

Giniyat Khaliullin

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mott Insulators in the Strong Spin-Orbit Coupling Limit: From Heisenberg to a Quantum Compass and Kitaev Models. <i>Physical Review Letters</i> , 2009, 102, 017205. | 2.9 | 1,708 |
| 2 | Kitaev-Heisenberg Model on a Honeycomb Lattice: Possible Exotic Phases in Iridium Oxides $A_2\text{IrO}_4$. <i>Physical Review Letters</i> , 2010, 105, 027204. | 2.9 | 847 |
| 3 | Concept and realization of Kitaev quantum spin liquids. <i>Nature Reviews Physics</i> , 2019, 1, 264-280. | 11.9 | 464 |
| 4 | Magnetic Excitation Spectra of Sr_2IrO_7 by Resonant Inelastic X-Ray Scattering: Establishing Links to Cuprate Superconductors. <i>Physical Review Letters</i> , 2012, 108, 177003. | 2.9 | 408 |
| 5 | Zigzag Magnetic Order in the Iridium Oxide Na_2IrO_4 . <i>Physical Review Letters</i> , 2013, 110, 097204. | 2.9 | 405 |
| 6 | Orbital Order and Possible Superconductivity in LaNiO_3 . <i>Physical Review Letters</i> , 2008, 100, 016404. | 2.9 | 331 |
| 7 | Orbital Order and Fluctuations in Mott Insulators. <i>Progress of Theoretical Physics Supplement</i> , 2005, 160, 155-202. | 0.2 | 327 |
| 8 | Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate Na_2IrO_3 . <i>Nature Physics</i> , 2015, 11, 462-466. | 6.5 | 321 |
| 9 | Turning a Nickelate Fermi Surface into a Cupratelike One through Heterostructuring. <i>Physical Review Letters</i> , 2009, 103, 016401. | 2.9 | 229 |
| 10 | Excitonic Magnetism in Van Vleck d^4 Mott Insulators. <i>Physical Review Letters</i> , 2013, 111, 197201. | 2.9 | 216 |
| 11 | Fingerprints of spin-orbital physics in cubic Mott insulators: Magnetic exchange interactions and optical spectral weights. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 153 |
| 12 | Pseudospin exchange interactions in d^7 compounds: Possible realization of the Kitaev model. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 147 |
| 13 | Hidden symmetries of the extended Kitaev-Heisenberg model: Implications for the honeycomb-lattice iridates A_2IrO_4 . <i>Physical Review B</i> , 2015, 92, . | 1.1 | 142 |
| 14 | Higgs mode and its decay in a two-dimensional antiferromagnet. <i>Nature Physics</i> , 2017, 13, 633-637. | 6.5 | 133 |
| 15 | Large Spin-Wave Energy Gap in the Bilayer Iridate $\text{Sr}_3\text{Ir}_2\text{O}_{10}$: Evidence for Enhanced Dipolar Interactions Near the Mott Metal-Insulator Transition. <i>Physical Review Letters</i> , 2012, 109, 157402. | 2.9 | 121 |
| 16 | Excitonic quasiparticles in a spin-orbit Mott insulator. <i>Nature Communications</i> , 2014, 5, 4453. | 5.8 | 118 |
| 17 | Dimensionality Driven Spin-Flop Transition in Layered Iridates. <i>Physical Review Letters</i> , 2012, 109, 037204. | 2.9 | 117 |
| 18 | Kitaev Spin Liquid in d^3 Transition Metal Compounds. <i>Physical Review Letters</i> , 2020, 125, 047201. | 2.9 | 107 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Magnetic anisotropy in the Kitaev model systems Na_2RuCl_3 and Sr_2IrO_7 . Physical Review B, 2012, 85, . | 1.1 | 103 |
| 20 | Magnetic Couplings, Optical Spectra, and Spin-Orbit Exciton in Sr_2IrO_7 . Physical Review Letters, 2012, 109, 167205. | 2.9 | 85 |
| 21 | Order from disorder: Quantum spin gap in magnon spectra of LaTiO_3 . Physical Review B, 2001, 64, . | 1.1 | 82 |
| 22 | Spin-Orbit-Entangled Electronic Phases in $4d$ and $5d$ Transition-Metal Compounds. Journal of the Physical Society of Japan, 2021, 90, 062001. | 0.7 | 75 |
| 23 | Square Lattice Iridates. Annual Review of Condensed Matter Physics, 2019, 10, 315-336. | 5.2 | 74 |
| 24 | Raman Scattering from Higgs Mode Oscillations in the Two-Dimensional Antiferromagnet $\text{Ca}_2\text{RuMn}_2\text{O}_8$. Physical Review Letters, 2017, 119, 067201. | 2.9 | 65 |
| 25 | Intrinsic Coupling of Orbital Excitations to Spin Fluctuations in Mott Insulators. Physical Review Letters, 2011, 107, 147201. | 2.9 | 58 |
| 26 | Low Energy Electronic States and Triplet Pairing in Layered Cobaltate. Physical Review Letters, 2004, 93, 176401. | 2.9 | 57 |
| 27 | Magnetically Hidden Order of Kramers Doublets in $1d$ Systems: Sr_2VO_4 . Physical Review Letters, 2009, 103, 067205. | 2.9 | 56 |
| 28 | Pseudo-Jahn-Teller Effect and Magnetoelastic Coupling in Spin-Orbit Mott Insulators. Physical Review Letters, 2019, 122, 057203. | 2.9 | 55 |
| 29 | Competition between d -wave and topological p -wave superconducting phases in the doped Kitaev-Heisenberg model. Physical Review B, 2012, 85, . | 1.1 | 54 |
| 30 | Theory of orbital state and spin interactions in ferromagnetic titanates. Physical Review B, 2003, 68, . | 1.1 | 51 |
| 31 | Proximate ferromagnetic state in the Kitaev model material $\hat{\Gamma}_2\text{-RuCl}_3$. Nature Communications, 2021, 12, 4512. | 5.8 | 47 |
| 32 | Pseudospin-lattice coupling in the spin-orbit Mott insulator Sr_2IrO_7 . Physical Review B, 2019, 99, . | 2.1 | 46 |
| 33 | Electronic excitations in the edge-shared relativistic Mott insulator: $\text{Na}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2014, 89, . | 1.1 | 40 |
| 34 | Doping-Induced Ferromagnetism and Possible Triplet Pairing in d -Mott Insulators. Physical Review Letters, 2016, 116, 017203. | 2.9 | 36 |
| 35 | Observation of spin-orbit excitations and Hund's multiplets in $\text{Ca}_2\text{RuMn}_2\text{O}_8$. Physical Review B, 2019, 100, . | 1.2 | 34 |
| 36 | Spin waves and spin-state transitions in a ruthenate high-temperature antiferromagnet. Nature Materials, 2019, 18, 563-567. | 13.3 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Spin-State Crossover Model for the Magnetism of Iron Pnictides. <i>Physical Review Letters</i> , 2013, 110, 207205. | 2.9 | 26 |
| 38 | Resonant inelastic x-ray scattering operators for 2-orbital systems. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 26 |
| 39 | Site-Selective Probe of Magnetic Excitations in Rare-Earth Nickelates Using Resonant Inelastic X-ray Scattering. <i>Physical Review X</i> , 2018, 8, . | 2.8 | 26 |
| 40 | Exchange interactions, Jahn-Teller coupling, and multipole orders in pseudospin one-half Mott insulators. <i>Physical Review Research</i> , 2021, 3, . | 2.3 | 18 |
| 41 | Nontrivial Triplon Topology and Triplon Liquid in Kitaev-Heisenberg-type Excitonic Magnets. <i>Physical Review Letters</i> , 2019, 122, 177201. | 2.9 | 17 |
| 42 | Highly frustrated magnetism in relativistic Mott insulators: Bosonic analog of the Kitaev honeycomb model. <i>Physical Review B</i> , 2019, 100, . | 4.1 | 15 |
| 43 | State and Spin-Orbit Excitations in Kitaev Materials. <i>Physical Review Letters</i> , 2021, 127, 227201. | 2.9 | 14 |
| 44 | Unusual Electron Correlations in NaCo ₂ Due to the Spin-State Quasidegeneracy of Cobalt Ions. <i>Progress of Theoretical Physics Supplement</i> , 2008, 176, 50-76. | 0.2 | 11 |
| 45 | Orbital Symmetry and Orbital Excitations in High-Tc Superconductors. <i>Condensed Matter</i> , 2019, 4, 46. | 0.8 | 9 |
| 46 | Effect of electron-lattice coupling on charge and magnetic order in rare-earth nickelates. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 6 |
| 47 | Effects of reduced dimensionality, crystal field, electron-lattice coupling, and strain on the ground state of a rare-earth nickelate monolayer. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 4 |
| 48 | Exchange interactions in Kitaev materials: From Na ₂ IrO ₃ to | 1.1 | 2 |