

Dmitry D Khalyavin

List of Publications by Year in Descending Order

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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

4,453
citations

33
h-index

57
g-index

257
ext. papers

5,136
ext. citations

4.2
avg, IF

5.28
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 232 | The orthorhombic-tetragonal morphotropic phase boundary in high-pressure synthesized BiMg _{0.5} Ti _{0.5} O ₃ BiZn _{0.5} Ti _{0.5} O ₃ perovskite solid solutions. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 161, 110392 | 3.9 | 1 |
| 231 | Magnetic Behaviour of Perovskite Compositions Derived from BiFeO ₃ . <i>Magnetochemistry</i> , 2021 , 7, 151 | 3.1 | 0 |
| 230 | Cationic Ordering, Solid Solution Domain, and Diffuse Reflectance in Fe ₂ WO ₆ Polymorphs. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25907-25916 | 3.8 | 1 |
| 229 | Crossover from Kondo semiconductor to metallic antiferromagnet with 5d-electron doping in CeFe ₂ Al ₁₀ . <i>Physical Review B</i> , 2021 , 104, | 3.3 | 1 |
| 228 | Diffraction by multipoles in a 5d ² rhenium double perovskite. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 1 |
| 227 | Structural and magnetic properties of the quantum magnet BaCuTe ₂ O ₆ . <i>Physical Review B</i> , 2021 , 103, | 3.3 | 2 |
| 226 | Competing electronic instabilities in the quadruple perovskite manganite PbMn ₇ O ₁₂ . <i>Physical Review B</i> , 2021 , 103, | 3.3 | 1 |
| 225 | Fragile ground state and rigid field-induced structures in the zigzag ladder compound BaDy ₂ O ₄ . <i>Physical Review B</i> , 2021 , 103, | 3.3 | 3 |
| 224 | Magnetic and electronic ordering phenomena in the Ru ₂ O ₆ -layer honeycomb lattice compound AgRuO ₃ . <i>Physical Review B</i> , 2021 , 103, | 3.3 | 1 |
| 223 | Field-induced magnetic states in geometrically frustrated SrEr ₂ O ₄ . <i>SciPost Physics</i> , 2021 , 11, | 6.1 | 2 |
| 222 | A plethora of structural transitions, distortions and modulations in Cu-doped BiMn ₇ O ₁₂ quadruple perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10232-10242 | 7.1 | 1 |
| 221 | Spontaneous and Induced Ferroelectricity in the BiFe _{1-x} Sc _x O ₃ Perovskite Ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100173 | 1.6 | 1 |
| 220 | The rich physics of A-site-ordered quadruple perovskite manganites AMnO. <i>Dalton Transactions</i> , 2021 , 50, 15458-15472 | 4.3 | 2 |
| 219 | Heisenberg spins on an anisotropic triangular lattice: PdCrO ₂ under uniaxial stress. <i>New Journal of Physics</i> , 2021 , 23, 123050 | 2.9 | 0 |
| 218 | Magnetically induced metal-insulator transition in Pb ₂ CaOsO ₆ . <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 217 | Evidence for a three-dimensional quantum spin liquid in PbCuTeO. <i>Nature Communications</i> , 2020 , 11, 2348 | 17.4 | 15 |
| 216 | Phase Transitions in the Metastable Perovskite Multiferroics BiCrO and BiCrScO: A Comparative Study. <i>Inorganic Chemistry</i> , 2020 , 59, 8727-8735 | 5.1 | 1 |

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|-----|--|------|----|
| 215 | High-Pressure Synthesis, Crystal Structures, and Properties of A-Site Columnar-Ordered Quadruple Perovskites NaRMnTiO with R = Sm, Eu, Gd, Dy, Ho, Y. <i>Inorganic Chemistry</i> , 2020 , 59, 9065-9076 | 5.1 | 4 |
| 214 | Nuclear and magnetic structures of KMnF ₃ perovskite in the temperature interval 10 K–105 K. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155935 | 5.7 | 4 |
| 213 | Neutron diffraction and symmetry analysis of the martensitic transformation in Co-doped Ni ₂ MnGa. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 3 |
| 212 | Strong quantum fluctuations from competition between magnetic phases in a pyrochlore iridate. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 3 |
| 211 | Spontaneous Rotation of Ferrimagnetism Driven by Antiferromagnetic Spin Canting. <i>Physical Review Letters</i> , 2020 , 124, 127201 | 7.4 | 5 |
| 210 | Original Network of Zigzag Chains in the β -Polymorph of FeWO ₄ : Crystal Structure and Magnetic Ordering. <i>Inorganic Chemistry</i> , 2020 , 59, 9798-9806 | 5.1 | 2 |
| 209 | Emergent topological spin structures in the centrosymmetric cubic perovskite SrFeO ₃ . <i>Physical Review B</i> , 2020 , 101, | 3.3 | 31 |
| 208 | Spontaneous cycloidal order mediating a spin-reorientation transition in a polar metal. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 3 |
| 207 | Magnetic structure of the quantum magnet SrCuTe ₂ O ₆ . <i>Physical Review B</i> , 2020 , 102, | 3.3 | 2 |
| 206 | Electric and antiferromagnetic chiral textures at multiferroic domain walls. <i>Nature Materials</i> , 2020 , 19, 386-390 | 27 | 36 |
| 205 | Magnetic ground state of the ordered double-perovskite Sr ₂ YbRuO ₆ : Two magnetic transitions. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 3 |
| 204 | Emergent helical texture of electric dipoles. <i>Science</i> , 2020 , 369, 680-684 | 33.3 | 16 |
| 203 | Lone octupole and bulk magnetism in osmate 5d ² double perovskites. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 2 |
| 202 | Magnetic Diagram of the High-Pressure Stabilized Multiferroic Perovskites of the BiFe _{1-y} ScyO ₃ Series. <i>Crystals</i> , 2020 , 10, 950 | 2.3 | 5 |
| 201 | Emergence of a Magnetostructural Dipolar Glass in the Quadruple Perovskite Dy _{1-x} Mn _x FeO ₁₂ . <i>Physical Review Letters</i> , 2020 , 125, 097601 | 7.4 | 2 |
| 200 | Non-collinear Order and Spin-Orbit Coupling in Sr ₃ ZnIrO ₆ . <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 064703 | 1.5 | 0 |
| 199 | Magnetically driven loss of centrosymmetry in metallic Pb ₂ CoOsO ₆ . <i>Physical Review B</i> , 2020 , 102, | 3.3 | 4 |
| 198 | Exchange bias effect in bulk multiferroic BiFe _{0.5} Sc _{0.5} O ₃ . <i>AIP Advances</i> , 2020 , 10, 045102 | 1.5 | 4 |

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|-----|---|------|----|
| 197 | Field-Induced Transitions in Highly Frustrated SrHo ₂ O ₄ . <i>Crystals</i> , 2019 , 9, 488 | 2.3 | 4 |
| 196 | Magnetic frustration and spontaneous rotational symmetry breaking in PdCrO ₂ . <i>Physical Review B</i> , 2019 , 100, | 3.3 | 3 |
| 195 | Magnetic order and single-ion anisotropy in Tb ₃ Ga ₅ O ₁₂ . <i>Physical Review B</i> , 2019 , 100, | 3.3 | 4 |
| 194 | Magnetic states of Ni-Mn-Sn based shape memory alloy: A combined muon spin relaxation and neutron diffraction study. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 2 |
| 193 | Magnetic multipoles in a ruthenate Ca ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 3 |
| 192 | Colossal magnetoresistance in the insulating ferromagnetic double perovskites Tl ₂ NiMnO ₆ : A neutron diffraction study. <i>Acta Materialia</i> , 2019 , 173, 20-26 | 8.4 | 8 |
| 191 | The phenomenon of conversion polymorphism in Bi-containing metastable perovskites. <i>Chemical Communications</i> , 2019 , 55, 4683-4686 | 5.8 | 10 |
| 190 | Magnetic structure and spin-flop transition in the A-site columnar-ordered quadruple perovskite TmMn ₃ O ₆ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 9 |
| 189 | Difference in magnetic and ferroelectric properties between rhombohedral and hexagonal polytypes of AgFeO ₂ : A single-crystal study. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 3 |
| 188 | Direct Observation of Anapoles by Neutron Diffraction. <i>Physical Review Letters</i> , 2019 , 122, 047203 | 7.4 | 5 |
| 187 | Valence Variations by B-Site Doping in A-Site Columnar-Ordered Quadruple Perovskites SmMnMn(MnTi)O with 1/3 B. <i>Inorganic Chemistry</i> , 2019 , 58, 3492-3501 | 5.1 | 9 |
| 186 | The Biaxial Strain Dependence of Magnetic Order in Spin Frustrated Mn ₃ NiN Thin Films. <i>Advanced Functional Materials</i> , 2019 , 29, 1902502 | 15.6 | 8 |
| 185 | Mn ₂ TeO ₆ : Complex antiferromagnetism as a consequence of the Jahn-Teller distortion. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 1 |
| 184 | Spin-Glass Magnetic Properties of A-Site Columnar-Ordered Quadruple Perovskites YMnGa(MnGa)O with 0.5 B. <i>Inorganic Chemistry</i> , 2019 , 58, 14830-14841 | 5.1 | 2 |
| 183 | Spin Jahn-Teller antiferromagnetism in CoTi ₂ O ₅ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 4 |
| 182 | Commensurate to incommensurate magnetic phase transition in honeycomb-lattice pyrovanadate Mn ₂ V ₂ O ₇ . <i>Physical Review Materials</i> , 2019 , 3, | 3.2 | 5 |
| 181 | Field-induced magnetic charge in a cubic Laves compound UAl ₂ . <i>Journal of Physics: Conference Series</i> , 2019 , 1316, 012004 | 0.3 | 1 |
| 180 | Investigating the magnetic ground state of the skyrmion host material Cu ₂ OSeO ₃ using long-wavelength neutron diffraction. <i>AIP Advances</i> , 2019 , 9, 125228 | 1.5 | |

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|-----|---|------|----|
| 179 | Anapole correlations in Sr ₂ IrO ₄ defy the j _{eff} =1/2 model. <i>Physical Review B</i> , 2019 , 100, | 3-3 | 5 |
| 178 | Displacive structural phase transitions and the magnetic ground state of quadruple perovskite YMn ₇ O ₁₂ . <i>Physical Review B</i> , 2019 , 99, | 3-3 | 7 |
| 177 | High-pressure neutron diffraction study of Pd ₃ Fe. <i>Journal of Applied Physics</i> , 2019 , 125, 015901 | 2-5 | 0 |
| 176 | Symmetry-determined antiferroelectricity in PbZrO ₃ , NaNbO ₃ , and PbHfO ₃ . <i>Physical Review B</i> , 2019 , 99, | 3-3 | 13 |
| 175 | The p(O)-T stability domain of cubic perovskite BaSrCoFeO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4442-4454 | 3-6 | 10 |
| 174 | High-Pressure Synthesis, Structures, and Properties of Trivalent A-Site-Ordered Quadruple Perovskites RMnO (R = Sm, Eu, Gd, and Tb). <i>Inorganic Chemistry</i> , 2018 , 57, 5987-5998 | 5-1 | 15 |
| 173 | Spin-induced multiferroicity in the binary perovskite manganite MnO. <i>Nature Communications</i> , 2018 , 9, 2996 | 17-4 | 27 |
| 172 | Magneto-orbital texture in the perovskite modification of Mn ₂ O ₃ . <i>Physical Review B</i> , 2018 , 98, | 3-3 | 6 |
| 171 | Coupling between Spin and Charge Order Driven by Magnetic Field in Triangular Ising System LuFe ₂ O ₄ . <i>Crystals</i> , 2018 , 8, 88 | 2-3 | 2 |
| 170 | Temperature-Induced Reversible and Irreversible Transitions between Metastable Perovskite Phases in the BiFe _{1-x} ScyO ₃ Solid Solutions. <i>Crystals</i> , 2018 , 8, 91 | 2-3 | 3 |
| 169 | Evolution of Magneto-Orbital order Upon B-Site Electron Doping in Na _{1-x} Ca _x Mn ₇ O ₁₂ Quadruple Perovskite Manganites. <i>Physical Review Letters</i> , 2018 , 120, 257202 | 7-4 | 7 |
| 168 | Helical magnetism in Sr-doped CaMn ₇ O ₁₂ films. <i>Physical Review B</i> , 2018 , 98, | 3-3 | 2 |
| 167 | Evolving spin periodicity and lock-in transition in the frustrated ordered ilmenite-type Mn ₂ InSbO ₆ . <i>Physical Review B</i> , 2018 , 98, | 3-3 | 4 |
| 166 | Dirac multipoles in diffraction by the layered room-temperature antiferromagnets BaMn ₂ P ₂ and BaMn ₂ As ₂ . <i>Physical Review B</i> , 2018 , 98, | 3-3 | 4 |
| 165 | Direct observation of electron density reconstruction at the metal-insulator transition in NaOsO ₃ . <i>Physical Review B</i> , 2018 , 98, | 3-3 | 3 |
| 164 | Vesignieite: An S=1/2 Kagome Antiferromagnet with Dominant Third-Neighbor Exchange. <i>Physical Review Letters</i> , 2018 , 121, 107203 | 7-4 | 16 |
| 163 | Magnetic structures of the rare-earth quadruple perovskite manganites RMn ₇ O ₁₂ . <i>Physical Review B</i> , 2018 , 98, | 3-3 | 15 |
| 162 | Unraveling the complex magnetic structure of multiferroic pyroxene NaFeGe ₂ O ₆ : A combined experimental and theoretical study. <i>Physical Review B</i> , 2018 , 98, | 3-3 | 5 |

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|-----|--|------|----|
| 161 | Understanding the magnetism in noncentrosymmetric CeIrGe ₃ : Muon spin relaxation and neutron scattering studies. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 7 |
| 160 | Intrinsic Triple Order in A-site Columnar-Ordered Quadruple Perovskites: Proof of Concept. <i>ChemPhysChem</i> , 2018 , 19, 2449-2452 | 3.2 | 11 |
| 159 | Uncertainty of oxygen content in highly nonstoichiometric oxides from neutron diffraction data: example of perovskite-type Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3456-3463 | 1.3 | 10 |
| 158 | Phase formation in the (1-y)BiFeO ₃ -yBiScO ₃ system under ambient and high pressure. <i>Journal of Solid State Chemistry</i> , 2017 , 247, 90-96 | 3.3 | 13 |
| 157 | Unusual magnetic structure of the high-pressure synthesized perovskites ACrO ₃ (A=Sc, In, Tl). <i>Physical Review B</i> , 2017 , 95, | 3.3 | 11 |
| 156 | Temperature-induced phase transition from cycloidal to collinear antiferromagnetism in multiferroic Bi _{0.9} Sm _{0.1} FeO ₃ driven by f _B induced magnetic anisotropy. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 16 |
| 155 | Metastable perovskite Bi _{1-x} La _x Fe _{0.5} Sc _{0.5} O ₃ phases in the range of the compositional crossover. <i>Phase Transitions</i> , 2017 , 90, 831-839 | 1.3 | 1 |
| 154 | Evolution of spin correlations in SrDy ₂ O ₄ in an applied magnetic field. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 12 |
| 153 | G-type antiferromagnetic order in the metallic oxide LaCu ₃ Cr ₄ O ₁₂ . <i>Physical Review B</i> , 2017 , 95, | 3.3 | 8 |
| 152 | Phase diagram of multiferroic KCu ₃ As ₂ O ₇ (OD) ₃ . <i>Physical Review B</i> , 2017 , 95, | 3.3 | 5 |
| 151 | Neutron scattering by Dirac multipoles. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 215603 | 1.8 | 4 |
| 150 | Magneto-orbital ordering in the divalent A-site quadruple perovskite manganites AMn ₇ O ₁₂ (A=Sr, Cd, and Pb). <i>Physical Review B</i> , 2017 , 96, | 3.3 | 17 |
| 149 | Reentrant Structural Transitions and Collapse of Charge and Orbital Orders in Quadruple Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10423-10427 | 16.4 | 16 |
| 148 | Incommensurate magnetic order in a quasicubic structure of the double-perovskite compound Sr ₂ NiIrO ₆ . <i>Physical Review B</i> , 2017 , 95, | 3.3 | 6 |
| 147 | Rich magnetoelectric phase diagrams of multiferroic single-crystal NaFeO ₂ . <i>Physical Review B</i> , 2017 , 96, | 3.3 | 4 |
| 146 | MnTeO: a Distorted Inverse Trirutile Structure. <i>Inorganic Chemistry</i> , 2017 , 56, 9742-9753 | 5.1 | 6 |
| 145 | Electronic and magnetic properties of multiferroic ScFeO available from diffraction experiments. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 455604 | 1.8 | 0 |
| 144 | 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 |

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|-----|---|------|----|
| 143 | 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 |
| 142 | Bulk superconductivity at 84 K in the strongly overdoped regime of cuprates. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 20 |
| 141 | Incommensurate spin-density-wave antiferromagnetism in CeRu ₂ Al ₂ B. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 5 |
| 140 | Modulated spin helicity stabilized by incommensurate orbital density waves in a quadruple perovskite manganite. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 22 |
| 139 | Magnetic ordering in pressure-induced phases with giant spin-driven ferroelectricity in multiferroic TbMnO ₃ . <i>Physical Review B</i> , 2016 , 93, | 3.3 | 18 |
| 138 | Long-range antiferromagnetic interactions in Ni-Co-Mn-Ga metamagnetic Heusler alloys: A two-step ordering studied by neutron diffraction. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 9 |
| 137 | Charge ordering in Nd _{2/3} Ca _{1/3} MnO ₃ : ESR and magnetometry study. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 410, 109-115 | 2.8 | 2 |
| 136 | Neutron diffraction and the electronic properties of BaFe ₂ Se ₃ . <i>Physica Scripta</i> , 2016 , 91, 015803 | 2.6 | 9 |
| 135 | Improper Ferroelectric Contributions in the Double Perovskite Pb ₂ Mn _{0.6} Co _{0.4} WO ₆ System with a Collinear Magnetic Structure. <i>Inorganic Chemistry</i> , 2016 , 55, 4381-90 | 5.1 | 5 |
| 134 | Magnetostriction-driven ground-state stabilization in 2H perovskites. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 1 |
| 133 | Magnetic frustration, short-range correlations and the role of the paramagnetic Fermi surface of PdCrO ₂ . <i>Scientific Reports</i> , 2015 , 5, 12428 | 4.9 | 18 |
| 132 | Sc ₂ NiMnO ₆ : A Double-Perovskite with a Magnetodielectric Response Driven by Multiple Magnetic Orders. <i>Inorganic Chemistry</i> , 2015 , 54, 8012-21 | 5.1 | 30 |
| 131 | Ferro-type order of magneto-electric quadrupoles as an order-parameter for the pseudo-gap phase of a cuprate superconductor. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 292201 | 1.8 | 21 |
| 130 | Ferroelectricity induced by ferriaxial crystal rotation and spin helicity in a B-site-ordered double-perovskite multiferroic In ₂ NiMnO ₆ . <i>Physical Review B</i> , 2015 , 91, | 3.3 | 13 |
| 129 | Magnetic ordering and ferroelectricity in multiferroic 2H AgFeO ₂ : Comparison between hexagonal and rhombohedral polytypes. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 13 |
| 128 | High-temperature characterization of oxygen-deficient K ₂ NiF ₄ -type Nd _{2-x} Sr _x NiO ₄ (x = 1.0-1.6) for potential SOFC/SOEC applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23852-23863 | 13 | 19 |
| 127 | Luttinger liquid behavior in the alternating spin-chain system copper nitrate. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 20 |
| 126 | BR and neutron diffraction investigations on the reentrant ferromagnetic superconductor Eu(Fe _{0.86} Ir _{0.14}) ₂ As ₂ . <i>Physical Review B</i> , 2015 , 91, | 3.3 | 15 |

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| 125 | Ordered state of magnetic charge in the pseudo-gap phase of a cuprate superconductor (HgBa ₂ CuO(4+ δ)). <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 495601 | 1.8 | 8 |
| 124 | Antisymmetric exchange in La-substituted BiFe _{0.5} Sc _{0.5} O ₃ system: symmetry adapted distortion modes approach. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015 , 230, 767-774 | 1 | 15 |
| 123 | Contrasting effect of La substitution on the magnetic moment direction in the Kondo semiconductors CeT ₂ Al ₁₀ (T=Ru,Os). <i>Physical Review B</i> , 2015 , 92, | 3.3 | 8 |
| 122 | Tetragonal magnetic phase in Ba _{1-x} K _x Fe ₂ As ₂ from x-ray and neutron diffraction. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 44 |
| 121 | Magnetic structure of an incommensurate phase of La-doped BiFe _{0.5} Sc _{0.5} O ₃ : Role of antisymmetric exchange interactions. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 12 |
| 120 | Anisotropy-Tuned Magnetic Order in Pyrochlore Iridates. <i>Physical Review Letters</i> , 2015 , 114, 247202 | 7.4 | 31 |
| 119 | Antiferromagnetism at T>500K in the layered hexagonal ruthenate SrRu ₂ O ₆ . <i>Physical Review B</i> , 2015 , 92, | 3.3 | 38 |
| 118 | Antiferromagnetic structure in tetragonal CuMnAs thin films. <i>Scientific Reports</i> , 2015 , 5, 17079 | 4.9 | 48 |
| 117 | Exchange bias phenomenon in (Nd _{1-x} Y _x) _{2/3} Ca _{1/3} MnO ₃ (x = 0, 0.1) perovskites. <i>Low Temperature Physics</i> , 2015 , 41, 1001-1005 | 0.7 | 1 |
| 116 | A novel compact three-dimensional laser-sintered collimator for neutron scattering. <i>Review of Scientific Instruments</i> , 2015 , 86, 095114 | 1.7 | 9 |
| 115 | Structural phase transition in La _{2/3} Ba _{1/3} MnO ₃ perovskite: Elastic, magnetic, and lattice anomalies and microscopic mechanism. <i>AIP Advances</i> , 2015 , 5, 077189 | 1.5 | 3 |
| 114 | Two-dimensional charge disproportionation of the unusual high valence state Fe(4+) in a layered double perovskite. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7468-73 | 16.4 | 32 |
| 113 | Field-tunable spin-density-wave phases in Sr ₃ Ru ₂ O ₇ . <i>Nature Materials</i> , 2015 , 14, 373-8 | 27 | 54 |
| 112 | Magnetically driven suppression of nematic order in an iron-based superconductor. <i>Nature Communications</i> , 2014 , 5, 3845 | 17.4 | 133 |
| 111 | Polar and antipolar polymorphs of metastable perovskite BiFe _{0.5} Sc _{0.5} O ₃ . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 42 |
| 110 | Magnetic and ferroelectric orderings in multiferroic BiNaFeO ₂ . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 16 |
| 109 | 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 | 13 |
| 108 | Magnetic order in the frustrated Ising-like chain compound Sr ₃ NiIrO ₆ . <i>Physical Review B</i> , 2014 , 90, | 3.3 | 24 |

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|-----|---|------|-----|
| 107 | Coupling of magnetic order to planar Bi electrons in the anisotropic Dirac metals AMnBi ₂ (A = Sr, Ca). <i>Physical Review B</i> , 2014 , 90, | 3.3 | 60 |
| 106 | Ammonia-rich high-temperature superconducting intercalates of iron selenide revealed through time-resolved in situ X-ray and neutron diffraction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 630-3 | 16.4 | 79 |
| 105 | Pressure-induced polar phases in multiferroic delafossite CuFeO ₂ . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 32 |
| 104 | Complex antipolar 2 \times 2 \times 2 structure with Pnma symmetry in BiFeO ₃ and BiFe _{1/2} Sc _{1/2} O ₃ : First-principles calculations. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 17 |
| 103 | Determination of the crystal and magnetic structure of the DyCrO ₄ -scheelite polymorph by neutron diffraction. <i>Journal of Physics: Conference Series</i> , 2014 , 549, 012021 | 0.3 | 6 |
| 102 | Operational performance characteristics of the WISH detector array on the ISIS spallation neutron source. <i>Journal of Instrumentation</i> , 2014 , 9, C12008-C12008 | 1 | 5 |
| 101 | Magnetic ordering with reduced cerium moments in hole-doped CeOs ₂ Al ₁₀ . <i>Physical Review B</i> , 2014 , 89, | 3.3 | 19 |
| 100 | Anomalous change of the magnetic moment direction by hole doping in CeRu ₂ Al ₁₀ . <i>Physical Review B</i> , 2014 , 90, | 3.3 | 11 |
| 99 | Symmetry of reentrant tetragonal phase in Ba _{1-x} NaxFe ₂ As ₂ : Magnetic versus orbital ordering mechanism. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 25 |
| 98 | Symmetry-protected hidden order and magnetic neutron Bragg diffraction by URu ₂ Si ₂ . <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 046003 | 1.8 | 13 |
| 97 | High-pressure cell for neutron diffraction with in situ pressure control at cryogenic temperatures. <i>Review of Scientific Instruments</i> , 2014 , 85, 043904 | 1.7 | 5 |
| 96 | Tetragonal phase of epitaxial room-temperature antiferromagnet CuMnAs. <i>Nature Communications</i> , 2013 , 4, 2322 | 17.4 | 105 |
| 95 | A ferroelectric-like structural transition in a metal. <i>Nature Materials</i> , 2013 , 12, 1024-7 | 27 | 264 |
| 94 | Highly frustrated magnetism in SrHo ₂ O ₄ : Coexistence of two types of short-range order. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 30 |
| 93 | Field-induced long-range magnetic order in the spin-singlet ground-state system YbAl ₃ C ₃ : Neutron diffraction study. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 14 |
| 92 | Structural, magnetic, and superconducting properties of Ba _{1-x} NaxFe ₂ As ₂ . <i>Physical Review B</i> , 2013 , 88, | 3.3 | 57 |
| 91 | Change of magnetic ground state by light electron doping in CeOs ₂ Al ₁₀ . <i>Physical Review B</i> , 2013 , 88, | 3.3 | 32 |
| 90 | X-ray Diffraction by Magnetic Charges (Monopoles). <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 103703 | 1.5 | 2 |

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