

Stephen Lovesey

List of Publications by Year in descending order

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242
papers

3,978
citations

159585

30
h-index

182427

51
g-index

250
all docs

250
docs citations

250
times ranked

1842
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamic properties of monatomic liquids. Reports on Progress in Physics, 1975, 38, 461-563.	20.1	408
2	Density fluctuations in classical monatomic liquids. Journal of Physics C: Solid State Physics, 1971, 4, 3057-3064.	1.5	126
3	Observation of Orbital Currents in CuO. Science, 2011, 332, 696-698.	12.6	108
4	Dynamic properties of Heisenberg paramagnets. Journal of Physics C: Solid State Physics, 1973, 6, 79-97.	1.5	97
5	Magnetic photon scattering. Journal of Physics C: Solid State Physics, 1987, 20, 5625-5639.	1.5	94
6	Spin correlations for a classical linear magnet with exchange and single-site anisotropy energies. Journal of Physics C: Solid State Physics, 1975, 8, 3841-3856.	1.5	87
7	The theory of elastic scattering of neutrons by magnetic salts. Reports on Progress in Physics, 1969, 32, 333-394.	20.1	82
8	Dynamic Properties of a One-Dimensional Heisenberg Magnet. Physical Review Letters, 1972, 28, 614-617.	7.8	80
9	Right Handed or Left Handed? Forbidden X-Ray Diffraction Reveals Chirality. Physical Review Letters, 2008, 100, 145502.	7.8	67
10	Neutron Compton scattering by proton and deuteron systems with entangled spatial and spin degrees of freedom. Physical Review A, 2000, 61, .	2.5	66
11	Spin-wave theory of impurity states in a Heisenberg antiferromagnet I. Positive impurity-host exchange coupling. Journal of Physics C: Solid State Physics, 1968, 1, 102-117.	1.5	60
12	Charge disproportionation and search for orbital ordering in NdNiO ₃ by use of resonant x-ray diffraction. Physical Review B, 2005, 72, .	3.2	58
13	Scattering by Entangled Spatial and Spin Degrees of Freedom. Physica Scripta, 2002, 65, 112-118.	2.5	53
14	Analysis of azimuthal-angle scans in resonant x-ray Bragg diffraction and parity even and odd atomic multipoles in the multiferroic modification of the terbium manganate TbMnO ₃ . Physical Review B, 2009, 79, .	3.2	51
15	The theory of neutron scattering from mixed harmonic solids. European Physical Journal B, 1983, 51, 109-126.	1.5	47
16	Single-particle motion in classical monatomic liquids. Journal of Physics C: Solid State Physics, 1973, 6, 1856-1862.	1.5	44
17	Photon scattering by magnetic solids. Reports on Progress in Physics, 1993, 56, 257-326.	20.1	44
18	Direct and quantitative determination of the orbital ordering in CeB ₆ by X-ray diffraction. Europhysics Letters, 2004, 68, 671-677.	2.0	41

#	ARTICLE	IF	CITATIONS
19	Neptunium octupole and hexadecapole motifs in NpO ₂ directly from electric dipole (E1) enhanced x-ray Bragg diffraction. Journal of Physics Condensed Matter, 2003, 15, 4511-4518.	1.8	40
20	Intermultiplet Transitions in Praseodymium Using Neutron Spectroscopy. Physical Review Letters, 1988, 61, 1309-1312.	7.8	39
21	Distribution of magnetization in mixed magnetic systems: I. Non-magnetic impurity. Proceedings of the Physical Society, 1966, 89, 613-623.	1.6	38
22	Quadrupole and hexadecapole ordering in DyB ₂ C ₂ : Direct observation with resonant x-ray diffraction. Physical Review B, 2004, 69, .	3.2	38
23	Short-wavelength collective density excitations in monatomic liquids. Journal of Physics C: Solid State Physics, 1977, 10, 3221-3234.	1.5	36
24	The magnetic motif and the wavefunction of Kramers ions in strontium iridate (Sr ₂ IrO ₄). Journal of Physics Condensed Matter, 2011, 23, 252201.	1.8	36
25	Experimental evidence of anapolar moments in the antiferromagnetic insulating phase of $V_2V_3O_{13}$ from x-ray resonant Bragg diffraction. Physical Review B, 2010, 81, .	3.2	35
26	Electric field control of chirality. Science Advances, 2022, 8, eabj8030.	10.3	35
27	Ferro-type order of magneto-electric quadrupoles as an order-parameter for the pseudo-gap phase of a cuprate superconductor. Journal of Physics Condensed Matter, 2015, 27, 292201.	1.8	33
28	Dynamic properties of one-dimensional Heisenberg magnets. Journal of Physics C: Solid State Physics, 1974, 7, 2008-2022.	1.5	32
29	Theory of the magnon and phonon interaction in FeF ₂ . Journal of Physics C: Solid State Physics, 1972, 5, 2769-2784.	1.5	31
30	X-ray birefringence and dichroism obtained from magnetic materials. Journal of Synchrotron Radiation, 2001, 8, 1065-1077.	2.4	31
31	Wavelength-dependent fluctuations in classical paramagnets in a magnetic field. I. Static properties. Journal of Physics C: Solid State Physics, 1976, 9, 3639-3658.	1.5	30
32	Parity- and time-odd atomic multipoles in magnetoelectric GaFeO ₃ as seen via soft x-ray Bragg diffraction. Physical Review B, 2009, 80, .	3.2	30
33	Theory of neutron scattering by electrons in magnetic materials. Physica Scripta, 2015, 90, 108011.	2.5	30
34	Comment on "Short-Wavelength Sound Modes in Liquid Argon". Physical Review Letters, 1984, 53, 401-401.	7.8	29
35	Theory of thermal neutron scattering from crystals containing ions with impaired f electrons. Journal of Physics C: Solid State Physics, 1970, 3, 1292-1302.	1.5	28
36	Dichroism and resonant diffraction in x-ray scattering by complex materials. Journal of Physics Condensed Matter, 2007, 19, 213201.	1.8	28

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37	Symmetry of reentrant tetragonal phase in BaMn_2Sb_2 . Magnetic versus orbital ordering mechanism. Physical Review B, 2014, 90, .	3.2	27
38	Determination of structural chirality of berlinite and quartz using resonant x-ray diffraction with circularly polarized x-rays. Physical Review B, 2010, 81, .	1.8	27
39	Determination of the absolute chirality of tellurium using resonant diffraction with circularly polarized x-rays. Journal of Physics Condensed Matter, 2010, 22, 122201.	1.5	26
40	Some aspects of the theory of the scattering of neutrons by magnetic ions. Journal of Physics C: Solid State Physics, 1969, 2, 470-475.	3.2	26
41	Vanadium magnetoelectric multipoles in V_2O_3 . Physical Review B, 2007, 75, .	1.8	26
42	Chirality, magnetic charge and other strange entities in resonant x-ray Bragg diffraction. Journal of Physics Condensed Matter, 2009, 21, 474214.	1.5	25
43	Neutron-electron spectroscopy of rare-earth ions. Journal of Physics C: Solid State Physics, 1986, 19, 4605-4611.	3.2	25
44	Critical and paramagnetic spin fluctuations in Heisenberg magnets. Physical Review B, 1989, 39, 2619-2631.	1.5	24
45	Neutron-photon studies of condensed matter. European Physical Journal B, 1983, 51, 99-107.	1.8	24
46	Diffraction and absorption of x-rays by 3d transition ions: the process. Journal of Physics Condensed Matter, 1998, 10, 2505-2513.	1.5	23
47	Dynamic effects in one-dimensional magnets with an easy plane. Journal of Physics C: Solid State Physics, 1975, 8, 3857-3871.	1.5	22
48	Magnetic excitations in FeCl_2 . Journal of Physics C: Solid State Physics, 1974, 7, 2049-2059.	1.5	22
49	Analytic domains of the one-dimensional tight-binding model: spin fluctuations in a modulated magnet and electrons in a magnetic field. Journal of Physics C: Solid State Physics, 1988, 21, 2805-2820.	1.8	22
50	Resonant x-ray Bragg diffraction from orbital moments in vanadium sesquioxide (V_2O_3) and haematite ($\alpha\text{-Fe}_2\text{O}_3$). Journal of Physics Condensed Matter, 2000, 12, L367-L372.	3.2	22
51	Calculated x-ray dichroic signals and resonant Bragg diffraction structure factors for DyB_2C_2 . Physical Review B, 2001, 64, .	0.1	22
52	Introduction to the Graphical Theory of Angular Momentum. Springer Tracts in Modern Physics, 2009, .	1.5	21
53	Density fluctuations in simple fluids. European Physical Journal B, 1985, 58, 79-82.	1.8	21
54	A theoretical framework for absorption (dichroism) and the resonance-enhanced scattering of x-rays by magnetic materials: I. Journal of Physics Condensed Matter, 1996, 8, 10983-11007.		

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55	Orbital magnetization of a Mott insulator, V ₂ O ₃ , revealed by resonant x-ray Bragg diffraction. <i>Physical Review B</i> , 2002, 65, .	3.2	21
56	Calculated chiral and magneto-electric dichroic signals for copper metaborate (CuB ₂ O ₄) in an applied magnetic field. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 142201.	1.8	21
57	Magnetolectric effects studied by resonant x-ray diffraction in ferrimagnetic GaFeO ₃ . <i>Physical Review B</i> , 2010, 82, .	3.2	21
58	Critical spin dynamics of EuO: comparison of theory and experiment. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, L253-L257.	1.5	20
59	Phase transitions, noncollinear magnetism, and magnetoelectric symmetry in gadolinium tetraboride. <i>Physical Review B</i> , 2004, 70, .	3.2	20
60	Polarization analysis in resonant x-ray Bragg diffraction by $K_{\alpha 2}$ the Cr K-edge. <i>Physical Review B</i> , 2008, 77, .	3.2	20
61	Resonant x-ray diffraction from chiral electric-polarization structures. <i>Physical Review B</i> , 2018, 98, .	3.2	20
62	Spin-wave theory of impurity states in a Heisenberg antiferromagnet II. Negative impurity-host exchange coupling. <i>Journal of Physics C: Solid State Physics</i> , 1968, 1, 118-124.	1.5	19
63	A theoretical framework for absorption (dichroism) and the resonance-enhanced scattering of x-rays by magnetic materials: III. Contributions from atomic spins. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 4237-4260.	1.8	18
64	X-ray diffraction by CeB ₆ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 4415-4423.	1.8	18
65	Magnetic symmetries in neutron and resonant x-ray Bragg diffraction patterns of four iridium oxides. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 496003.	1.8	18
66	Ordered state of magnetic charge in the pseudo-gap phase of a cuprate superconductor (HgBa ₂ CuO ₄). <i>Journal of Physics Condensed Matter</i> , 2015, 27, 495601.	1.8	18
67	Magnetoelastic model for the relaxation of lanthanide ions in YBa ₂ Cu ₃ O ₇ observed by neutron scattering. <i>Physical Review B</i> , 2000, 61, 9130-9139.	3.2	17
68	Strange magnetic multipoles and neutron diffraction by an iridate perovskite (Sr ₂ IrO ₄). <i>Journal of Physics Condensed Matter</i> , 2014, 26, 322201.	1.8	17
69	Electron excitation in atoms and molecules by neutron-nucleus scattering. <i>European Physical Journal B</i> , 1982, 47, 137-147.	1.5	16
70	Spin and orbital magnetisation densities determined by Compton scattering of photons. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 6439-6449.	1.8	16
71	Quantum correlations between protons in potassium bicarbonate. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 4937-4946.	1.8	16
72	High-order Dy multipole motifs observed in DyB ₂ C ₂ with resonant soft x-ray Bragg diffraction. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 11195-11202.	1.8	16

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73	Orbital Order at Mn and O Sites and Absence of Zener Polaron Formation in Manganites. Physical Review Letters, 2009, 103, 097205.	7.8	16
74	Quantum theory of natural circular, magneto-chiral and non-reciprocal linear dichroism. Physica Scripta, 2010, 81, 065703.	2.5	16
75	Melting of chiral order in terbium manganate ($TbMnO_3$) observed with resonant x-ray Bragg diffraction. Journal of Physics Condensed Matter, 2013, 25, 362202.	1.8	16
76	Critical spin dynamics of a Heisenberg ferromagnet. Journal of Physics C: Solid State Physics, 1987, 20, 3953-3968.	1.5	15
77	Paramagnetic spin fluctuations: a mode coupling interpretation of neutron scattering data for EuO, Pd ₂ MnSn and Fe. Journal of Physics Condensed Matter, 1990, 2, 3339-3347.	1.8	15
78	Time-dependent spin correlations in the Heisenberg magnet at infinite temperature. Journal of Physics Condensed Matter, 1994, 6, L521-L526.	1.8	15
79	Parity-odd multipoles, magnetic charges, and chirality in hematite \hat{I}_{\pm} -Fe O	3.2	15
80	Symmetry-protected hidden order and magnetic neutron Bragg diffraction by URu ₂ Si ₂ . Journal of Physics Condensed Matter, 2014, 26, 046003.	1.8	15
81	Direct Observation of Anapoles by Neutron Diffraction. Physical Review Letters, 2019, 122, 047203.	7.8	15
82	Inelastic coherent neutron scattering by small particles. Journal of Physics C: Solid State Physics, 1976, 9, 2843-2856.	1.5	14
83	Static and dynamic susceptibilities of ferromagnets calculated with spin-wave theory including dipolar forces. Journal of Physics Condensed Matter, 1991, 3, 1827-1840.	1.8	14
84	A theoretical framework for dichroism and the resonance-enhanced scattering of x-rays by magnetic materials: II. Quadrupolar absorption events. Journal of Physics Condensed Matter, 1996, 8, 11009-11022.	1.8	14
85	Resonant diffraction of circularly polarized x-rays by a chiral crystal (low quartz). Journal of Physics Condensed Matter, 2008, 20, 272201.	1.8	14
86	Acentric magnetic and optical properties of chalcopyrite (CuFeS ₂). Journal of Physics Condensed Matter, 2012, 24, 216001.	1.8	14
87	$S_{\pm}r^2$ I_{\pm} O_4 defy	14	
88	Dynamic Properties of a One-Dimensional Heisenberg Magnet.. Physical Review Letters, 1972, 28, 942-942.	7.8	13
89	The dynamic properties of liquid ³ He. Journal of Physics C: Solid State Physics, 1975, 8, 1649-1659.	1.5	13
90	Wavelength-dependent fluctuations in classical paramagnets in a magnetic field. II. Dynamical properties. Journal of Physics C: Solid State Physics, 1976, 9, 3659-3679.	1.5	13

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91	THEORY OF DYNAMIC RESPONSE FUNCTIONS OF PERIODICALLY MODULATED PHYSICAL SYSTEMS. International Journal of Modern Physics B, 1991, 05, 1313-1346.	2.0	13
92	A theory of the time-dependent properties of Heisenberg spin chains at infinite temperature. Journal of Physics Condensed Matter, 1994, 6, 1253-1260.	1.8	13
93	Ce multipoles in phase IV of Ce _{0.7} La _{0.3} B ₆ inferred from resonant x-ray Bragg diffraction. Physical Review B, 2007, 75, 114411.	3.2	13
94	Chiral properties of hematite Fe^{2+} O^{2-} inferred from resonant Bragg diffraction using neutron diffraction and the electronic properties of BaFe ₂ Se ₃ . Physica Scripta, 2016, 91, 015803.	3.2	13
95	Neutron Orbital Cross Section for a Tight-Binding Model of Paramagnetic Nickel. Physical Review B, 1971, 4, 3048-3054.	2.5	13
96	Wavelength-dependent fluctuations in classical paramagnets in a magnetic field. III. Propagating energy fluctuations and their coupling to the magnetisation autocorrelation function. Journal of Physics C: Solid State Physics, 1979, 12, 4015-4019.	3.2	12
97	Muon spin relaxation in ferromagnets. I. Spin-wave fluctuations. Journal of Physics Condensed Matter, 1992, 4, 2043-2060.	1.5	12
98	Reply to comment on "Calculated chiral and magneto-electric dichroic signals for copper metaborate (CuB ₂ O ₄) in an applied magnetic field". Journal of Physics Condensed Matter, 2009, 21, 498002.	1.8	12
99	Magnetic correlations in a layered iridate, Na ₂ IrO ₃ . Journal of Physics Condensed Matter, 2012, 24, 382201.	1.8	12
100	Determination of absolute chirality using resonant X-ray diffraction. European Physical Journal: Special Topics, 2012, 208, 67-74.	2.6	12
101	Magneto-electric operators in neutron scattering from electrons. Journal of Physics Condensed Matter, 2014, 26, 356001.	1.8	12
102	Diffraction from diluted antiferromagnets. Journal of Physics C: Solid State Physics, 1984, 17, L213-L215.	1.5	11
103	Analytic dynamics of the one-dimensional tight-binding model: II. Bloch electrons in a rational magnetic field. Journal of Physics C: Solid State Physics, 1988, 21, 4967-4978.	1.5	11
104	Muon spin relaxation in ferromagnets: theoretical results for paramagnetic EuO and EuS. Journal of Physics Condensed Matter, 1995, 7, 769-776.	1.8	11
105	A theoretical framework for absorption and resonance-enhanced scattering of x-rays by magnetic materials: IV. Journal of Physics Condensed Matter, 1997, 9, 7501-7505.	1.8	11
106	Orbital Dynamics of the 4f Shell in DyB ₂ C ₂ . Physical Review Letters, 2005, 94, 036408.	7.8	11
107	Polar and magnetoelectric multipoles in gallium ferrate inferred from optical and x-ray measurements. Journal of Physics Condensed Matter, 2007, 19, 376205.	1.8	11
108			

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109	Inelastic neutron cross section for a magnetic impurity in a Heisenberg ferromagnet. Proceedings of the Physical Society, 1967, 91, 658-670.	1.6	10
110	The elastic magnetic neutron cross-section for 3d transition compounds: Calculations for V ₂ O ₃ , FeF ₂ and FeCO ₃ . Journal of Physics C: Solid State Physics, 1973, 6, 3746-3762.	1.5	10
111	Muon spin relaxation in ferromagnets. II. Critical and paramagnetic magnetization fluctuations. Journal of Physics Condensed Matter, 1992, 4, 2061-2071.	1.8	10
112	Critical and paramagnetic spin dynamics in an antiferromagnetically coupled Heisenberg magnet: results for RbMnF ₃ . Journal of Physics Condensed Matter, 1994, 6, 7553-7564.	1.8	10
113	Inelastic magnetic scattering of circularly polarized x-rays. Journal of Physics Condensed Matter, 1996, 8, L353-L357.	1.8	10
114	Ferromagnetic-type order of atomic multipoles in the polar ferrimagnetic GaFeO ₃ . Physical Review B, 2012, 85, .	3.2	10
115	Lone octupole and bulk magnetism in osmate 5d ² double perovskites. Physical Review B, 2020, 102, .	3.2	10
116	Magnetic properties of RuO_2 and charge-magnetic interference in Bragg diffraction of circularly polarized x-rays. Physical Review B, 2022, 105, .	3.2	10
117	Distribution of magnetization in mixed magnetic systems: II. Antiferromagnetic coupling across a non-magnetic impurity and asymptotic model. Proceedings of the Physical Society, 1966, 89, 625-632.	1.6	9
118	Distribution of magnetization in mixed magnetic systems: III. Magnetic impurity. Proceedings of the Physical Society, 1966, 89, 893-907.	1.6	9
119	Theory of paramagnetic and critical spin fluctuations in simple magnets. Hyperfine Interactions, 1991, 64, 321-329.	0.5	9
120	Theory of magnetic photon scattering: total and compton cross-sections for circularly polarized hard X-rays. Physica Scripta, 1991, 44, 51-55.	2.5	9
121	Electric-dipole absorption and the scattering of x-rays: analytic results for a ion in an octahedral crystal field. Journal of Physics Condensed Matter, 1997, 9, 8679-8692.	1.8	9
122	A theory of magnetic x-ray diffraction enhanced by an electric quadrupole (E ₂) resonance. Journal of Physics Condensed Matter, 1998, 10, 501-524.	1.8	9
123	Magnetically scattered polarized neutrons: static and dynamic features of the sample. Journal of Physics Condensed Matter, 1998, 10, 6761-6769.	1.8	9
124	Dynamic correlations in a one-dimensional Heisenberg magnet in a magnetic field. Zeitschrift für Physik B Condensed Matter and Quanta, 1980, 37, 307-315.	1.9	8
125	Structural relaxation in supercooled liquids. Journal of Physics C: Solid State Physics, 1986, 19, L791-L794.	1.5	8
126	Theory of neutron scattering by atomic electrons: jj-coupling scheme. Journal of Physics Condensed Matter, 1991, 3, 7095-7115.	1.8	8

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127	Samarium: magnetic neutron spectroscopic intensities. Journal of Physics Condensed Matter, 1993, 5, 7269-7276.	1.8	8
128	Dynamical properties of critical and paramagnetic spin fluctuations in anisotropic Heisenberg magnets. Journal of Physics Condensed Matter, 1995, 7, 2147-2164.	1.8	8
129	Muon spin relaxation in antiferromagnets: a study of RbMnF ₃ based on the coupled mode theory of paramagnetic and critical spin fluctuations. Journal of Physics Condensed Matter, 1995, 7, 2615-2631.	1.8	8
130	Electronic multipoles in second harmonic generation and neutron scattering. Physical Review B, 2021, 103, .	3.2	8
131	Long wavelength density fluctuations in supercooled liquids. Zeitschrift für Physik B Condensed Matter and Quanta, 1979, 34, 323-326.	1.9	7
132	Spontaneous symmetry breaking in annealed and quenched gauge field models. Zeitschrift für Physik B Condensed Matter and Quanta, 1980, 40, 117-126.	1.9	7
133	Theory of muon spin relaxation by critical fluctuations in antiferromagnetic salts. Hyperfine Interactions, 1992, 72, 389-394.	0.5	7
134	Neutron diffraction by magnetic crystals: V ₂ O ₃ . Journal of Physics Condensed Matter, 2002, 14, 10281-10293.	1.8	7
135	Effects of dispersion and absorption in resonant Bragg diffraction of x-rays. Journal of Physics Condensed Matter, 2014, 26, 125504.	1.8	7
136	Direct observation of electron density reconstruction at the metal-insulator transition in NaOs ₃ O ₇ . Physical Review B, 2018, 98, .	3.2	7
137	Magnetic multipoles and correlation shortage in the pyrochlore cerium stannate Ce ₂ Sn ₂ O ₇ . Physical Review B, 2020, 101, .	3.2	7
138	Theory of the magnon and phonon interaction in FeF ₂ . II. Magnetic-field effects. Journal of Physics C: Solid State Physics, 1974, 7, 2039-2048.	1.5	6
139	Elementary excitations in easy-plane Heisenberg ferromagnets. Zeitschrift für Physik B Condensed Matter and Quanta, 1981, 42, 241-244.	1.9	6
140	Magnetic excitations in the Ising-Heisenberg chain at low temperatures. European Physical Journal B, 1982, 47, 327-334.	1.5	6
141	The scattering of polarized neutrons by a magnetic material. Physica B: Condensed Matter, 1999, 267-268, 221-226.	2.7	6
142	Direct Observation of an Incommensurate Multipolar Order in CeB ₆ Doped with Pr. Journal of the Physical Society of Japan, 2006, 75, 073702.	1.6	6
143	Triakontadipole and high-order dysprosium multipoles in the antiferromagnetic phase of DyB ₂ C ₂ . Journal of Physics Condensed Matter, 2011, 23, 266002.	1.8	6
144	Neptunium multipoles and resonant x-ray Bragg diffraction by neptunium dioxide (NpO ₂). Journal of Physics Condensed Matter, 2012, 24, 256009.	1.8	6

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145	Electronic and magnetic properties of orthorhombic iron selenide. Physical Review B, 2016, 93, .	3.2	6
146	Neutron scattering by Dirac multipoles. Journal of Physics Condensed Matter, 2017, 29, 215603.	1.8	6
147	Electronic and magnetic properties of multiferroic ScFeO ₃ available from diffraction experiments. Journal of Physics Condensed Matter, 2017, 29, 455604.	1.8	6
148	Dirac multipoles in diffraction by the layered room-temperature antiferromagnets BaMn_2P_2 and BaMn_2P	3.2	6
149	Chiral structures of electric polarization vectors quantified by X-ray resonant scattering. Nature Communications, 2022, 13, 1769.	12.8	6
150	Neutron scattering from a substitutional mass defect. European Physical Journal B, 1986, 62, 413-421.	1.5	5
151	A coupled-mode theory of heisenberg paramagnets. European Physical Journal B, 1986, 63, 437-445.	1.5	5
152	On the calculation of the dynamic structure factor from band structure models: application to iron. Journal of Physics C: Solid State Physics, 1987, 20, 3897-3910.	1.5	5
153	Analytic dynamics of the one-dimensional tight-binding model. III. Numerical studies. Journal of Physics Condensed Matter, 1989, 1, 6793-6806.	1.8	5
154	Magnetic Compton scattering " gathering momentum. Physica Scripta, 1991, T35, 103-106.	2.5	5
155	The Dichroic Signal in the Absorption of Circularly Polarized X-Rays by a Two-Iron Cluster (Ferredoxin). Physica Scripta, 1998, 57, 657-663.	2.5	5
156	Observation of field-induced magnetic and structural transitions in an antiferromagnet by means of synchrotron x-rays. Journal of Physics Condensed Matter, 2002, 14, L619-L623.	1.8	5
157	Determination of the absolute chirality of tellurium using resonant diffraction with circularly polarized x-rays. Journal of Physics Condensed Matter, 2012, 24, 159501.	1.8	5
158	Zeeman spectrum, magnetic neutron diffraction pattern, and Dirac multipoles for a multiferroic material CuB ₂ O ₄ . Physical Review B, 2016, 94, .	3.2	5
159	$\text{Cu}_3\text{P}_2\text{O}_{11}$ and $\text{Cu}_3\text{P}_2\text{O}_{11}$	3.2	5
160	Circular dichroism of second harmonic generation response. Physical Review B, 2019, 100, .	3.2	5
161	Dynamic Properties of a Nonsuperfluid Bose Liquid in the Random-Phase Approximation. Physical Review Letters, 1974, 33, 1356-1359.	7.8	4
162	Long-wavelength non-equilibrium properties of an incompressible viscous fluid in 2- μ dimensions. Journal of Physics C: Solid State Physics, 1977, 10, 1781-1792.	1.5	4

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163	Theory of neutron scattering from localised electronic excitations. Journal of Physics C: Solid State Physics, 1978, 11, 3971-3979.	1.5	4
164	Theory of neutron scattering from magnetised solid state plasmas. Zeitschrift für Physik B Condensed Matter and Quanta, 1979, 32, 189-194.	1.9	4
165	Neutron scattering of electrons in simple metals: a band structure calculation for sodium. Journal of Physics C: Solid State Physics, 1987, 20, 3887-3896.	1.5	4
166	Exact properties of the mixed mass modulated spring constant model. Journal of Physics Condensed Matter, 1989, 1, 2731-2736.	1.8	4
167	The giant magneto-volume effect in solid oxygen. Journal of Physics Condensed Matter, 2005, 17, L235-L239.	1.8	4
168	Quantum-Mechanical Correlations Between the Nuclear Spatial and Spin Degrees of Freedom in a Material as Revealed by Neutron Scattering. Physica Scripta, 2005, 71, CC14-CC18.	2.5	4
169	Diffraction by multipoles in a 5d2 rhenium double perovskite. Physical Review B, 2021, 103, .	3.2	4
170	Structural chirality of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mn. Physical Review B, 2021, 103, .	3.2	4
171	The ground-state sublattice magnetization in an antiferromagnet. Journal of Physics C: Solid State Physics, 1968, 1, 408-414.	1.5	3
172	Excitations in a spin-flop Heisenberg magnet. Zeitschrift für Physik B Condensed Matter and Quanta, 1981, 42, 307-315.	1.9	3
173	Polarisation analysis of neutron scattering from crystal field levels. European Physical Journal B, 1984, 57, 191-192.	1.5	3
174	Field dependent spin dynamics of antiferromagnetic Heisenberg chains. European Physical Journal B, 1984, 54, 195-199.	1.5	3
175	Magnetic neutron-electron scattering: use of the f-sum rule to assess the effect of electron correlations, lattice interaction and magnetic field. European Physical Journal B, 1986, 62, 207-213.	1.5	3
176	Linear spin dynamics of incommensurably modulated magnets. European Physical Journal B, 1987, 67, 525-530.	1.5	3
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