

Shubhajyoti Mohapatra

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

71
citations

1478505

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1588992

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docs citations

12
times ranked

74
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic excitations in a three-orbital model for the strongly spin-orbit coupled iridates: Effect of mixing between the J and J' interactions. Physical Review B, 2017, 95, 080402.	3.2	7
2	Magnetic reorientation transition in a three orbital model for Ca_2RuO_4 : Interplay of spin-orbit coupling, tetragonal distortion, and Coulomb interactions. Journal of Physics Condensed Matter, 2020, 32, 485805.	1.8	8
3	Effect of structural distortion on the electronic band structure of NaOsO_3 studied within density functional theory and a three-orbital model. Physical Review B, 2018, 97, 080402.	3.2	7
4	Application to the honeycomb lattice compounds NaOsO_3 and IrO_2 : Spin waves and stability of zigzag order in the Hubbard model with spin-dependent hopping terms. Physical Review B, 2019, 100, 080402.	2.3	7
5	Spin waves in the fcc lattice antiferromagnet: competing interactions, frustration, and instabilities in the Hubbard model. Journal of Applied Physics, 2017, 121, 073903.	2.5	6
6	Octahedral tilting induced isospin reorientation transition in iridate heterostructures. Physical Review B, 2019, 100, .	3.2	6
7	Spin-orbit coupling induced magnetic anisotropy and large spin wave gap in NaOsO_3 . Journal of Physics Communications, 2018, 2, 115016.	1.2	4
8	Correlated motion of particle-hole excitations across the renormalized spin-orbit gap in Sr_2IrO_7 . Journal of Magnetism and Magnetic Materials, 2020, 512, 166997.	2.3	4
9	Multi-orbital quantum antiferromagnetism in iron pnictides: effective spin couplings and quantum corrections to sublattice magnetization. Journal of Physics Condensed Matter, 2016, 28, 366002.	1.8	3
10	Coupled spin-orbital fluctuations in a three orbital model for 4d and 5d oxides with electron fillings $n = 3, 4, 5$: application to NaOsO_3 , Ca_2RuO_4 and Sr_2IrO_7 . Journal of Physics Condensed Matter, 2021, 33, 345803.	1.8	3
11	Role of orbital off-diagonal spin and charge condensates in a three orbital model for Ca_2RuO_4 : Coulomb renormalized spin-orbit coupling, orbital moment, and tunable magnetic order. Journal of Magnetism and Magnetic Materials, 2021, 537, 168172.	2.3	3
12	Pseudo-spin rotation symmetry breaking by Coulomb interaction terms in spin-orbit coupled systems. Journal of Physics Condensed Matter, 2021, 33, 065802.	1.8	3