

Trinanjana Datta

List of Publications by Year in descending order

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25
papers

184
citations

1163117

8
h-index

1125743

13
g-index

25
all docs

25
docs citations

25
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin transport in the Néel and collinear antiferromagnetic phase of the two dimensional spatial and spin anisotropic Heisenberg model on a square lattice. European Physical Journal B, 2013, 86, 1.	1.5	27
2	Non-linear spin wave theory results for the frustrated $S=1/2$ Heisenberg antiferromagnet on a body-centered cubic lattice. Journal of Physics Condensed Matter, 2009, 21, 406004.	1.8	17
3	Zero Temperature Phases of the Frustrated J_1 J_2 Antiferromagnetic Spin-1/2 Heisenberg Model on a Simple Cubic Lattice. Journal of Statistical Physics, 2010, 139, 714-726.	1.2	17
4	RKKY range function of a one-dimensional noninteracting electron gas. Physical Review B, 2005, 72, .	3.2	16
5	Spin and quadrupolar orders in the spin-1 bilinear-biquadratic model for iron-based superconductors. Physical Review B, 2016, 93, .	3.2	16
6	Magnetolectric coupling in the multiferroic compound LiCu_2O_4 . Physical Review B, 2009, 79, .	3.2	12
7	Signatures of indirect K -edge resonant inelastic x-ray scattering on magnetic excitations in a triangular-lattice antiferromagnet. Physical Review B, 2015, 92, .	3.2	11
8	Effects of magnetic field, anisotropy, and biquadratic interactions in type-IIA fcc antiferromagnets studied by linear spin-wave theory. Physical Review B, 2012, 85, .	3.2	9
9	Spectrum splitting of bimagnon excitations in a spatially frustrated Heisenberg antiferromagnet revealed by resonant inelastic x-ray scattering. Physical Review B, 2014, 89, .	3.2	8
10	Magnon-phonon coupling effects on the indirect K -edge resonant inelastic x-ray scattering spectrum of a two-dimensional Heisenberg antiferromagnet. Physical Review B, 2017, 96, .	3.2	7
11	1D FFLO state in absence of time reversal symmetry breaking. European Physical Journal B, 2009, 67, 197-208.	1.5	6
12	Spectroscopic signatures of next-nearest-neighbor hopping in the charge and spin dynamics of doped one-dimensional antiferromagnets. Physical Review B, 2020, 102, .	3.2	6
13	Magnetoelastic distortion of multiferroic BiFeO_3 in the canted antiferromagnetic state. Physical Review B, 2020, 102, .	3.2	6
14	The ground state phase diagram of the quantum J_1 J_2 spin-1/2 Heisenberg antiferromagnet on an anisotropic square lattice. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P06022.	2.3	5
15	Einstein-de Haas effect of topological magnons. Physical Review Research, 2021, 3, .	3.6	5
16	Torque equilibrium spin wave theory study of anisotropy and Dzyaloshinskii-Moriya interaction effects on the indirect K -edge RIXS spectrum of a triangular lattice antiferromagnet. Physical Review B, 2019, 100, .	3.2	4
17	Resonant inelastic x-ray scattering study of vector chiral ordered kagome antiferromagnet. Npj Quantum Materials, 2020, 5, .	5.2	3
18	Exact solution and high-temperature series expansion study of the one-fifth-depleted square-lattice Ising model. Physical Review E, 2013, 87, 062143.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Indirect K-edge bimagnon resonant inelastic x-ray scattering spectrum of Γ_{\pm} -FeTe. Journal of Physics Condensed Matter, 2017, 29, 505802.	1.8	2
20	Torque equilibrium spin wave theory of Raman scattering in an anisotropic triangular lattice antiferromagnet with Dzyaloshinskii-Moriya interaction. Physical Review B, 2021, 103, .	3.2	2
21	Detecting Crystallographic Lattice Chirality using Resonant Inelastic X-ray Scattering. Scientific Reports, 2019, 9, 12771.	3.3	1
22	K -edge and L -edge RIXS study of columnar and staggered quantum dimer phases of the square lattice Heisenberg model. Physical Review B, 2020, 101, .	3.2	0
23	Effective curved space-time geometric theory of generic-twist-angle graphene with application to a rotating bilayer configuration. Physical Review B, 2022, 105, .	3.2	1
24	The effects of crustal heterogeneity on ray-based teleseismic imaging. Geophysical Journal International, 2010, , .	2.4	0
25	Topological properties of multilayer magnon insulators. Physical Review B, 2021, 104, .	3.2	0