

Henrik M Rnnow

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6622221/henrik-m-ronnow-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

232
papers

7,556
citations

45
h-index

77
g-index

254
ext. papers

8,919
ext. citations

6.5
avg, IF

5.47
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 232 | Antiferromagnetic order induced by an applied magnetic field in a high-temperature superconductor. <i>Nature</i> , 2002 , 415, 299-302 | 50.4 | 448 |
| 231 | Néel-type skyrmion lattice with confined orientation in the polar magnetic semiconductor GaV4S8. <i>Nature Materials</i> , 2015 , 14, 1116-22 | 27 | 386 |
| 230 | A new class of chiral materials hosting magnetic skyrmions beyond room temperature. <i>Nature Communications</i> , 2015 , 6, 7638 | 17.4 | 312 |
| 229 | Spin-orbital separation in the quasi-one-dimensional Mott insulator Sr2CuO3. <i>Nature</i> , 2012 , 485, 82-5 | 50.4 | 224 |
| 228 | Quantum helimagnetism of the frustrated spin-1/2 chain LiCuVO4. <i>Europhysics Letters</i> , 2005 , 70, 237-243 | 1.6 | 214 |
| 227 | Two energy scales in the spin excitations of the high-temperature superconductor La2-xSrxCuO4. <i>Nature Physics</i> , 2007 , 3, 163-167 | 16.2 | 171 |
| 226 | Fractional spinon excitations in the quantum Heisenberg antiferromagnetic chain. <i>Nature Physics</i> , 2013 , 9, 435-441 | 16.2 | 163 |
| 225 | Trapping, self-trapping and the polaron family. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 255208 | 1.8 | 155 |
| 224 | Dispersive excitations in the high-temperature superconductor La2-xSrxCuO4. <i>Physical Review Letters</i> , 2004 , 93, 147002 | 7.4 | 137 |
| 223 | Robust metastable skyrmions and their triangular-square lattice structural transition in a high-temperature chiral magnet. <i>Nature Materials</i> , 2016 , 15, 1237-1242 | 27 | 134 |
| 222 | Electric-field-induced Skyrmion distortion and giant lattice rotation in the magnetoelectric insulator Cu2OSeO3. <i>Physical Review Letters</i> , 2014 , 113, 107203 | 7.4 | 132 |
| 221 | Scale-free antiferromagnetic fluctuations in the s = 1/2 kagome antiferromagnet herbertsmithite. <i>Physical Review Letters</i> , 2009 , 103, 237201 | 7.4 | 113 |
| 220 | Electric field control of the skyrmion lattice in Cu2OSeO3. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 432201 | 1.8 | 108 |
| 219 | Fractional excitations in the square lattice quantum antiferromagnet. <i>Nature Physics</i> , 2015 , 11, 62-68 | 16.2 | 104 |
| 218 | Measurement of magnetic excitations in the two-dimensional antiferromagnetic SrCuO2 insulator using resonant x-ray scattering: evidence for extended interactions. <i>Physical Review Letters</i> , 2010 , 105, 157006 | 7.4 | 103 |
| 217 | Spin excitations in a single La2CuO4 layer. <i>Nature Materials</i> , 2012 , 11, 850-4 | 27 | 98 |
| 216 | Quantum phase transition of a magnet in a spin bath. <i>Science</i> , 2005 , 308, 389-92 | 33.3 | 96 |

| | | | |
|-----|--|------|----|
| 215 | Tuning competing orders in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ cuprate superconductors by the application of an external magnetic field. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 95 |
| 214 | Polarons and confinement of electronic motion to two dimensions in a layered manganite. <i>Nature</i> , 2006 , 440, 1025-8 | 50.4 | 94 |
| 213 | Robustness of basal-plane antiferromagnetic order and the $J(\text{eff})=1/2$ state in single-layer iridate spin-orbit Mott insulators. <i>Physical Review Letters</i> , 2013 , 110, 117207 | 7.4 | 93 |
| 212 | Collective magnetic excitations in the spin ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ measured using high-resolution resonant inelastic x-ray scattering. <i>Physical Review Letters</i> , 2009 , 103, 047401 | 7.4 | 92 |
| 211 | Spin dynamics of the 2D spin 1/2 quantum antiferromagnet copper deuteroformate tetradeuterate (CFTD). <i>Physical Review Letters</i> , 2001 , 87, 037202 | 7.4 | 92 |
| 210 | Direct observation of magnon fractionalization in the quantum spin ladder. <i>Physical Review Letters</i> , 2009 , 102, 107204 | 7.4 | 91 |
| 209 | Neutron decoherence imaging for visualizing bulk magnetic domain structures. <i>Physical Review Letters</i> , 2008 , 101, 025504 | 7.4 | 85 |
| 208 | Rods of neutron scattering intensity in $\text{Yb}_2\text{Ti}_2\text{O}_7$: compelling evidence for significant anisotropic exchange in a magnetic pyrochlore oxide. <i>Physical Review Letters</i> , 2011 , 106, 187202 | 7.4 | 84 |
| 207 | Quantum dynamics and entanglement of spins on a square lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15264-9 | 11.5 | 83 |
| 206 | Laser-Induced Skyrmion Writing and Erasing in an Ultrafast Cryo-Lorentz Transmission Electron Microscope. <i>Physical Review Letters</i> , 2018 , 120, 117201 | 7.4 | 75 |
| 205 | Evidence for an incommensurate magnetic resonance in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 71 |
| 204 | Bulk magnetic domain structures visualized by neutron dark-field imaging. <i>Applied Physics Letters</i> , 2008 , 93, 112504 | 3.4 | 70 |
| 203 | Static and dynamic critical properties of the quasi-two-dimensional antiferromagnet MnPS_3 . <i>Physical Review B</i> , 2006 , 74, | 3.3 | 68 |
| 202 | Field-controlled magnetic order in the quantum spin-ladder system $(\text{Hfip})_2\text{CuBr}_4$. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 66 |
| 201 | Magnetic structure and magnon dynamics of the quasi-two-dimensional antiferromagnet FePS_3 . <i>Physical Review B</i> , 2016 , 94, | 3.3 | 62 |
| 200 | Locking of iridium magnetic moments to the correlated rotation of oxygen octahedra in SrIrO_4 revealed by x-ray resonant scattering. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 422202 | 1.8 | 61 |
| 199 | Filming the formation and fluctuation of skyrmion domains by cryo-Lorentz transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14212-7 | 11.5 | 58 |
| 198 | Chemical tunnel-splitting-engineering in a dysprosium-based molecular nanomagnet. <i>Nature Communications</i> , 2018 , 9, 1292 | 17.4 | 53 |

| | | | |
|-----|--|------|----|
| 197 | X-ray resonant scattering study of the quadrupolar order in UPd3. <i>Physical Review Letters</i> , 2001 , 87, 057201 | 7.4 | 53 |
| 196 | Three-dimensionality of field-induced magnetism in a high-temperature superconductor. <i>Nature Materials</i> , 2005 , 4, 658-62 | 27 | 50 |
| 195 | High-Temperature Magnetic Correlations in the 2D S=1/2 Antiferromagnet Copper Formate Tetradeuterate. <i>Physical Review Letters</i> , 1999 , 82, 3152-3155 | 7.4 | 50 |
| 194 | The instrument suite of the European Spallation Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 957, 163402 | 1.2 | 50 |
| 193 | Disordered skyrmion phase stabilized by magnetic frustration in a chiral magnet. <i>Science Advances</i> , 2018 , 4, eaar7043 | 14.3 | 48 |
| 192 | Field-induced magnetic phases and electric polarization in LiNiPO4. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 46 |
| 191 | Nature of the magnetic order in the charge-ordered cuprate La1.48Nd0.4Sr0.12CuO4. <i>Physical Review Letters</i> , 2007 , 98, 197003 | 7.4 | 46 |
| 190 | Magnetic-field-induced soft-mode quantum phase transition in the high-temperature superconductor La1.855Sr0.145CuO4: an inelastic neutron-scattering study. <i>Physical Review Letters</i> , 2009 , 102, 177006 | 7.4 | 45 |
| 189 | Multiple magnon modes and consequences for the Bose-Einstein condensed phase in BaCuSi2O6. <i>Physical Review Letters</i> , 2007 , 98, 017202 | 7.4 | 45 |
| 188 | Transitions and Spin Dynamics at Very Low Temperature in the Pyrochlores Yb2Ti2O7 and Gd2Sn2O7. <i>Hyperfine Interactions</i> , 2004 , 156/157, 103-111 | 0.8 | 45 |
| 187 | Anisotropic softening of magnetic excitations along the nodal direction in superconducting cuprates. <i>Nature Communications</i> , 2014 , 5, 5760 | 17.4 | 44 |
| 186 | Hallmarks of Hund's coupling in the Mott insulator CaRuO. <i>Nature Communications</i> , 2017 , 8, 15176 | 17.4 | 42 |
| 185 | Two-dimensional square-lattice S=12 antiferromagnet Cu(pz)2(ClO4)2. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 42 |
| 184 | Skyrmion formation in a bulk chiral magnet at zero magnetic field and above room temperature. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 42 |
| 183 | Added flexibility in triple axis spectrometers: the two RITAs at Risø <i>Physica B: Condensed Matter</i> , 2000 , 283, 343-354 | 2.8 | 41 |
| 182 | 4-spin plaquette singlet state in the Shastry-Sutherland compound SrCu2(BO3)2. <i>Nature Physics</i> , 2017 , 13, 962-966 | 16.2 | 40 |
| 181 | Critical scaling in the cubic helimagnet Cu2OSeO3. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 40 |
| 180 | Quantification of the local magnetized nanotube domains accelerating the photocatalytic removal of the emerging pollutant tetracycline. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 450-458 | 21.8 | 39 |

| | | | |
|-----|--|------|----|
| 179 | Evidence of quantum dimer excitations in Sr ₃ Ir ₂ O ₇ . <i>Physical Review B</i> , 2015 , 92, | 3-3 | 38 |
| 178 | Origin of the Spin-Orbital Liquid State in a Nearly J=0 Iridate Ba ₃ ZnIr ₂ O ₉ . <i>Physical Review Letters</i> , 2016 , 116, 097205 | 7-4 | 38 |
| 177 | Magnetic Skyrmions and Skyrmion Clusters in the Helical Phase of Cu ₂ OSeO ₃ . <i>Physical Review Letters</i> , 2017 , 119, 137201 | 7-4 | 36 |
| 176 | Superconducting phase in the layered dichalcogenide 1T-TaS ₂ upon inhibition of the metal-insulator transition. <i>Physical Review B</i> , 2010 , 81, | 3-3 | 36 |
| 175 | The electronic structure of the high-symmetry perovskite iridate Ba ₂ IrO ₄ . <i>New Journal of Physics</i> , 2014 , 16, 013008 | 2-9 | 34 |
| 174 | Spin-orbit-induced orbital excitations in Sr ₂ RuO ₄ and Ca ₂ RuO ₄ : A resonant inelastic x-ray scattering study. <i>Physical Review B</i> , 2015 , 91, | 3-3 | 34 |
| 173 | Orbital occupancies and the putative j _{eff} =12 ground state in Ba ₂ IrO ₄ : A combined oxygen K-edge XAS and RIXS study. <i>Physical Review B</i> , 2014 , 89, | 3-3 | 34 |
| 172 | Unified one-band Hubbard model for magnetic and electronic spectra of the parent compounds of cuprate superconductors. <i>Physical Review B</i> , 2012 , 85, | 3-3 | 34 |
| 171 | Magnetic excitations near the quantum phase transition in the Ising ferromagnet LiHoF ₄ . <i>Physical Review B</i> , 2007 , 75, | 3-3 | 33 |
| 170 | Neutral Aminyl Radicals Derived from Azoimidazolium Dyes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15126-15129 | 16.4 | 32 |
| 169 | Dipolar antiferromagnetism and quantum criticality in LiErF ₄ . <i>Science</i> , 2012 , 336, 1416-9 | 33-3 | 31 |
| 168 | Importance of XY anisotropy in Sr ₂ IrO ₄ revealed by magnetic critical scattering experiments. <i>Physical Review B</i> , 2015 , 92, | 3-3 | 30 |
| 167 | Anisotropic cascade of field-induced phase transitions in the frustrated spin-ladder system BiCu ₂ PO ₆ . <i>Physical Review Letters</i> , 2012 , 109, 167204 | 7-4 | 30 |
| 166 | Magnetic-field-induced spin excitations and renormalized spin gap of the underdoped La _{1.895} Sr _{0.105} CuO ₄ superconductor. <i>Physical Review Letters</i> , 2007 , 98, 077004 | 7-4 | 30 |
| 165 | Neutron scattering study of the field-induced soliton lattice in CuGeO ₃ . <i>Physical Review Letters</i> , 2000 , 84, 4469-72 | 7-4 | 30 |
| 164 | Multiple- noncollinear magnetism in an itinerant hexagonal magnet. <i>Science Advances</i> , 2018 , 4, eaau3402 | 4-3 | 30 |
| 163 | Pressure dependence of the magnetic order in CrAs: A neutron diffraction investigation. <i>Physical Review B</i> , 2015 , 91, | 3-3 | 29 |
| 162 | Inelastic x-ray scattering study of superconducting SmFeAsO _{1-x} F _y single crystals: Evidence for strong momentum-dependent doping-induced renormalizations of optical phonons. <i>Physical Review B</i> , 2009 , 80, | 3-3 | 28 |

| | | | |
|-----|---|------|----|
| 161 | Incommensurate magnetic ordering in Cu ₂ Te ₂ O ₅ X ₂ (X=Cl,Br) studied by single crystal neutron diffraction. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 28 |
| 160 | Determining the short-range spin correlations in the spin-chain Li ₂ CuO ₂ and CuGeO ₃ compounds using resonant inelastic x-ray scattering. <i>Physical Review Letters</i> , 2013 , 110, 087403 | 7.4 | 27 |
| 159 | Strong coupling of Sm and Fe magnetism in SmFeAsO as revealed by magnetic x-ray scattering. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 27 |
| 158 | The Jeff = 1/2 insulator Sr ₃ Ir ₂ O ₇ studied by means of angle-resolved photoemission spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 415602 | 1.8 | 27 |
| 157 | In Situ Electric Field Skyrmion Creation in Magnetoelectric CuOSeO. <i>Nano Letters</i> , 2018 , 18, 5167-5171 | 11.5 | 26 |
| 156 | Exploration of the helimagnetic and skyrmion lattice phase diagram in Cu ₂ OSeO ₃ using magnetoelectric susceptibility. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 26 |
| 155 | Dramatic pressure-driven enhancement of bulk skyrmion stability. <i>Scientific Reports</i> , 2016 , 6, 21347 | 4.9 | 26 |
| 154 | Magnetodielectric detection of magnetic quadrupole order in Ba(TiO)Cu(PO) with CuO square cupolas. <i>Nature Communications</i> , 2016 , 7, 13039 | 17.4 | 25 |
| 153 | Anomalous spin waves and the commensurate-incommensurate magnetic phase transition in LiNiPO ₄ . <i>Physical Review B</i> , 2009 , 79, | 3.3 | 25 |
| 152 | Realizing the full potential of a RITA spectrometer. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 1083-1088 | | 25 |
| 151 | Clean, cleaved surfaces of the photovoltaic perovskite. <i>Scientific Reports</i> , 2017 , 7, 695 | 4.9 | 24 |
| 150 | Magnetic correlations in the 2D honeycomb antiferromagnet MnPS ₃ . <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 676-677 | 2.8 | 24 |
| 149 | Chirality of structure and magnetism in the magnetoelectric compound Cu ₂ OSeO ₃ . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 22 |
| 148 | Temperature-dependent electron-phonon coupling in La _{2-x} Sr _x CuO ₄ probed by femtosecond x-ray diffraction. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 22 |
| 147 | BR investigation of magnetism and magnetoelectric coupling in Cu ₂ OSeO ₃ . <i>Physical Review B</i> , 2011 , 84, | 3.3 | 22 |
| 146 | Pair correlations, short-range order, and dispersive excitations in the quasi-kagome quantum magnet volborthite. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 22 |
| 145 | Anisotropy and the critical behaviour of the quasi-2D antiferromagnet,. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1221-1223 | 2.8 | 22 |
| 144 | Influence of higher d-wave gap harmonics on the dynamical magnetic susceptibility of high-temperature superconductors. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 22 |

| | | | |
|-----|--|------|----|
| 143 | Magnetic Excitations and Electronic Interactions in Sr ₂ CuTeO ₆ : A Spin-1/2 Square Lattice Heisenberg Antiferromagnet. <i>Physical Review Letters</i> , 2016 , 117, 237203 | 7.4 | 22 |
| 142 | Direct electric field control of the skyrmion phase in a magnetoelectric insulator. <i>Scientific Reports</i> , 2018 , 8, 10466 | 4.9 | 21 |
| 141 | Evidence for spinon localization in the heat transport of the spin-1/2 ladder compound (C ₅ H ₁₂ N) ₂ CuBr ₄ . <i>Physical Review B</i> , 2009 , 80, | 3.3 | 21 |
| 140 | Field-induced quantum soliton lattice in a frustrated two-leg spin-1/2 ladder. <i>Physical Review Letters</i> , 2013 , 110, 187201 | 7.4 | 20 |
| 139 | Electric-Field-Driven Topological Phase Switching and Skyrmion-Lattice Metastability in Magnetoelectric Cu ₂ OSeO ₃ . <i>Physical Review Applied</i> , 2018 , 10, | 4.3 | 19 |
| 138 | Evidence for core-hole-mediated inelastic x-ray scattering from metallic Fe _{1.087} Te. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 19 |
| 137 | Quantum renormalization of high-energy excitations in the 2D Heisenberg model. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, L405-L408 | 1.8 | 19 |
| 136 | Low-Field Bi-Skyrmion Formation in a Noncentrosymmetric Chimney Ladder Ferromagnet. <i>Physical Review Letters</i> , 2018 , 120, 037203 | 7.4 | 18 |
| 135 | Direct observation of anisotropic magnetic field response of the spin helix in FeGe thin films. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 18 |
| 134 | Pressure dependence of the structure and electronic properties of Sr ₃ Ir ₂ O ₇ . <i>Physical Review B</i> , 2016 , 93, | 3.3 | 18 |
| 133 | Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 18 |
| 132 | Magnetic model in multiferroic NdFe ₃ (BO ₃) ₄ investigated by inelastic neutron scattering. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 18 |
| 131 | Low-energy spin dynamics of the s = 1/2 kagome system herbertsmithite. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 106001 | 1.8 | 18 |
| 130 | Crystal growth and characterization of the dilutable frustrated spin-ladder compound Bi(Cu _{1-x} Zn _x) ₂ PO ₆ . <i>Journal of Crystal Growth</i> , 2010 , 313, 51-55 | 1.6 | 18 |
| 129 | Chromium at high pressures: Weak coupling and strong fluctuations in an itinerant antiferromagnet. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 18 |
| 128 | Electromagnon dispersion probed by inelastic X-ray scattering in LiCrO. <i>Nature Communications</i> , 2016 , 7, 13547 | 17.4 | 18 |
| 127 | CAMEA--A novel multiplexing analyzer for neutron spectroscopy. <i>Review of Scientific Instruments</i> , 2016 , 87, 035109 | 1.7 | 18 |
| 126 | Probing multi-spinon excitations outside of the two-spinon continuum in the antiferromagnetic spin chain cuprate SrCuO. <i>Nature Communications</i> , 2018 , 9, 5394 | 17.4 | 18 |

| | | | |
|-----|--|-------|----|
| 125 | Single-chip electron spin resonance detectors operating at 50GHz, 92GHz, and 146GHz. <i>Journal of Magnetic Resonance</i> , 2017 , 278, 113-121 | 3 | 17 |
| 124 | The thermal triple-axis-spectrometer EIGER at the continuous spallation source SINQ. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 853, 16-19 | 1.2 | 17 |
| 123 | Strain-engineering Mott-insulating LaCuO. <i>Nature Communications</i> , 2019 , 10, 786 | 17.4 | 17 |
| 122 | Superparamagnetic Nanoparticles as High Efficiency Magnetic Resonance Imaging T Contrast Agent. <i>Bioconjugate Chemistry</i> , 2017 , 28, 161-170 | 6.3 | 17 |
| 121 | Low-temperature spin dynamics of a valence bond glass in Ba ₂ YMoO ₆ . <i>New Journal of Physics</i> , 2013 , 15, 043024 | 2.9 | 17 |
| 120 | Glassy low-energy spin fluctuations and anisotropy gap in La _{1.88} Sr _{0.12} CuO ₄ . <i>Physical Review B</i> , 2013 , 87, | 3.3 | 17 |
| 119 | New solid state polarizing bender for cold neutrons. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 1152-1154 | 11.54 | 17 |
| 118 | Inelastic neutron scattering experiments with the monochromatic imaging mode of the RITA-II spectrometer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 246, 452-462 | 1.2 | 17 |
| 117 | Deviations from linear spin wave theory in the 2D, S= Heisenberg antiferromagnet CFTD. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 896-897 | 2.8 | 17 |
| 116 | Direct Observation of the Statics and Dynamics of Emergent Magnetic Monopoles in a Chiral Magnet. <i>Physical Review Letters</i> , 2020 , 125, 137202 | 7.4 | 17 |
| 115 | Melting of a skyrmion lattice to a skyrmion liquid via a hexatic phase. <i>Nature Nanotechnology</i> , 2020 , 15, 761-767 | 28.7 | 16 |
| 114 | Dispersive magnetic and electronic excitations in iridate perovskites probed by oxygen K-edge resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 16 |
| 113 | Ba ₃ MxTi ₃ MoO ₉ (M=Ir, Rh): A family of 5d/4d-based diluted quantum spin liquids. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 16 |
| 112 | Quantum critical scaling for a Heisenberg spin-1/2 chain around saturation. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 16 |
| 111 | Dinuclear clathrochelate complexes with pendent cyano groups as metalloligands. <i>Dalton Transactions</i> , 2016 , 45, 15507-15516 | 4.3 | 15 |
| 110 | Bilayer splitting and wave functions symmetry in Sr ₃ Ir ₂ O ₇ . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 15 |
| 109 | Magnetic hourglass dispersion and its relation to high-temperature superconductivity in iron-tuned Fe _{1+y} Te _{0.7} Se _{0.3} . <i>New Journal of Physics</i> , 2012 , 14, 073025 | 2.9 | 15 |
| 108 | The performance of a multiplexing three-axis spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 530, 404-409 | 1.2 | 15 |

| | | | |
|-----|---|-----|----|
| 107 | Controlling the helicity of magnetic skyrmions in a EMn -type high-temperature chiral magnet. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 15 |
| 106 | A-cation control of magnetoelectric quadrupole order in $\text{A}(\text{TiO})\text{Cu}_4(\text{PO}_4)_4$ ($\text{A}=\text{Ba}, \text{Sr}, \text{and Pb}$). <i>Physical Review B</i> , 2018 , 97, | 3.3 | 14 |
| 105 | Spin excitations in the skyrmion host Cu_2OSeO_3 . <i>Physical Review B</i> , 2016 , 93, | 3.3 | 14 |
| 104 | A New Realisation of the $S = 1/2$ Frustrated Chain Antiferromagnet. <i>Chemistry of Materials</i> , 2008 , 20, 8-10 | 9.6 | 14 |
| 103 | Neutron diffraction studies of nuclear and magnetic structures in the $S=1$ square Heisenberg antiferromagnets $(\text{d}6\text{CAP})_2\text{CuX}_4$ ($\text{X}=\text{Br}$ and Cl). <i>Physical Review B</i> , 2007 , 75, | 3.3 | 14 |
| 102 | Prismatic analyser concept for neutron spectrometers. <i>Review of Scientific Instruments</i> , 2014 , 85, 113908. | 1.7 | 13 |
| 101 | Determination of the single-ion anisotropy energy in a $S=2$ kagome antiferromagnet using x-ray absorption spectroscopy. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 13 |
| 100 | Neutron spectroscopic study of crystal-field excitations and the effect of the crystal field on dipolar magnetism in LiRF_4 ($\text{R}=\text{Gd}, \text{Ho}, \text{Er}, \text{Tm}, \text{and Yb}$). <i>Physical Review B</i> , 2015 , 92, | 3.3 | 12 |
| 99 | Site-selective quantum correlations revealed by magnetic anisotropy in the tetramer system SeCuO_3 . <i>Physical Review B</i> , 2012 , 86, | 3.3 | 12 |
| 98 | Spin-gap evolution upon Ca doping in the spin-ladder series $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ studied by inelastic neutron scattering. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 12 |
| 97 | The surface layer of cleaved bilayer manganites. <i>Nanotechnology</i> , 2007 , 18, 044020 | 3.4 | 12 |
| 96 | Intrachain antiferromagnetic exchange in a 1D branched-chain built of two different copper(II) centres interlinked by end-on azido and phenoxo bridges: electron density map, electrochemical and magnetic properties. <i>RSC Advances</i> , 2015 , 5, 59926-59934 | 3.7 | 11 |
| 95 | Deformation of the moving magnetic skyrmion lattice in MnSi under electric current flow. <i>Communications Physics</i> , 2019 , 2, | 5.4 | 11 |
| 94 | Temperature dependence of the pressure induced monoclinic distortion in the spin $S=1/2$ Shastry-Butherland compound $\text{SrCu}_2(\text{BO}_3)_2$. <i>Solid State Communications</i> , 2014 , 186, 13-17 | 1.6 | 11 |
| 93 | Nodal Landau Fermi-liquid quasiparticles in overdoped $\text{La}_{1.77}\text{Sr}_{0.23}\text{CuO}_4$. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 11 |
| 92 | Quantum and thermal ionic motion, oxygen isotope effect, and superexchange distribution in La_2CuO_4 . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 11 |
| 91 | Spatial inhomogeneity in $\text{RFeAsO}_{1-x}\text{Fx}$ ($\text{R}=\text{Pr}, \text{Nd}$) determined from rare-earth crystal-field excitations. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 11 |
| 90 | Charge ordering, stripes and phase separation in manganese perovskite oxides: An STM/STS study. <i>Materials Science and Engineering C</i> , 2005 , 25, 775-778 | 8.3 | 11 |

| | | | |
|----|--|------|----|
| 89 | Metastable skyrmion lattices governed by magnetic disorder and anisotropy in Mn -type chiral magnets. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 11 |
| 88 | $J1\bar{1}2$ square-lattice Heisenberg antiferromagnets with 4d1 spins: AMoOPO_4Cl ($A=\text{K,Rb}$). <i>Physical Review B</i> , 2017 , 95, | 3.3 | 10 |
| 87 | Damped spin excitations in a doped cuprate superconductor with orbital hybridization. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 10 |
| 86 | Phonon energy gaps in the charged incommensurate planes of the spin-ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ compound by Raman and infrared spectroscopy. <i>Physical Review Letters</i> , 2012 , 108, 217401 | 7.4 | 10 |
| 85 | Structural and magnetic instabilities of $\text{La}_{2-x}\text{Sr}_x\text{CaCu}_2\text{O}_6$. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 10 |
| 84 | High-Temperature Charge-Stripe Correlations in $\text{La}_{\{1.675\}}\text{Eu}_{\{0.2\}}\text{Sr}_{\{0.125\}}\text{CuO}_{\{4\}}$. <i>Physical Review Letters</i> , 2020 , 124, 187002 | 7.4 | 9 |
| 83 | High field magnetization of FePS_3 . <i>Physical Review B</i> , 2020 , 101, | 3.3 | 9 |
| 82 | Correlation between site occupancies and spin-glass transition in skyrmion host $\text{Co}_{10-x}\text{Zn}_{10-x}\text{Mn}_x$. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 9 |
| 81 | Anomalous magnetic excitations of cooperative tetrahedral spin clusters. <i>Physical Review Letters</i> , 2009 , 102, 177202 | 7.4 | 9 |
| 80 | Spangolite: an $s = 1/2$ maple leaf lattice antiferromagnet?. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 164201 | 1.8 | 9 |
| 79 | A quantum magnetic analogue to the critical point of water. <i>Nature</i> , 2021 , 592, 370-375 | 50.4 | 9 |
| 78 | Magnons in tetragonal CuO . <i>Physical Review B</i> , 2015 , 92, | 3.3 | 8 |
| 77 | $\text{Sc}_2\text{Ga}_2\text{CuO}_7$: A possible quantum spin liquid near the percolation threshold. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 8 |
| 76 | One-dimensional quantum magnetism in the anhydrous alum $\text{KTi}(\text{SO}_4)_2$. <i>New Journal of Physics</i> , 2015 , 17, 113035 | 2.9 | 8 |
| 75 | Magnetic structure of Gd , GdH_2 and NdH_2 single crystal films. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 5011-5020 | 1.8 | 8 |
| 74 | Radial Spin Texture of the Weyl Fermions in Chiral Tellurium. <i>Physical Review Letters</i> , 2020 , 125, 216402 | 7.4 | 8 |
| 73 | Correlated decay of triplet excitations in the Shastry-Sutherland compound $\text{SrCu}_2(\text{BO}_3)_2$. <i>Physical Review Letters</i> , 2014 , 113, 067201 | 7.4 | 7 |
| 72 | Mapping the lattice dynamical anomaly of the order parameters across the Verwey transition in magnetite. <i>New Journal of Physics</i> , 2017 , 19, 103013 | 2.9 | 7 |

| | | | |
|----|---|-----|---|
| 71 | Magnetic structure of Ba(TiO)Cu ₄ (PO ₄) ₄ probed using spherical neutron polarimetry. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 7 |
| 70 | Phase diagram with an enhanced spin-glass region of the mixed IsingXY magnet LiHo _x Er _{1-x} F ₄ . <i>Physical Review B</i> , 2013 , 88, | 3.3 | 7 |
| 69 | The Swiss spallation neutron source SINQ—developments and upgrades for optimized user service. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 968-971 | 2.8 | 7 |
| 68 | Inelastic neutron polarization analysis in low-dimensional systems. <i>Physica B: Condensed Matter</i> , 2004 , 345, 111-118 | 2.8 | 7 |
| 67 | Chasing ghosts in reciprocal space—novel inelastic neutron multiple scattering process. <i>Physica B: Condensed Matter</i> , 2004 , 350, 11-16 | 2.8 | 7 |
| 66 | Excitations of the field-induced quantum soliton lattice in CuGeO ₃ . <i>Physical Review Letters</i> , 2001 , 87, 177203 | 7.4 | 7 |
| 65 | Exchange Interactions Mediated by Nonmagnetic Cations in Double Perovskites. <i>Physical Review Letters</i> , 2020 , 124, 077202 | 7.4 | 6 |
| 64 | Magnetic and structural properties of Ni-substituted magnetoelectric Co ₄ Nb ₂ O ₉ . <i>Physical Review B</i> , 2019 , 100, | 3.3 | 6 |
| 63 | J1J ₂ square lattice antiferromagnetism in the orbitally quenched insulator MoOPO ₄ . <i>Physical Review B</i> , 2017 , 96, | 3.3 | 6 |
| 62 | Charge-Stripe Order and Superconductivity in IrPtTe. <i>Scientific Reports</i> , 2017 , 7, 17157 | 4.9 | 6 |
| 61 | Note: versatile sample stick for neutron scattering experiments in high electric fields. <i>Review of Scientific Instruments</i> , 2014 , 85, 026112 | 1.7 | 6 |
| 60 | Inelastic neutron polarization analysis. <i>Physica B: Condensed Matter</i> , 2003 , 335, 19-25 | 2.8 | 6 |
| 59 | High-field spin dynamics of antiferromagnetic quantum spin chains. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 560-561 | 2.8 | 6 |
| 58 | Electronic and magnetic excitations in the half-stuffed Cu-O planes of Ba ₂ Cu ₃ O ₄ Cl ₂ measured by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 5 |
| 57 | Magnetic excitations from the two-dimensional interpenetrating Cu framework in Ba ₂ Cu ₃ O ₄ Cl ₂ . <i>Physical Review B</i> , 2017 , 96, | 3.3 | 5 |
| 56 | An ultra-low temperature scanning Hall probe microscope for magnetic imaging below 40 mK. <i>Review of Scientific Instruments</i> , 2014 , 85, 103703 | 1.7 | 5 |
| 55 | Longitudinal-neutron-polarization-analysis study of the spin dynamics in Sr ₁₄ Cu ₂₄ O ₄₁ . <i>Physica B: Condensed Matter</i> , 2004 , 350, 40-44 | 2.8 | 5 |
| 54 | Correlations and fluctuations in the 2D Heisenberg antiferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 236, 4-5 | 2.8 | 5 |

| | | | |
|----|---|-----|---|
| 53 | Negative-pressure-induced helimagnetism in ferromagnetic cubic perovskites Sr _{1-x} BaxCoO ₃ . <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 5 |
| 52 | Evaluation of HOPG mounting possibilities for multiplexing spectrometers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 858, 30-35 | 1.2 | 4 |
| 51 | Crystal Structure, Transport, and Magnetic Properties of an Ir(6+) Compound Ba ₈ Al ₂ IrO ₁₄ . <i>Inorganic Chemistry</i> , 2015 , 54, 4371-6 | 5.1 | 4 |
| 50 | Homo- and Heterodinuclear Iron Clathrochelate Complexes with Functional Groups in the Ligand Periphery. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 3118-3125 | 2.3 | 4 |
| 49 | Prototype of the novel CAMEA concept-A backend for neutron spectrometers. <i>Review of Scientific Instruments</i> , 2018 , 89, 015105 | 1.7 | 4 |
| 48 | Dimensional Reduction in Quantum Dipolar Antiferromagnets. <i>Physical Review Letters</i> , 2016 , 116, 197202 | 2.4 | 4 |
| 47 | A combined radial collimator and cooled beryllium filter for neutron scattering. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 819, 99-103 | 1.2 | 4 |
| 46 | Vital role of magnetocrystalline anisotropy in cubic chiral skyrmion hosts. <i>Npj Quantum Materials</i> , 2021 , 6, | 5 | 4 |
| 45 | Field-induced anisotropy in the quasi-two-dimensional weakly anisotropic antiferromagnet [CuCl(py ₂) ₂]BF ₄ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 3 |
| 44 | Exact diagonalization study of the Hubbard-parametrized four-spin ring exchange model on a square lattice. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 3 |
| 43 | Suppression of Magnetic Order before the Superconducting Dome in MnP. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 023703 | 1.5 | 3 |
| 42 | 24-spin clusters in the mineral boleite KPb ₂₆ Ag ₉ Cu ₂₄ Cl ₆₂ (OH) ₄₈ . <i>Physical Review B</i> , 2018 , 97, | 3.3 | 3 |
| 41 | Probing strongly hybridized nuclear-electronic states in a model quantum ferromagnet. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 3 |
| 40 | Singlet state formation and its impact on the magnetic structure in the tetramer system SeCuO ₃ . <i>Physical Review B</i> , 2018 , 98, | 3.3 | 3 |
| 39 | Spin excitations and quantum criticality in the quasi-one-dimensional Ising-like ferromagnet CoCl ₂ D ₂ O in a transverse field. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 3 |
| 38 | Electronic structure of KTi(SO ₄) ₂ H ₂ O: An S=12 frustrated chain antiferromagnet. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 3 |
| 37 | Performances of a new focusing supermirror guide on IN14. <i>Physica B: Condensed Matter</i> , 2004 , 350, E683-E686 | 2.8 | 3 |
| 36 | Dynamics in Fe ₂ O ₃ nanoparticles studied by time-of-flight polarized neutron scattering. <i>Physica B: Condensed Matter</i> , 2004 , 350, E217-E219 | 2.8 | 3 |

| | | | |
|----|---|-----|---|
| 35 | R̄now et al. Reply.: <i>Physical Review Letters</i> , 2002 , 89, | 7.4 | 3 |
| 34 | Magnetic neutron scattering resonance of high-Tc superconductors in external magnetic fields: An SO(5) study. <i>Physical Review B</i> , 2000 , 62, 8703-8706 | 3.3 | 3 |
| 33 | In situ control of the helical and skyrmion phases in Cu ₂ OSeO ₃ using high-pressure helium gas up to 5 kbar. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 2 |
| 32 | Persistent antiferromagnetic order in heavily overdoped Ca La FeAs. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 485705 | 1.8 | 2 |
| 31 | The use of selected neutron absorption resonance filters to suppress spurious events on hot neutron spectrometers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 780, 9-14 | 1.2 | 2 |
| 30 | Nonequilibrium hysteresis and spin relaxation in the mixed-anisotropy dipolar-coupled spin-glass LiHo _{0.5} Er _{0.5} F ₄ . <i>Physical Review B</i> , 2014 , 90, | 3.3 | 2 |
| 29 | High pressure electrical resistivity and specific heat of the heavy fermion compound CeCoGe _{2.2} Si _{0.8} . <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 511-514 | 1.3 | 2 |
| 28 | Static and Dynamic Spins in Superconducting La _{2-x} Sr _x CuO ₄ : The Rise of Skyrmions. <i>Journal of Low Temperature Physics</i> , 2004 , 135, 621-664 | 1.3 | 2 |
| 27 | Spin dynamics in the mixed phase of La _{2-x} Sr _x CuO ₄ (x=0.10, x=0.17). <i>Physica B: Condensed Matter</i> , 2004 , 350, 72-75 | 2.8 | 2 |
| 26 | Frustration-driven magnetic fluctuations as the origin of the low-temperature skyrmion phase in Co ₇ Zn ₇ Mn ₆ . <i>Npj Quantum Materials</i> , 2021 , 6, | 5 | 2 |
| 25 | MnO nanoparticles as the cause of ferromagnetism in bulk dilute Mn-doped ZnO. <i>Applied Physics Letters</i> , 2016 , 109, 252405 | 3.4 | 2 |
| 24 | Temperature dependence of the [Formula: see text] anomaly in the excitation spectrum of the 2D quantum Heisenberg antiferromagnet. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 374007 | 1.8 | 1 |
| 23 | Energy domain versus time domain precursor fluctuations above the Verwey transition in magnetite. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 1 |
| 22 | Note: Commercial SQUID magnetometer-compatible NMR probe and its application for studying a quantum magnet. <i>Review of Scientific Instruments</i> , 2018 , 89, 046101 | 1.7 | 1 |
| 21 | Converse effect of pressure on the quadrupolar and magnetic transition in Ce ₃ Pd ₂₀ Si ₆ . <i>Physical Review B</i> , 2016 , 93, | 3.3 | 1 |
| 20 | Magnetic Field-Induced Closure of the Spin Excitation Gap near Optimal Doping in La _{2-x} Sr _x CuO ₄ . <i>Journal of the Physical Society of Japan</i> , 2011 , 80, SB030 | 1.5 | 1 |
| 19 | Micro-fabrication process for small transport devices of layered manganite. <i>Journal of Applied Physics</i> , 2012 , 111, 07E129 | 2.5 | 1 |
| 18 | High pressure phase diagram of CeCoGe _{2.2} Si _{0.8} . <i>Journal of Physics: Conference Series</i> , 2012 , 391, 012034 | 3.3 | 1 |

| | | | |
|----|--|-------|---|
| 17 | Monte Carlo simulations for instrumentation at SINQ. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 1346-1348 | 1.848 | 1 |
| 16 | Effects of magnetic field on the cuprate high-T _c superconductor La _{2-x} Sr _x CuO ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 1223-1228 | 1.3 | 1 |
| 15 | Neutron scattering study of the incommensurate high-field phase of CuGeO ₃ . <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 678-679 | 2.8 | 1 |
| 14 | Magnetic Field Induced Quantum Spin Liquid in the Two Coupled Trillium Lattices of K ₂ Ni ₂ (SO ₄) ₃ . <i>Physical Review Letters</i> , 2021 , 127, 157204 | 7.4 | 1 |
| 13 | Staggered flux state for rectangular-lattice spin-12 Heisenberg antiferromagnets. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 12 | Journal of Physics: Conference Series High-pressure specific heat technique to uncover novel states of quantum matter. <i>Journal of Physics: Conference Series</i> , 2020 , 1609, 012008 | 0.3 | 1 |
| 11 | Phase diagram of diluted Ising ferromagnet LiHo _x Y _{1-x} F ₄ . <i>Physical Review B</i> , 2016 , 94, | 3.3 | 1 |
| 10 | Pressure induced evolution of superconductivity and magnetic hourglass dispersion in Fe _{1.02} Te _{0.7} Se _{0.3} . <i>New Journal of Physics</i> , 2015 , 17, 043020 | 2.9 | |
| 9 | Direct bonded HOPG Δ Analyzer support without background source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 888, 218-221 | 1.2 | |
| 8 | Effect of Ca substitution on crystal structure and superconducting properties of ferromagnetic superconductor RuSr _{2-x} CaxGd _{1.4} Ce _{0.6} Cu ₂ O ₁₀ . <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 949-954 | 2.8 | |
| 7 | Magnetic Dynamics Studied by Time-Resolved Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 649-650 | 0.5 | |
| 6 | DC Magnetic Susceptibility of CeCoGe _{2.36} Si _{0.64} under High Pressure. <i>Solid State Phenomena</i> , 2012 , 190, 405-408 | 0.4 | |
| 5 | Incommensurate magnetism in the coupled spin tetrahedra system Cu ₂ Te ₂ O ₅ Cl ₂ . <i>Low Temperature Physics</i> , 2005 , 31, 814-818 | 0.7 | |
| 4 | Statics and dynamics of the magnetic soliton lattice in the high-field phase of CuGeO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 465-467 | 2.8 | |
| 3 | Direct Visualisation of Skyrmion Lattice Defect Alignment at Grain Boundaries.. <i>Nanoscale Research Letters</i> , 2022 , 17, 20 | 5 | |
| 2 | Scanning Tunneling Microscopy and Spectroscopy of Manganites 2007 , 534-558 | | |
| 1 | Synthesis of murunskite single crystals: A bridge between cuprates and pnictides. <i>Applied Materials Today</i> , 2021 , 24, 101096 | 6.6 | |