

Giniyat Khaliullin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Exchange interactions in Kitaev materials: From $\text{Na}_2\text{Ir}_2\text{O}_7$ to $\text{Na}_2\text{Ir}_2\text{O}_7$	1.1	2
2	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
3	Proximate ferromagnetic state in the Kitaev model material Ir_2RuCl_3 . Nature Communications, 2021, 12, 4512.	5.8	47
4	Exchange interactions, Jahn-Teller coupling, and multipole orders in pseudospin one-half Mott insulators. Physical Review Research, 2021, 3, .	2.3	18
5	Effects of reduced dimensionality, crystal field, electron-lattice coupling, and strain on the ground state of a rare-earth nickelate monolayer. Physical Review B, 2021, 104, .	1.1	4
6	Nonmagnetic State and Spin-Orbit Excitations in $\text{K}_2\text{Ir}_2\text{O}_7$	2.9	14
7	Physical Review Letters, 2021, 127, 227201. Effect of electron-lattice coupling on charge and magnetic order in rare-earth nickelates. Physical Review B, 2020, 101, .	1.1	6
8	Kitaev Spin Liquid in $\text{Na}_2\text{Ir}_2\text{O}_7$ Transition Metal Compounds. Physical Review Letters, 2020, 125, 047201.	2.9	107
9	Observation of spin-orbit excitations and Hund's multiplets in $\text{Ca}_2\text{Ir}_2\text{O}_7$	1.1	11
10	Physical Review B, 2019, 100, . Orbital Symmetry and Orbital Excitations in High-Tc Superconductors. Condensed Matter, 2019, 4, 46.	0.8	9
11	Nontrivial Triplon Topology and Triplon Liquid in Kitaev-Heisenberg-type Excitonic Magnets. Physical Review Letters, 2019, 122, 177201.	2.9	17
12	Spin waves and spin-state transitions in a ruthenate high-temperature antiferromagnet. Nature Materials, 2019, 18, 563-567.	13.3	31
13	Concept and realization of Kitaev quantum spin liquids. Nature Reviews Physics, 2019, 1, 264-280.	11.9	464
14	Pseudo-Jahn-Teller Effect and Magnetoelastic Coupling in Spin-Orbit Mott Insulators. Physical Review Letters, 2019, 122, 057203.	2.9	55
15	Pseudospin-lattice coupling in the spin-orbit Mott insulator $\text{Sr}_2\text{Ir}_2\text{O}_7$	1.1	11
16	Physical Review B, 2019, 99, . Highly frustrated magnetism in relativistic Mott insulators: Bosonic analog of the Kitaev honeycomb model. Physical Review B, 2019, 100, .	4.1	15
17	Square Lattice Iridates. Annual Review of Condensed Matter Physics, 2019, 10, 315-336.	5.2	74
18	Pseudospin exchange interactions in 7d compounds: Possible realization of the Kitaev model. Physical Review B, 2018, 97, .	4.1	17

#	ARTICLE	IF	CITATIONS
19	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
20	Higgs mode and its decay in a two-dimensional antiferromagnet. <i>Nature Physics</i> , 2017, 13, 633-637.	6.5	133
21	Raman Scattering from Higgs Mode Oscillations in the Two-Dimensional Antiferromagnet CaCu_2O_7 . <i>Physical Review Letters</i> , 2017, 119, 067201.	2.9	65
22	Resonant inelastic x-ray scattering operators for d -orbital systems. <i>Physical Review B</i> , 2017, 96, .	1.1	26
23	Magnetic anisotropy in the Kitaev model systems Na_2RuCl_3 . <i>Physical Review B</i> , 2016, 94, .	1.1	103
24	Doping-Induced Ferromagnetism and Possible Triplet Pairing in d -Wave Mott Insulators. <i>Physical Review Letters</i> , 2016, 116, 017203.	2.9	36
25	Hidden symmetries of the extended Kitaev-Heisenberg model: Implications for the honeycomb-lattice iridates A_2IrO_6 . <i>Physical Review B</i> , 2015, 92, .	1.1	142
26	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
27	Electronic excitations in the edge-shared relativistic Mott insulator: NaIrO_3 . <i>Physical Review B</i> , 2014, 89, .	1.1	40
28	Excitonic quasiparticles in a spin-orbit Mott insulator. <i>Nature Communications</i> , 2014, 5, 4453.	5.8	118
29	Excitonic Magnetism in Van Vleck d -Wave Mott Insulators. <i>Physical Review Letters</i> , 2013, 111, 197201.	2.9	216
30	Spin-State Crossover Model for the Magnetism of Iron Pnictides. <i>Physical Review Letters</i> , 2013, 110, 207205.	2.9	26
31	Zigzag Magnetic Order in the Iridium Oxide IrO_2 . <i>Physical Review Letters</i> , 2013, 110, 097204.	2.9	405
32	Competition between d -wave and topological p -wave superconducting phases in the doped Kitaev-Heisenberg model. <i>Physical Review B</i> , 2012, 85, .	1.1	54
33	Magnetic Excitation Spectra of Sr_2IrO_7 by Resonant Inelastic X-Ray Scattering: Establishing Links to Cuprate Superconductors. <i>Physical Review Letters</i> , 2012, 109, 167205.	2.9	408
34	Large Spin-Wave Energy Gap in the Bilayer Iridate Ir_2O_7 : Evidence for Enhanced Dipolar Interactions Near the Mott Metal-Insulator Transition. <i>Physical Review Letters</i> , 2012, 109, 037204.	2.9	121
35	Electron Mott Insulator Sr_2IrO_7 . <i>Physical Review Letters</i> , 2012, 109, 167205.	2.9	85
36	Dimensionality Driven Spin-Flop Transition in Layered Iridates. <i>Physical Review Letters</i> , 2012, 109, 037204.	2.9	117

#	ARTICLE	IF	CITATIONS
37	Intrinsic Coupling of Orbital Excitations to Spin Fluctuations in Mott Insulators. Physical Review Letters, 2011, 107, 147201.	2.9	58
38	Kitaev-Heisenberg Model on a Honeycomb Lattice: Possible Exotic Phases in Iridium Oxides A_2IrO_6 . Physical Review Letters, 2010, 105, 027204.	2.9	847
39	Magnetically Hidden Order of Kramers Doublets in 1D Systems: Sr ₂ VO ₄ . Physical Review Letters, 2009, 103, 067205.	2.9	56
40	Turning a Nickelate Fermi Surface into a Cupratelike One through Heterostructuring. Physical Review Letters, 2009, 103, 016401.	2.9	229
41	Mott Insulators in the Strong Spin-Orbit Coupling Limit: From Heisenberg to a Quantum Compass and Kitaev Models. Physical Review Letters, 2009, 102, 017205.	2.9	1,708
42	Unusual Electron Correlations in Na _x CoO ₂ Due to the Spin-State Quasidegeneracy of Cobalt Ions. Progress of Theoretical Physics Supplement, 2008, 176, 50-76.	0.2	11
43	Orbital Order and Possible Superconductivity in LaNiO ₃ . Physical Review Letters, 2008, 100, 016404.	2.9	331
44	Orbital Order and Fluctuations in Mott Insulators. Progress of Theoretical Physics Supplement, 2005, 160, 155-202.	0.2	327
45	Fingerprints of spin-orbital physics in cubic Mott insulators: Magnetic exchange interactions and optical spectral weights. Physical Review B, 2005, 72, .	1.1	153
46	Low Energy Electronic States and Triplet Pairing in Layered Cobaltate. Physical Review Letters, 2004, 93, 176401.	2.9	57
47	Theory of orbital state and spin interactions in ferromagnetic titanates. Physical Review B, 2003, 68, .	1.1	51
48	Order from disorder: Quantum spin gap in magnon spectra of LaTiO ₃ . Physical Review B, 2001, 64, .	1.1	82