Shubhajyoti Mohapatra

List of Publications by Year
in descending order

12	71	1478505 6	1588992 8
papers	citations	h-index	g-index

12	12	12	74
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coupled spinâ€“orbital fluctuations in a three orbital model for 4d and 5d oxides with electron fillings n = 3, 4, 5â€”application to NaOsO₃, Ca₂RuO₄ and Sr₂IrO₄. Journal of Physics Condensed Matter, 2021, 33, 345803.	1.8	3
2	Role of orbital off-diagonal spin and charge condensates in a three orbital model for Ca2RuO4 â€“ Coulomb renormalized spin-orbit coupling, orbital moment, and tunable magnetic order. Journal of Magnetism and Magnetic Materials, 2021, 537, 168172.	2.3	3
3	Pseudo-spin rotation symmetry breaking by Coulomb interaction terms in spinâ€“orbit coupled systems. Journal of Physics Condensed Matter, 2021, 33, 065802.	1.8	3
4	Correlated motion of particle-hole excitations across the renormalized spin-orbit gap in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:m mathvariant="normal">IrO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mm Journal of Magnetism and Magnetic Materials, 2020, 512, 166997.	2.3	4
5	Magnetic reorientation transition in a three orbital model for Ca₂RuO₄â€”interplay of spinâ€“orbit coupling, tetragonal distortion, and Coulomb interactions. Journal of Physics Condensed Matter, 2020, 32, 485805.	1.8	8
6	Octahedral tilting induced isospin reorientation transition in iridate heterostructures. Physical Review B, 2019, 100, .	3.2	6
7	Spin waves and stability of zigzag order in the Hubbard model with spin-dependent hopping terms: Application to the honeycomb lattice compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si19.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Na</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:m	2.3	7
8	Effect of structural distortion on the electronic band structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NaOsO</mml:mi><mml:mn>3</mml:mn></mml:msub></ studied within density functional theory and a three-orbital model. Physical Review B, 2018, 97, .	3.2	7
9	Spin-orbit coupling induced magnetic anisotropy and large spin wave gap in NaOsO₃. Journal of Physics Communications, 2018, 2, 115016.	1.2	4
10	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
11	Magnetic excitations in a three-orbital model for the strongly spin-orbit coupled iridates: Effect of mixing between the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>J</mml:mi><mml:mo>=</mml:mo><mml:mfrac xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>3</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m Physical Review B, 2017, 95, .	3.2	17
12	Multi-orbital quantum antiferromagnetism in iron pnictidesâ€”effective spin couplings and quantum corrections to sublattice magnetization. Journal of Physics Condensed Matter, 2016, 28, 366002.	1.8	3