scaling near Quantum Criticality. Physical Review Letters, 2001, 86, 5168-5171.	2.9	148
15	Unusual Phonon Heat Transport in $\hat{I}\pm$ -RuCl ₃ : Strong Spin-Phonon Scattering and Field-Induced Spin Gap. Physical Review Letters, 2018, 120, 117204.	2.9	145
16	Magnetic and Orbital Ordering in the Spinel MnV ₂ O ₄ . Physical Review Letters, 2008, 100, 066404.	2.9	145
17	An NCN-pincer ligand dysprosium single-ion magnet showing magnetic relaxation via the second excited state. Scientific Reports, 2014, 4, 5471.	1.6	138
18	Spin Waves in the Frustrated Kagomé Lattice Antiferromagnet KFe ₃ (OH) ₆ (SO ₄) ₂ . Physical Review Letters, 2006, 96, 247201.	2.9	136

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19	Visualizing the chemistry and structure dynamics in lithium-ion batteries by in-situ neutron diffraction. Scientific Reports, 2012, 2, 747.	1.6	134
20	Magnetic correlations in the quasi-two-dimensional semiconducting ferromagnet CrSiTe . Physical Review B, 2015, 92, .	1.1	134
21	Three-Dimensional Magnetic Correlations in Multiferroic LuFe_2O_4 . Physical Review Letters, 2008, 100, 107601.	2.9	130
22	Measurement of the spin-excitation continuum in one-dimensional KCuF_3 using neutron scattering. Physical Review B, 1995, 52, 13368-13380.	1.1	128
23	Multispinon Continua at Zero and Finite Temperature in a Near-Ideal Heisenberg Chain. Physical Review Letters, 2013, 111, 137205.	2.9	122
24	Charge Order in $\text{LuFe}_4\text{O}_{12}$: Antiferroelectric Ground State and Coupling to Magnetism. Physical Review Letters, 2008, 101, 227601.	2.9	120
25	Spin dynamics in the quantum antiferromagnetic chain compound KCuF_3 . Physical Review B, 1991, 44, 12361-12368.	1.1	113
26	Oscillations of the thermal conductivity in the spin-liquid state of $\hat{1}\pm\text{-RuCl}_3$. Nature Physics, 2021, 17, 915-919.	6.5	103
27	Phase diagram and phase transitions of Krypton on graphite in the extended monolayer regime. European Physical Journal B, 1987, 69, 347-377.	0.6	101
28	Role of the template layer in organizing self-assembled films: zirconium phosphonate monolayers and multilayers at a Langmuir-Blodgett template. Journal of the American Chemical Society, 1994, 116, 295-301.	6.6	100
29	Improved laser frequencies and Dunham coefficients for isotopically substituted carbon monoxide. Canadian Journal of Physics, 1979, 57, 677-686.	0.4	93
30	Time-Resolved X-Ray Scattering Study of Ordering and Coarsening in Cu_3Au . Physical Review Letters, 1988, 61, 718-721.	2.9	91
31	Short-range ordering and freezing in a randomly mixed ferroelectric-antiferroelectric crystal. Physical Review B, 1984, 29, 515-518.	1.1	87
32	Ising-like spin- $\hat{1}/2$ quasi-one-dimensional antiferromagnets: Spin-wave response in CsCoX_3 salts. Physical Review B, 1983, 27, 1784-1799.	1.1	85
33	Antiferromagnetic Resonance and Terahertz Continuum in $\hat{1}\pm\text{-RuCl}_3$. Physical Review Letters, 2017, 119, 227201.	2.9	85
34	Orientational order in xenon fluid monolayers on single crystals of exfoliated graphite. Physical Review B, 1985, 32, 7373-7383.	1.1	80
35	Novel Longitudinal Mode in the Coupled Quantum Chain Compound KCuF_3 . Physical Review Letters, 2000, 85, 832-835.	2.9	79
36	Small-angle x-ray-scattering study of ordering kinetics in a block copolymer. Physical Review Letters, 1990, 64, 2285-2288.	2.9	78

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37	Weak Ferromagnetism and Field-Induced Spin Reorientation in $K_2V_3O_8$. Physical Review Letters, 2001, 86, 159-162.	2.9	78
38	Finite field regime for a quantum spin liquid in \hat{I}_\pm . Physical Review B, 2019, 100, .	1.1	78
39	Pressure-induced dimerization and valence bond crystal formation in the Kitaev-Heisenberg magnet \hat{I}_\pm . Physical Review B, 2018, 97, .	1.1	75
40	Experimental Observation of Continuous Melting into a Hexatic Phase. Physical Review Letters, 1983, 50, 1791-1794.	2.9	74
41	Rotational Transition of Incommensurate Kr Monolayers on Graphite. Physical Review Letters, 1984, 53, 2250-2253.	2.9	74
42	Magnetic order and ice rules in the multiferroic spinel FeV_2O_7 . Physical Review B, 2012, 86, .	1.1	72
43	Excitation Spectrum and Superexchange Pathways in the Spin Dimer $VODPO_4 \cdot 12D_2O$. Physical Review Letters, 1997, 78, 4998-5001.	2.9	67
44	Atomic-scale observation of structural and electronic orders in the layered compound \hat{I}_\pm - $RuCl_3$. Nature Communications, 2016, 7, 13774.	5.8	66
45	Solitons in the one-dimensional antiferromagnet $CsCoBr_3$. Physical Review B, 1983, 28, 3873-3885.	1.1	64
46	Unconventional spin dynamics in the honeycomb-lattice material \hat{I}_\pm : High-field electron spin resonance studies. Physical Review B, 2017, 96, .	1.1	64
47	Unusual Relationship between Magnetism and Superconductivity in $FeTe_{0.5}Se_{0.5}$. Physical Review Letters, 2010, 104, 187002.	2.9	62
48	Detection of Kardar-Parisi-Zhang hydrodynamics in a quantum Heisenberg spin-1/2 chain. Nature Physics, 2021, 17, 726-730.	6.5	60
49	Exchange mixing and soliton dynamics in the quantum spin chain $CsCoCl_3$. Physical Review B, 1995, 52, 15992-16000.	1.1	59
50	Antiferromagnetic transitions in tetragonal-like $BiFeO_3$. Physical Review B, 2012, 85, .	1.1	59
51	Anisotropic susceptibilities in the honeycomb Kitaev system \hat{I}_\pm . Physical Review B, 2018, 98, .	1.1	59
52	Competing Ferri- and Antiferromagnetic Phases in Geometrically Frustrated $LuFe_2O_4$. Physical Review Letters, 2012, 108, 037206.	2.9	55
53	Propagating Domain Walls in $CsCoBr_3$. Physical Review Letters, 1982, 49, 590-592.	2.9	54
54	Time-resolved x-ray-scattering study of ordering kinetics in bulk single-crystal Cu_3Au . Physical Review B, 1992, 46, 40-54.	1.1	54

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55	Probing spin frustration in high-symmetry magnetic nanomolecules by inelastic neutron scattering. <i>Physical Review B</i> , 2006, 73, .	1.1	54
56	Charge-Transfer Plasmon Polaritons at Graphene/ $\sqrt{3}\times\sqrt{3}$ -RuCl ₃ Interfaces. <i>Nano Letters</i> , 2020, 20, 8438-8445.	4.5	53
57	Field evolution of magnons in $\sqrt{2}\times\sqrt{2}$ -MnF ₂ by high-resolution polarized terahertz spectroscopy. <i>Physical Review B</i> , 2018, 98, .	1.1	47
58	Structural ordering and symmetry breaking in Cd ₂ Re ₂ O ₇ . <i>Physical Review B</i> , 2002, 66, .	1.1	47
59	Neutron scattering study of two-magnon states in the quantum magnet copper nitrate. <i>Physical Review B</i> , 2003, 67, .	1.1	47
60	Frustration by competing interactions in the highly distorted double perovskites La ₂ NaB ₂ O ₆ (B ²⁺ =Ru, Os). <i>Physical Review B</i> , 2013, 87, .	1.1	46
61	Effects of coupling between chains on the magnetic excitation spectrum of KCuF ₃ . <i>Physical Review B</i> , 1995, 52, 13381-13389.	1.1	45
62	Structural, magnetic, and transport properties of La ₂ Cu _{1-x} Li _x O ₄ . <i>Physical Review B</i> , 1996, 54, 12014-12017.	1.1	45
63	Longitudinal magnetic dynamics and dimensional crossover in the quasi-one-dimensional spin-1 Heisenberg antiferromagnet KCuF ₃ . <i>Physical Review B</i> , 2005, 71, .	1.1	45
64	Magnetic Field Enhancement of Heat Transport in the 2D Heisenberg Antiferromagnet K ₂ V ₃ O ₈ . <i>Physical Review Letters</i> , 2002, 88, 095901.	2.9	44
65	Single crystal growth and characterization of nearly stoichiometric LiVO ₂ . <i>Materials Research Bulletin</i> , 2004, 39, 1319-1328.	2.7	44
66	Polarized-Neutron Observation of Longitudinal Haldane-Gap Excitations in Nd ₂ BaNiO ₅ . <i>Physical Review Letters</i> , 1999, 82, 2382-2385.	2.9	43
67	Quantum Spin Correlations in an Organometallic Alternating-Sign Chain. <i>Physical Review Letters</i> , 2007, 99, 087204.	2.9	42
68	Comprehensive study of the dynamics of a classical Kitaev spin liquid. <i>Physical Review B</i> , 2017, 96, .	1.1	42
69	Single-ion properties of the antiferromagnetic pyrochlores Na ₂ A ₂ Cl ₄ . <i>Physical Review B</i> , 2017, 95, .	1.1	42
70	Low-temperature magnetic measurements of an S=1 linear-chain Heisenberg antiferromagnet. <i>Physical Review B</i> , 1992, 46, 8655-8658.	1.1	41
71	Kinetically inhibited order in a diamond-lattice antiferromagnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15693-15698.	3.3	41
72	Dimethylammonium Trichlorocuprate(II): Structural Transition, Low-Temperature Crystal Structure, and Unusual Two-Magnetic Chain Structure Dictated by Nonbonding Chloride-Chloride Contacts. <i>Inorganic Chemistry</i> , 2006, 45, 7689-7697.	1.9	39

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73	Field-induced intermediate ordered phase and anisotropic interlayer interactions in LiFePO_4 . Physical Review B, 2021, 103, .		
74	Witnessing entanglement in quantum magnets using neutron scattering. Physical Review B, 2021, 103, .	1.1	39
75	The range of non-Kitaev terms and fractional particles in Li_2RuCl_4 . Npj Quantum Materials, 2020, 5, .	1.8	38
76	Neutron-scattering study of magnetic excitations in $(\text{VO})_2\text{P}_2\text{O}_7$. Physical Review B, 1997, 55, 3631-3635.	1.1	37
77	Evidence of a Phonon Hall Effect in the Kitaev Spin Liquid Candidate Li_2RuCl_4 . Physical Review X, 2022, 12, .	2.8	37
78	Time-resolved small-angle x-ray-scattering study of ordering kinetics in diblock styrene-butadiene. Physical Review B, 1993, 47, 8425-8435.	1.1	36
79	Destabilization of Magnetic Order in a Dilute Kitaev Spin Liquid Candidate. Physical Review Letters, 2017, 119, 237203.	2.9	36
80	Long-range antiferromagnetic order in the $S=1$ chain compound LiVGe_2O_6 . Physical Review B, 2000, 62, R9244-R9247.	1.1	34
81	Spin dynamics in the linear-chain $S=1$ antiferromagnet $\text{Ni}(\text{C}_3\text{H}_7\text{N}_2)_2\text{Ni}(\text{ClO}_4)$. Physical Review B, 1996, 53, 15004-15009.	1.1	33
82	Nature of Magnetic Excitations in the High-Field Phase of Li_2RuCl_4 . Physical Review Letters, 2020, 125, 037202.	2.9	33
83	Neutron scattering evidence for isolated spin-1 ladders in $(\text{C}_5\text{D}_{12}\text{N})_2\text{CuBr}_4$. Physical Review B, 2009, 80, .	1.1	31
84	Effect of extra Cu on ordering kinetics in thin films of Cu_3Au . Physical Review B, 1988, 38, 9327-9330.	1.1	27
85	Square-lattice spiral magnet $\text{Ba}_2\text{CuGe}_2\text{O}_7$ in an in-plane magnetic field. Physical Review B, 1997, 56, 14006-14012.	1.1	27
86	Spin-wave response in the one dimensional anisotropic antiferromagnet CsCoCl_3 . Solid State Communications, 1980, 33, 857-860.	0.9	26
87	Quantum and classical dynamics in mixed-spin one-dimensional antiferromagnets. Journal of Physics Condensed Matter, 2001, 13, R525-R536.	0.7	26
88	Structural transition and orbital glass physics in near-itinerant CoV_2O_4 . Physical Review B, 2016, 93, .	1.1	25
89	Structural and magnetic transitions in spinel FeM_2O_4 . Physical Review B, 2018, 97, .	1.1	25
90	Polarization-resolved Raman spectroscopy of Li_2RuCl_4 and evidence of room-temperature two-dimensional magnetic scattering. Physical Review B, 2019, 100, .		

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91	Field-induced transitions in the Kitaev material $\hat{I}\hat{\alpha}\hat{\sim}\text{RuCl}_3$ probed by thermal expansion and magnetostriction. <i>Physical Review B</i> , 2020, 101, .	1.1	24
92	Strain dependence of transition temperatures and structural symmetry of BiFeO_3 within the tetragonal-like structure. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	23
93	The early development of neutron diffraction: science in the wings of the Manhattan Project. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 37-44.	0.3	23
94	Quasi-One-Dimensional Magnons in an Intermetallic Marcasite. <i>Physical Review Letters</i> , 2012, 108, 167202.	2.9	21
95	Revisiting the ground state of CoAl_2O_4 : Comparison to the conventional antiferromagnet	1.1	21
96	Static and dynamic spin correlations in the random one-dimensional antiferromagnetic $\text{CsCoMg}_{1-x}\text{Cl}_3$. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 4819-4835.	1.5	20
97	Temperature-dependent bilayer ferromagnetism in $\text{Sr}_3\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2006, 73, .	1.1	19
98	Magnetic neutron scattering of thermally quenched K-Co-Fe Prussian blue analog photomagnet. <i>Physical Review B</i> , 2012, 86, .	1.1	19
99	Magnons and a two-component spin gap in FeVO_4	1.1	19
100	Using Monte Carlo ray tracing simulations to model the quantum harmonic oscillator modes observed in uranium nitride. <i>Physical Review B</i> , 2014, 89, .	1.1	18
101	Role of single-ion excitations in the mixed-spin quasi-one-dimensional quantum antiferromagnet $\text{Nd}_2\text{BaNiO}_5$. <i>Physical Review B</i> , 2000, 61, 11601-11612.	1.1	17
102	Magnetic excitation spectrum of the square lattice $S=1/2$ Heisenberg antiferromagnet $\text{K}_2\text{V}_3\text{O}_8$. <i>Physical Review B</i> , 2006, 74, .	1.1	17
103	Antiferromagnetic order in MnO spherical nanoparticles. <i>Physical Review B</i> , 2011, 83, .	1.1	17
104	Magnetism in BaCoS_2 . <i>Journal of Applied Physics</i> , 1997, 81, 4620-4622.	1.1	16
105	Zone-boundary excitations in coupled Haldane spin chain compounds $\text{PbNi}_2\text{V}_2\text{O}_8$ and $\text{SrNi}_2\text{V}_2\text{O}_8$. <i>Physical Review B</i> , 2001, 64, .	1.1	16
106	Quantum oscillations of nitrogen atoms in uranium nitride. <i>Nature Communications</i> , 2012, 3, 1124.	5.8	16
107	A complete strain-temperature phase diagram for BiFeO_3 films on SrTiO_3 and LaAlO_3 ($0 \leq x \leq 1$) substrates. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 034011.	1.3	16
108	Thermal and magnetoelastic properties of $\text{La}_2\text{Mg}_2\text{O}_7$ in the field-induced low-temperature states. <i>Physical Review B</i> , 2020, 102, .	1.4	16

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109	Coupled Nd and Ba^{2+} spin ordering in the double perovskites $\text{Nd}_2\text{NaBa}_2\text{O}_6$ ($\text{Ba}^{2+}=\text{Ru, Os}$). Physical Review B, 2013, 88, .	1.1	15
110	Role of the third dimension in searching for Majorana fermions in BaFe_2As_2 via phonons. Physical Review Research, 2022, 4, .	1.1	13
111	Spin dynamics of the quasi-one-dimensional ferromagnet $\text{CoCl}_2 \cdot 2\text{D}_2\text{O}$. Physical Review B, 2001, 64, .	1.1	13
112	Spin excitations in BaFe_2As_2 observed by inelastic neutron scattering. Physical Review B, 2009, 80, .	1.1	1.84
113	Dirac Magnons, Nodal Lines, and Nodal Plane in Elemental Gadolinium. Physical Review Letters, 2022, 128, 097201.	2.9	13
114	Low temperature magnetic measurements of NENP. Journal of Low Temperature Physics, 1992, 89, 547-550.	0.6	12
115	Transverse spin dynamics in CsCoCl_3 . Journal of Applied Physics, 1981, 52, 1971-1973.	1.1	10
116	Large enhancement of x-ray magnetic scattering at the L edges of the 5d transition metal antiferromagnet K_2ReCl_6 . Journal of Physics Condensed Matter, 2003, 15, L59-L66.	0.7	10
117	Magnetic short-range correlations and quantum critical scattering in the non-Fermi liquid regime of URu_2Si_2 . Physical Review B, 2008, 78, .	1.1	10
118	Extraction of interaction parameters for BaFe_2As_2 from neutron data using machine learning. Physical Review Research, 2022, 4, .	1.1	10
119	Low temperature x-ray study of UPd_3 . Solid State Communications, 1990, 74, 439-442.	0.9	9
120	Evidence for the confinement of magnetic monopoles in quantum spin ice. Journal of Physics Condensed Matter, 2017, 29, 45LT01.	0.7	9
121	Polarization kinetics of the charge density wave state of $\text{K}_0.3\text{MoO}_3$. Physical Review Letters, 1993, 70, 3095-3098.	2.9	8
122	Deformation of the charge-density wave by electric fields in $\text{K}_0.3\text{MoO}_3$. Physical Review B, 1993, 47, 1655-1658.	1.1	8
123	Spin-wave excitation in the antiferromagnetic bilayer perovskite $\text{Ca}_3\text{Ru}_2\text{O}_{10}$. Physical Review B, 2019, 100, 020407.	1.1	8
124	Anomalous magnetic behavior of BaCo_2O_7 with isolated CoO_4 tetrahedra. Physical Review B, 2019, 99, .	1.1	8
125	Magnetoelastic coupling anisotropy in the Kitaev material RuCl_3 . Physical Review B, 2022, 105, .	1.1	8
126	Spin waves and temperature-dependent behaviour of the quasi-two-dimensional antiferromagnet KFeF_4 . Journal of Physics Condensed Matter, 1994, 6, 6667-6678.	0.7	7

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145	Elastic neutron scattering in Quantum Critical Antiferromagnet. <i>Physica B: Condensed Matter</i> , 2008, 403, 1276-1278.	1.3	3
146	Magnetic Response of Mn(III)F(salen) at Low Temperatures. <i>Acta Physica Polonica A</i> , 2014, 126, 228-229.	0.2	2
147	Time-of-Flight Neutron Diffraction (TOF-ND) Analyses of the Composition and Minting of Ancient Judaeon "Biblical" Coins. <i>Journal of Analytical Methods in Chemistry</i> , 2019, 2019, 1-18.	0.7	2
148	Pulsed spallation neutron spectroscopy of low dimensional magnets: past, present, and future. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 374004.	0.7	2
149	Impact of further-range exchange and cubic anisotropy on magnetic excitations in the fcc kagome antiferromagnet IrMn ₃ . <i>Physical Review B</i> , 2021, 104, .	1.1	2
150	Spin waves in the spin-flop phase of RbMnF ₃ . <i>Journal of Physics Condensed Matter</i> , 1994, 6, 10341-10355.	0.7	1
151	Sans Study of Phase Separation in Solid ³ He- ⁴ He. <i>Materials Research Society Symposia Proceedings</i> , 1994, 376, 335.	0.1	1
152	Magnetic excitations in the spin ladder system (VO) ₂ P ₂ O ₇ . <i>Journal of Applied Physics</i> , 1997, 81, 3968-3970.	1.1	1
153	Design and simulation of the CG1 beamline at HFIR. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1495-s1497.	1.1	1
154	Field Dependent Phase Diagram of the Quantum Spin Chain (CH ₃) ₂ NH ₂ CuCl ₃ . <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
155	Possible observation of Kondo screening cloud in Yb ₁₄ MnSb ₁₁ . <i>Philosophical Magazine</i> , 2020, 100, 1204-1210.	0.7	1
156	Inelastic neutron scattering studies of magnetic excitations at the Oak Ridge National Laboratory. <i>Neutron News</i> , 1999, 10, 21-25.	0.1	0
157	Neutron diffraction in a model itinerant metal near a quantum critical point. <i>Journal of Physics: Conference Series</i> , 2009, 150, 042189.	0.3	0
158	Potassium tantalate substrates for neutron experiments on antiferromagnetic perovskite films. <i>Journal of Physics: Conference Series</i> , 2010, 251, 012021.	0.3	0