

# Robert Cubitt

## List of Publications by Citations

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202  
papers

5,346  
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40  
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223  
ext. papers

5,787  
ext. citations

5  
avg, IF

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#	Paper	IF	Citations
202	Direct observation of magnetic flux lattice melting and decomposition in the high-Tc superconductor Bi <sub>2</sub> .15Sr <sub>1.95</sub> CaCu <sub>2</sub> O <sub>8+x</sub> . <i>Nature</i> , <b>1993</b> , 365, 407-411	50.4	438
201	Evidence for flux-lattice melting and a dimensional crossover in single-crystal Bi <sub>2</sub> .15Sr <sub>1.85</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> from muon spin rotation studies. <i>Physical Review Letters</i> , <b>1993</b> , 71, 3862-3865	7.4	231
200	D17: the new reflectometer at the ILL. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, s329-s331	3.1	188
199	FIGARO: The new horizontal neutron reflectometer at the ILL. <i>European Physical Journal Plus</i> , <b>2011</b> , 126, 1	3.1	170
198	Observation of a square flux-line lattice in the unconventional superconductor Sr <sub>2</sub> RuO <sub>4</sub> . <i>Nature</i> , <b>1998</b> , 396, 242-245	50.4	151
197	Interfacial Instability Driven by Dispersive Forces: The Early Stages of Spinodal Dewetting of a Thin Polymer Film on a Polymer Substrate. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5173-5176	7.4	145
196	A Bragg glass phase in the vortex lattice of a type II superconductor. <i>Nature</i> , <b>2001</b> , 413, 404-6	50.4	135
195	The Denaturation of Lysozyme Layers Adsorbed at the Hydrophobic Solid/Liquid Surface Studied by Neutron Reflection. <i>Journal of Colloid and Interface Science</i> , <b>1998</b> , 206, 212-223	9.3	133
194	Nonlocal Effects and Vortex Lattice Transitions in YNi <sub>2</sub> B <sub>2</sub> C. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1517-1520	7.4	106
193	Direct evidence for an intrinsic square vortex lattice in the overdoped high- T(c) superconductor La(1.83)Sr(0.17)CuO(4+δ). <i>Physical Review Letters</i> , <b>2002</b> , 88, 217003	7.4	98
192	Effects of two-band superconductivity on the flux-line lattice in magnesium diboride. <i>Physical Review Letters</i> , <b>2003</b> , 91, 047002	7.4	80
191	Small-angle neutron scattering study of flux line lattices in twinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review Letters</i> , <b>1993</b> , 70, 857-860	7.4	78
190	Muon-spin-rotation studies of the temperature dependence of the magnetic penetration depth in the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> family and related compounds. <i>Physical Review B</i> , <b>1995</b> , 52, 541-552	3.3	75
189	The small-angle neutron scattering instrument D33 at the Institut Laue-Langevin. <i>Journal of Applied Crystallography</i> , <b>2016</b> , 49, 1-14	3.8	74
188	Phase Separation and Molecular Intermixing in Polymer-Fullerene Bulk Heterojunction Thin Films. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 683-8	6.4	65
187	Lithiation of Crystalline Silicon As Analyzed by Operando Neutron Reflectivity. <i>ACS Nano</i> , <b>2016</b> , 10, 7458-7467	16.7	63
186	Realignment of the flux-line lattice by a change in the symmetry of superconductivity in UPt <sub>3</sub> . <i>Nature</i> , <b>2000</b> , 406, 160-4	50.4	61

185	Reconstruction from small-angle neutron scattering measurements of the real space magnetic field distribution in the mixed state of Sr <sub>2</sub> RuO <sub>4</sub> . <i>Physical Review Letters</i> , <b>2000</b> , 84, 6094-7	7.4	61
184	Equilibrium Skyrmion Lattice Ground State in a Polar Easy-plane Magnet. <i>Scientific Reports</i> , <b>2017</b> , 7, 7584	4.9	60
183	Thickness dependence of the total magnetic moment per atom in the Cu/Ni/Cu/Si(001) system. <i>Physical Review B</i> , <b>1997</b> , 55, 11422-11431	3.3	54
182	Water penetration mechanisms in nuclear glasses by X-ray and neutron reflectometry. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 2221-2230	3.9	52
181	Cyclic Switching of Water Storage in Thin Block Copolymer Films Containing Poly(N-isopropylacrylamide). <i>Macromolecules</i> , <b>2009</b> , 42, 9041-9051	5.5	51
180	Dewetting of thin polymer-blend films examined with GISAS. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 283, 53-59	2.8	51
179	Probing the in-plane composition of thin polymer films with grazing-incidence small-angle neutron scattering and atomic force microscopy. <i>Colloid and Polymer Science</i> , <b>1999</b> , 277, 1193-1199	2.4	50
178	Evidence for two-dimensional thermal fluctuations of the vortex structure in Bi <sub>2</sub> .15Sr <sub>1.85</sub> CaCu <sub>2</sub> O <sub>8</sub> + delta from muon spin rotation experiments. <i>Physical Review Letters</i> , <b>1995</b> , 75, 922-925	7.4	50
177	Gap in KFe <sub>2</sub> As <sub>2</sub> studied by small-angle neutron scattering observations of the magnetic vortex lattice. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	48
176	Swelling and switching kinetics of gold coated end-capped poly(N-isopropylacrylamide) thin films. <i>Macromolecules</i> , <b>2010</b> , 43, 2444-2452	5.5	48
175	Disordered skyrmion phase stabilized by magnetic frustration in a chiral magnet. <i>Science Advances</i> , <b>2018</b> , 4, eaar7043	14.3	48
174	Neutron whispering gallery. <i>Nature Physics</i> , <b>2010</b> , 6, 114-117	16.2	47
173	Nanostructured Diblock Copolymer Films: A Grazing Incidence Small-Angle Neutron Scattering Study <i>Langmuir</i> , <b>2003</b> , 19, 7778-7782	4	47
172	Flux-Line Lattice Structures in Untwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> <i>Physical Review Letters</i> , <b>1999</b> , 82, 2792-2795	7.4	47
171	Surface versus confinement induced morphology transition in triblock copolymer films: a grazing incidence small angle neutron scattering investigation. <i>Langmuir</i> , <b>2006</b> , 22, 9295-303	4	46
170	Interfacial structure in semiconducting polymer devices. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2814-2818		46
169	Intrinsic behavior of flux lines in pure niobium near the upper critical field. <i>Physical Review Letters</i> , <b>2002</b> , 88, 167003	7.4	45
168	Anisotropic vortex lattice in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review Letters</i> , <b>1993</b> , 71, 3019-3022	7.4	45

167	Recent upgrades of the neutron reflectometer D17 at ILL. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 249-256	3.8	44
166	Swelling of Phospholipid Floating Bilayers: The Effect of Chain Length. <i>Langmuir</i> , <b>2003</b> , 19, 7695-7702	4	44
165	Spontaneous symmetry-breaking vortex lattice transitions in pure niobium. <i>Physical Review Letters</i> , <b>2006</b> , 96, 167002	7.4	43
164	Stabilization of Thin Polymeric Bilayer Films on Top of Semiconductor Surfaces. <i>Langmuir</i> , <b>2003</b> , 19, 8511-8520	4.8520	43
163	Flux-line lattice distortion in PrOs <sub>4</sub> Sb <sub>12</sub> . <i>Physical Review Letters</i> , <b>2004</b> , 93, 187005	7.4	40
162	Adsorption of the Lamellar Phase of Aerosol-OT at the Solid/Liquid and Air/Liquid Interfaces. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 10800-10806	3.4	40
161	Topological Magnetic Phase in the Candidate Weyl Semimetal CeAlGe. <i>Physical Review Letters</i> , <b>2020</b> , 124, 017202	7.4	38
160	Lateral structures of buried interfaces in ABA-type triblock copolymer films. <i>Langmuir</i> , <b>2008</b> , 24, 7639-44	4	38
159	Structure of surfactant and phospholipid monolayers at the air/water interface modeled from neutron reflectivity data. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 531, 98-108	9.3	37
158	Role of electromagnetic coupling in the low-field phase diagram of Bi <sub>2</sub> . <sub>15</sub> Sr <sub>1.85</sub> CuCu <sub>2</sub> O <sub>8</sub> + $\delta$ . <i>Physical Review B</i> , <b>1997</b> , 55, 5666-5669	3.3	36
157	Experimental evidence for anisotropic double-gap behavior in MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2003</b> , 90, 157002	7.4	36
156	Dynamic in situ electrochemical neutron reflectivity measurements. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 15362-3	16.4	35
155	Switching kinetics of thin thermo-responsive hydrogel films of poly(monomethoxy-diethyleneglycol-acrylate) probed with in situ neutron reflectivity. <i>Soft Matter</i> , <b>2012</b> , 8, 5241	3.6	32
154	Structure Formation in Two-Dimensionally Confined Diblock Copolymer Films. <i>Langmuir</i> , <b>2001</b> , 17, 5567-5575	4.575	32
153	Water Storage in Thin Films Maintaining the Total Film Thickness as Probed with in situ Neutron Reflectivity. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 114-9	4.8	31
152	An improved algorithm for reducing reflectometry data involving divergent beams or non-flat samples. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 2006-2011	3.8	29
151	Structure and Thermal Response of Thin Thermo-responsive Polystyrene-block-poly(methoxydiethylene glycol acrylate)-block-polystyrene Films. <i>Macromolecules</i> , <b>2013</b> , 46, 4069-4080	5.5	29
150	Observation of a re-emergence of the flux lattice in BSCCO. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1571-1572	4	29

149	Multiple low-temperature skyrmionic states in a bulk chiral magnet. <i>Npj Quantum Materials</i> , <b>2019</b> , 4,	5	28
148	Lateral structure of a surfactant layer adsorbed at a hydrophilic solid/liquid interface. <i>Europhysics Letters</i> , <b>2004</b> , 67, 962-968	1.6	28
147	Small Angle Neutron Scattering and Magnetization Measurements in the Cubic (K,Ba)BiO <sub>3</sub> Superconductor. <i>Physical Review Letters</i> , <b>1999</b> , 82, 4930-4933	7.4	28
146	Use of neutron reflectivity to measure the dynamics of solvation and structural changes in polyvinylferrocene films during electrochemically controlled redox cycling. <i>Langmuir</i> , <b>2009</b> , 25, 4093-103 <sup>4</sup>		27
145	Application of Diamond Nanoparticles in Low-Energy Neutron Physics. <i>Materials</i> , <b>2010</b> , 3, 1768-1781	3.5	26
144	Dynamic Neutron Reflectivity Measurements during Redox Switching of Nickel Hydroxide Films. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 1-4	3.4	26
143	Influence of Hydrophobic Polystyrene Blocks on the Rehydration of Polystyrene-block-poly(methoxy diethylene glycol acrylate)-block-polystyrene Films Investigated by in Situ Neutron Reflectivity. <i>Macromolecules</i> , <b>2016</b> , 49, 317-326	5.5	25
142	Towards generalized data reduction on a chopper-based time-of-flight neutron reflectometer. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 606-615	3.8	24
141	Structure and degeneracy of vortex lattice domains in pure superconducting niobium: A small-angle neutron scattering study. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	24
140	A neutron study of the flux lattice in the superconductor CeRu <sub>2</sub> . <i>Physica B: Condensed Matter</i> , <b>1996</b> , 223-224, 169-171	2.8	24
139	A BR determination of the penetration depth in superconducting YNi <sub>2</sub> B <sub>2</sub> C. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 233, 273-280	1.3	24
138	Quasi-specular reflection of cold neutrons from nano-dispersed media at above-critical angles. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 622, 182-185	1.2	23
137	Interaction of cationic lipid vesicles with model cell membranes--as determined by neutron reflectivity. <i>Langmuir</i> , <b>2005</b> , 21, 7912-20	4	23
136	Refraction as a means of encoding wavelength for neutron reflectometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 558, 547-550	1.2	23
135	Grazing incidence small-angle neutron scattering--an advanced scattering technique for the investigation of nanostructured polymer films. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 350, 207-210	2.8	23
134	Structure and dynamics of phospholipid bilayer films under electrochemical control. <i>Faraday Discussions</i> , <b>2010</b> , 145, 357-379	3.6	22
133	Effect of chain architecture on the swelling and thermal response of star-shaped thermo-responsive (poly(methoxy diethylene glycol acrylate)-block-polystyrene) block copolymer films. <i>Soft Matter</i> , <b>2018</b> , 14, 6582-6594	3.6	21
132	The <sup>3</sup> He polarizing filter on the neutron reflectometer D17. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 1134-1137	2.8	21

131	Neutron diffraction by the flux lattice in high-Tc superconductors. <i>Physica B: Condensed Matter</i> , <b>1992</b> , 180-181, 377-379	2.8	21
130	Rehydration of Thermoresponsive Poly(monomethoxydiethylene glycol acrylate) Films Probed in Situ by Real-Time Neutron Reflectivity. <i>Macromolecules</i> , <b>2015</b> , 48, 3604-3612	5.5	20
129	Increased lifetime of metastable skyrmions by controlled doping. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	20
128	Square vortex lattice at anomalously low magnetic fields in electron-doped Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> . <i>Physical Review Letters</i> , <b>2004</b> , 93, 217001	7.4	20
127	Temperature and field dependence of the flux-line-lattice symmetry in V3Si. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	20
126	Interaction of cationic lipid/DNA complexes with model membranes as determined by neutron reflectivity. <i>Langmuir</i> , <b>2009</b> , 25, 4181-9	4	19
125	Uncovering flux line correlations in superconductors by reverse monte carlo refinement of neutron scattering data. <i>Physical Review Letters</i> , <b>2008</b> , 100, 107001	7.4	19
124	Unconventional angular dependence of the microscopic magnetic field distribution in single crystal Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> from muon-spin rotation studies. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 213, 126-132	1.3	19
123	Hydration and Dehydration Kinetics: Comparison between Poly( N-isopropyl methacrylamide) and Poly(methoxy diethylene glycol acrylate) Films. <i>Langmuir</i> , <b>2019</b> , 35, 7691-7702	4	18
122	Cancellation of gravity for slow neutrons in small angle scattering experiments. <i>Neutron News</i> , <b>1998</b> , 9, 25-31	0.4	18
121	In Operando Small-Angle Neutron Scattering Study of Single-Ion Copolymer Electrolyte for Li-Metal Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1-6	20.1	18
120	Direct evidence for cycloidal modulations in the thermal-fluctuation-stabilized spin spiral and skyrmion states of GaV <sub>4</sub> S <sub>8</sub> . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	17
119	Cholesterol induced suppression of large swelling of water layer in phosphocholine floating bilayers. <i>Langmuir</i> , <b>2005</b> , 21, 8703-10	4	17
118	Interfacial Structure in Conjugated Polymers: Characterization and Control of the Interface between Poly(9,9-dioctylfluorene) and Poly(9,9-dioctylfluorene-alt-benzothiadiazole). <i>Macromolecules</i> , <b>2006</b> , 39, 6699-6707	5.5	17
117	Measurement of vortex motion in a type-II superconductor: A novel use of the neutron spin-echo technique. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3488-91	7.4	17
116	Neutron reflectometry by refractive encoding. <i>European Physical Journal Plus</i> , <b>2011</b> , 126, 1	3.1	16
115	Interface-induced morphology transition in triblock copolymer films swollen with low-molecular-weight homopolymer. <i>Langmuir</i> , <b>2009</b> , 25, 4235-42	4	16
114	Fast swelling kinetics of thin polystyrene films. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 703-705	2.8	16

113	A neutron reflectometry study of the interface between poly(9,9-dioctylfluorene) and poly(methyl methacrylate). <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4949-4951	3.4	16
112	Flux Lattice Melting and Dimensional Crossover in Bi-2212 Single Crystals. <i>Journal De Physique, I</i> , <b>1996</b> , 6, 2327-2354		16
111	Metamagnetic texture in a polar antiferromagnet. <i>Nature Physics</i> , <b>2019</b> , 15, 671-677	16.2	15
110	Measuring the formation energy barrier of skyrmions in zinc-substituted Cu <sub>2</sub> OSeO <sub>3</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	15
109	The whispering gallery effect in neutron scattering. <i>New Journal of Physics</i> , <b>2010</b> , 12, 113050	2.9	15
108	Magnetic-field-induced nonlocal effects on the vortex interactions in twin-free YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	15
107	Measuring the penetration depth anisotropy in MgB <sub>2</sub> using small-angle neutron scattering. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	15
106	Using small-angle neutron scattering to probe the local magnetic structure of perpendicular magnetic recording media. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08E707	2.5	15
105	Vacuum induced dehydration of swollen poly(methoxy diethylene glycol acrylate) and polystyrene-block-poly(methoxy diethylene glycol acrylate)-block-polystyrene films probed by in-situ neutron reflectivity. <i>Polymer</i> , <b>2017</b> , 124, 263-273	3.9	14
104	Evaluating the influence of deposition conditions on solvation of reactive conducting polymers with neutron reflectivity. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14335-43	3.4	14
103	Smectic order induced at homeotropically aligned nematic surfaces: a neutron reflection study. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 234910	3.9	14
102	Transverse-field components of the flux-line lattice in the anisotropic superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	14
101	Oriented 3D Magnetic Biskyrmions in MnNiGa Bulk Crystals. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900264	24	13
100	Hydration behavior of casein micelles in thin film geometry: a GISANS study?. <i>Langmuir</i> , <b>2009</b> , 25, 4124-31		13
99	Characterization of Nanoparticles Based on Block Copolymer Micelles. <i>Langmuir</i> , <b>2001</b> , 17, 6699-6704	4	13
98	Observation of vortex lattice melting in twinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> using neutron small-angle scattering. <i>Physical Review B</i> , <b>1998</b> , 57, 14511-14517	3.3	13
97	Macroscopic manifestation of domain-wall magnetism and magnetoelectric effect in a Néel-type skyrmion host. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	13
96	Magnetic Field Control of Cycloidal Domains and Electric Polarization in Multiferroic BiFeO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 120, 147203	7.4	12



95	In-situ neutron reflectometry probing competitive swelling and de-swelling of thin polystyrene films. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2007</b> , 1, R68-R70	2.5	12
94	Small-angle neutron scattering measurements of the vortex lattice in CaC6. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	11
93	Phase separation of weakly incompatible polymer blends confined in isolated droplets. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, s342-s344	2.6	11
92	The effects of long-ranged and short-ranged forces in confined near-critical polymeric liquids. <i>Europhysics Letters</i> , <b>2005</b> , 71, 763-769	1.6	11
91	Approaching criticality in polymer-polymer systems. <i>Physical Review E</i> , <b>2005</b> , 72, 031807	2.4	11
90	A Neutron Reflectivity Study of [Os ( bipy ) 2 ( PVP ) 10Cl] + Polymer Film Modified Electrodes: Effect of pH and Counterion. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 1454-1461	3.9	11
89	Neutron diffraction from the flux line lattice. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 247-252	1.3	11
88	Thermoresponsive Diblock Copolymer Films with a Linear Shrinkage Behavior and Its Potential Application in Temperature Sensors. <i>Langmuir</i> , <b>2020</b> , 36, 742-753	4	11
87	Metastable skyrmion lattices governed by magnetic disorder and anisotropy in Mn-type chiral magnets. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	11
86	In situ neutron reflectometry study of the near-surface solvent concentration profile during solution casting. <i>Soft Matter</i> , <b>2011</b> , 7, 6648	3.6	10
85	Finite gap behaviour in the superconductivity of the infinite layer doped high-Tc superconductor Sr0.9La0.1CuO2. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 104237	1.8	10
84	Surface structure inhibited lithiation of crystalline silicon probed with operando neutron reflectivity. <i>Energy Storage Materials</i> , <b>2019</b> , 18, 182-189	19.4	10
83	Spin textures induced by quenched disorder in a reentrant spin glass: Vortices versus frustrated skyrmions. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	9
82	Absence of vortex lattice melting in a high-purity Nb superconductor. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	9
81	Micromagnetic simulation of small-angle neutron scattering from magnetic recording media. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08G912	2.5	9
80	Vortex lattice reorientation and anisotropy in MgB2 Effects of two-band superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 404, 135-139	1.3	9
79	Small angle neutron scattering and vortex lattice dynamical phase diagram. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 999-1002	1.3	9
78	Fluxoids and neutron polarisation effects. <i>Physica B: Condensed Matter</i> , <b>1999</b> , 267-268, 115-121	2.8	9



77	A neutron reflectivity study of [Os(bipy) <sub>2</sub> (PVP) <sub>10</sub> Cl] <sup>+</sup> polymer film modified electrodes: effect of redox state and counter ion. <i>Electrochimica Acta</i> , <b>1999</b> , 44, 3533-3548	6.7	9
76	A study of [Os(bipy) <sub>2</sub> (PVP) <sub>3.3</sub> (PS) <sub>6.7</sub> Cl] <sup>+</sup> polymer film modified electrodes using neutron reflectivity. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 843-853	3.6	9
75	Observation of the complete rupture of a buried polymer layer by off-specular neutron reflectometry. <i>Europhysics Letters</i> , <b>2009</b> , 86, 36005	1.6	8
74	Methods of observation of the centrifugal quantum states of neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 611, 322-325	1.2	8
73	Adsorption from alkane+perfluoroalkane mixtures at fluorophobic and fluorophilic surfaces. II. Crossover from critical adsorption to complete wetting. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 9058-65	3.9	8
72	PMMA-b-PNIPAM Thin Films Display Cononsolvency-Driven Response in Mixed Water/Methanol Vapors. <i>Macromolecules</i> , <b>2021</b> , 54, 3517-3530	5.5	8
71	RAINBOWS: refractive analysis of the incoming neutron beam over the white spectrum. A new fast neutron reflectometry technique exploiting a focusing prism. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 257-263	3.8	7
70	Alkoxysilane layers compatible with copper deposition for advanced semiconductor device applications. <i>Langmuir</i> , <b>2010</b> , 26, 8981-7	4	7
69	Metal chelation and spatial profiling of components in crown ether functionalised conducting copolymer films. <i>Electrochimica Acta</i> , <b>2009</b> , 55, 439-450	6.7	7
68	Polarized Neutron Reflectivity Investigation of Periodic Magnetic Rings. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2731-2733	2	7
67	Small-angle neutron scattering (SANS) studies of the vortex lattice in type II superconductors. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 176-179	2.8	7
66	Neutron Reflection: <b>2002</b> , 1198-1208		7
65	Adsorption from alkane+perfluoroalkane mixtures at fluorophobic and fluorophilic surfaces. I. Nature of the noncritical adsorption profiles. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 11917-11925	3.9	7
64	Observations of Suppression of Static and Dynamic Disorder in Bi <sub>2</sub> .15Sr <sub>1.85</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ Crystals by Columnar Defects. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5209-5212	7.4	7
63	Observation of flux lattice melting in YBCO by small angle neutron scattering. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1569-1570		7
62	Measurement of molecular mixing at a conjugated polymer interface by specular and off-specular neutron scattering. <i>Soft Matter</i> , <b>2015</b> , 11, 9393-403	3.6	6
61	Alkoxysilane layers compatible with Cu deposition: Towards new diffusion barriers?. <i>Microelectronic Engineering</i> , <b>2012</b> , 92, 45-48	2.5	6
60	Countering the effects of gravity on a small angle neutron scattering instrument. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 665, 7-10	1.2	6

59	Investigation of vortex structures in a current-carrying Nb wire. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 034014	3.1	6
58	Determining compositional profiles within conducting polymer films following reaction with vapor phase reagents. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4043-53	3.4	6
57	Neutron reflectivity studies of adsorption and wetting in the vicinity of a liquid/liquid critical point: alkane + perfluoroalkane mixtures at a silicon interface. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 8173-8188	1.8	6
56	Unveiling the vortex glass phase in the surface and volume of a type-II superconductor. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	6
55	Impact of Thermal History on the Kinetic Response of Thermoresponsive Poly(diethylene glycol monomethyl ether methacrylate)-poly(poly(ethylene glycol)methyl ether methacrylate) Thin Films Investigated by In Situ Neutron Reflectivity. <i>Langmuir</i> , <b>2020</b> , 36, 6228-6237	4	5
54	Development of magnetism in the solid solution of Ce <sub>1-x</sub> Pr <sub>x</sub> AlGe: From magnetic topology to spin glass. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
53	Comment on "Vortex dynamics and melting in niobium". <i>Physical Review Letters</i> , <b>1995</b> , 74, 1697	7.4	5
52	Anisotropy-induced depinning in the Zn-substituted skyrmion host Cu <sub>2</sub> OSeO <sub>3</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
51	The effect of gravity on the Debye-Scherrer ring in small-angle neutron scattering. <i>Journal of Applied Crystallography</i> , <b>2012</b> , 45, 124-126	3.8	4
50	Neutron diffraction by the flux line lattice in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> single. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 2089-2090	1.3	4
49	Study of solvent penetration inside a porous low k material by neutron reflectometry Influence of material surface modifications and of solvent properties. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 2089-2093	2.5	4
48	Small-angle scattering from the vortex lattice in high-T <sub>c</sub> and other superconductors. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 276-278, 752-755	2.8	4
47	A neutron reflection study of surface enrichment in nematic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14784-94	3.6	3
46	NR studies of the vortex lattice in high-T <sub>c</sub> and other superconductors <b>1997</b> , 105, 61-69		3
45	Neutron Diffraction by the Flux Line Lattice in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Single Crystals. <i>Journal of Applied Crystallography</i> , <b>1997</b> , 30, 571-574	3.8	3
44	Neutron scattering investigations of the Abrikosov state of high-temperature superconductors. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 35-37	2.8	3
43	Penetration depth anisotropy in MgB <sub>2</sub> single crystals and powders. <i>Journal of Physics and Chemistry of Solids</i> , <b>2006</b> , 67, 493-496	3.9	3
42	SANS study of three-layer micellar particles. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, s405-s407	2.6	3

41	Surface structure analysis of thin dewetted polymer blend films. <i>Macromolecular Symposia</i> , <b>2000</b> , 149, 283-288	0.8	3
40	Neutron Scattering from the Flux Line Lattice in the Cubic (K, Ba)BiO <sub>3</sub> Superconductor. <i>Journal of Low Temperature Physics</i> , <b>1999</b> , 117, 1353-1357	1.3	3
39	Neutron measurements of the vortex lattice in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> (invited). <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 5855-5859	2.5	3
38	NR investigation of the superconducting properties of YNi <sub>2</sub> B <sub>2</sub> C. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 2535-2536	1.3	3
37	Observation of the Flux-Line Lattice by Neutron Diffraction and Muon-Spin Rotation <b>1995</b> , 413-418		3
36	In situ control of the helical and skyrmion phases in Cu <sub>2</sub> OSeO <sub>3</sub> using high-pressure helium gas up to 5 kbar. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
35	Rotation of the magnetic vortex lattice in Ru <sub>7</sub> B <sub>3</sub> driven by the effects of broken time-reversal and inversion symmetry. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
34	Magnetism and superconductivity in ErNi <sub>2</sub> B <sub>2</sub> C <b>2002</b> , 58, 907-911		2
33	Structure analysis of adsorbed star-like polymers with GISAS and SFM. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, s433-s435	2.6	2
32	Small angle neutron scattering investigation of the magnetic history dependence of the vortex structure in the cubic (K,Ba)BiO <sub>3</sub> superconductor. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 377, 165-170	1.3	2
31	SANS Study of Coated Block Copolymer Micelles. <i>Macromolecular Chemistry and Physics</i> , <b>2005</b> , 206, 1206-1215	2.1	2
30	Neutron diffraction from the flux line lattice near the entanglement transition in (K, Ba)BiO <sub>3</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 2131-2132	1.3	2
29	Vortex lattice structures and pairing symmetry in Sr <sub>2</sub> RuO <sub>4</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1643-1646	1.3	2
28	Small-angle neutron scattering study of the flux-line lattice in a single crystal of Bi <sub>2</sub> .15Sr <sub>1.95</sub> CaCu <sub>2</sub> O <sub>8+x</sub> (invited). <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 6784-6787	2.5	2
27	Small angle neutron diffraction studies of vortex structures in high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 2583-2584	1.3	2
26	Anomalous neutron scattering from the flux-line lattice in K <sub>0.4</sub> Ba <sub>0.6</sub> BiO <sub>3</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 1837-1838	1.3	2
25	The flux-line lattice in high-temperature superconductors. <i>Physica B: Condensed Matter</i> , <b>1993</b> , 192, 70-78	2.8	2
24	Position-dependent stability and lifetime of the skyrmion state in nickel-substituted Cu <sub>2</sub> OSeO <sub>3</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2

23	Magnetic Guinier law. <i>IUCrJ</i> , <b>2020</b> , 7, 136-142	4.7	2
22	Hydration and Thermal Response Kinetics of a Cross-Linked Thermoresponsive Copolymer Film on a Hydrophobic PAN Substrate Coating Probed by Neutron Reflectivity. <i>Langmuir</i> , <b>2021</b> , 37, 6819-6829	4	2
21	Solvation Behavior of Poly(sulfobetaine)-Based Diblock Copolymer Thin Films in Mixed Water/Methanol Vapors. <i>Macromolecules</i> , <b>2021</b> , 54, 7147-7159	5.5	2
20	Hydrogen accumulation as the origin of delamination at the a-carbon/SiO <sub>2</sub> interface. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 215302	2.5	1
19	D50, an innovative ILL prototype for a white beam neutron reflectometer. <i>Neutron News</i> , <b>2015</b> , 26, 27-27.4	2.4	1
18	A Note on Observation and Theoretical Description of the Neutron Whispering Gallery Effect. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 340, 012020	0.3	1
17	Distribution of lattice constants in CePt <sub>3</sub> Si observed by Larmor diffraction and SANS. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 012165	0.3	1
16	Vortex studies in heavy-ion irradiated Bi <sub>2</sub> .15Sr <sub>1.85</sub> CaCu <sub>2</sub> O <sub>8+y</sub> probed by BR and small-angle neutron scattering. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 289-290, 355-359	2.8	1
15	In-Situ Surface-Roughness Measurements during the Preparation of Chemically Etched Porous Silicon. <i>Journal of Porous Materials</i> , <b>2000</b> , 7, 47-49	2.4	1
14	A low field study of the flux line lattice in CeRu <sub>2</sub> . <i>Physica B: Condensed Matter</i> , <b>1999</b> , 259-261, 696-698	2.8	1
13	Neutron scattering from the flux-line lattice in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> . <i>Physica B: Condensed Matter</i> , <b>1995</b> , 213-214, 107-109	2.8	1
12	Observation of magnetic flux line structures in superconductors by small-angle neutron diffraction. <i>Physica Scripta</i> , <b>1993</b> , T49A, 143-147	2.6	1
11	Current-induced self-organisation of mixed superconducting states. <i>Superconductor Science and Technology</i> , <b>2022</b> , 35, 035003	3.1	0
10	Field-induced vortex-like textures as a probe of the critical line in reentrant spin glasses. <i>Scientific Reports</i> , <b>2021</b> , 11, 20753	4.9	0
9	Abnormal fast dehydration and rehydration of light- and thermo-dual-responsive copolymer films triggered by UV radiation. <i>Soft Matter</i> , <b>2021</b> , 17, 2603-2613	3.6	0
8	Investigation of flux line lattices by SANS with unpolarized and polarized neutrons. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 397, 71-75	2.8	
7	Symmetry-breaking degenerate vortex lattice structures in pure niobium. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 1224-1225	1.3	
6	Vortex lattice correlations in ultra-pure niobium extremely close to T <sub>c2</sub> . <i>Physica B: Condensed Matter</i> , <b>2008</b> , 403, 1062-1064	2.8	

- 5 Neutron Studies of Magnetic Recording Media. *Materials Research Society Symposia Proceedings*, **2003**, 803, 7
- 4 Combined neutron scattering and muon-spin rotation investigations of the Abrikosov state of high-temperature superconductors **2005**, 5932, 374
- 3 High Resolution Neutron Diffraction Studies of the Flux- Line Lattice in Borocarbide Superconductors **2001**, 323-332
- 2 Use of the Neutron Spin Echo Technique to Observe Flux Line Motion. *Lecture Notes in Physics*, **2002**, 215-221 0.8
- 1 Graphite intercalation compound (GIC) crystal monochromators for cold neutron instruments: Characterization of KC by time-of-flight neutron diffraction. *Review of Scientific Instruments*, **2021**, 92, 023306 1.7