Nandini Trivedi

List of Publications by Year
in descending order

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73 papers	4,209 citations	126907 33 h-index	106344 65 g-index
73 all docs	73 docs citations	73 times ranked	5129 citing authors

#	Article	IF	Citations
1	The Impact of Structural Distortions on the Magnetism of Double Perovskites Containing 5d¹ Transition-Metal Ions. Chemistry of Materials, 2022, 34, 1098-1109.	6.7	7
2	Gapless to gapless phase transitions in quantum spin chains. Physical Review B, 2022, 105, .	3.2	3
3	Thermal effects on collective modes in disordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math> -wave superconductors. Physical Review B, 2022, 105, .	3.2	2
4	Entanglement dynamics between Ising spins and a central ancilla. Physical Review A, 2022, 105, .	2.5	3
5	Exchange interactions and spin dynamics in the layered honeycomb ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2022, 105, .	3.2	4
6	Metal-to-insulator transition in Pt-doped TiSe2 driven by emergent network of narrow transport channels. Npj Quantum Materials, 2021, 6, .	5.2	10
7	Symmetry analysis of tensors in the honeycomb lattice of edge-sharing octahedra. Physical Review B, 2021, 103, .	3.2	5
8	Thermal chiral anomaly in the magnetic-field-induced ideal Weyl phase of Bi1â^'xSbx. Nature Materials, 2021, 20, 1525-1531.	27.5	34
9	Topological order in Mott insulators. Annals of Physics, 2021, , 168636.	2.8	0
10	Orbital frustration and topological flat bands. Physical Review B, 2021, 104, .	3.2	2
11	Broken Luttinger theorem in the two-dimensional Fermi-Hubbard model. Physical Review B, 2021, 104, .	3.2	4
12	Fundamental Spin Interactions Underlying the Magnetic Anisotropy in the Kitaev Ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CrI</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml Physical Review Letters, 2020, 124, 017201.	7.8	132
13	Topological Magnons with Nodal-Line and Triple-Point Degeneracies: Implications for Thermal Hall Effect in Pyrochlore Iridates. Physical Review Letters, 2020, 125, 047203.	7.8	23
14	Distinct magneto-Raman signatures of spin-flip phase transitions in CrI3. Nature Communications, 2020, 11, 3879.	12.8	59
15	Local Spectroscopies Reveal Percolative Metal in Disordered Mott Insulators. Physical Review Letters, 2020, 124, 137402.	7.8	7
16	Two-particle spectral function for disordered s -wave superconductors: Local maps and collective modes. Physical Review B, 2020, 101, .	3.2	8
17	Magnetic phase transitions in quantum spin-orbital liquids. Physical Review B, 2020, 101, .	3.2	5
18	Spectroscopic fingerprints of many-body renormalization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^' Physical Review B, 2019, 100, .	3.2	8

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19	Magnetic field-induced intermediate quantum spin liquid with a spinon Fermi surface. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12199-12203.	7.1	49
20	Nernst thermopower of time-reversal breaking type-II Weyl semimetals. Physical Review B, 2019, 99, .	3.2	3
21	Local spectroscopies across the superconductor-insulator transition. Physical Review B, 2019, 99, .	3.2	2
22	Signatures of magnetic-field-driven quantum phase transitions in the entanglement entropy and spin dynamics of the Kitaev honeycomb model. Physical Review B, 2019, 99, .	3.2	31
23	Magneto-transport in Fe intercalated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>T</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> : Comparison between <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>T</mml:mi><mml:mo>=</mml:mo><mml:mtext>Ti</mml:mtext></mml:mrow></mml:math> and Ta. Physical Review B, 2019, 99, .	3.2	18
24	Dirac dispersion generates unusually large Nernst effect in Weyl semimetals. Physical Review B, 2018, 97, .	3.2	83
25	Particle-Hole Character of the Higgs and Goldstone Modes in Strongly Interacting Lattice Bosons. Physical Review Letters, 2018, 120, 073201.	7.8	10
26	Disorder induced power-law gaps in an insulatorâ€“metal Mott transition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11198-11202.	7.1	24
27	Fermi arc mediated entropy transport in topological semimetals. Physical Review B, 2018, 97, .	3.2	14
28	Imaging quantum fluctuations near criticality. Nature Physics, 2018, 14, 1205-1210.	16.7	14
29	Minimal models for topological Weyl semimetals. Physical Review B, 2017, 95, .	3.2	77
30	Spin-imbalance in a 2D Fermi-Hubbard system. Science, 2017, 357, 1385-1388.	12.6	118
31	Magnetism out of antisite disorder in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>J</mml:mi><mml:mo>=</mml:mo><mml:mn>0</mml:mn> compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2017, 96, .	3.2	25
32	Localized-itinerant dichotomy and unconventional magnetism in SrRu2O6. Scientific Reports, 2017, 7, 11742.	3.3	13
33	Spectroscopic evidence for a type II Weyl semimetallic state in MoTe2. Nature Materials, 2016, 15, 1155-1160.	27.5	437
34	Entanglement and corner Hamiltonian spectra of integrable open spin chains. Physical Review B, 2016, 94, .	3.2	20
35	Observation of spatial charge and spin correlations in the 2D Fermi-Hubbard model. Science, 2016, 353, 1260-1264.	12.6	254
36	Fragile singlet ground-state magnetism in the pyrochlore osmates<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>R</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>(<mml:math) 3j ETQq0 0 rgBT /O	3.2	15

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37	Spin-induced topological transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrRu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaOs</mml:mi><mml:mn>2</mml:mn></mml:mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	3.2	14
38	Superconductor-Insulator Transition and Fermi-Bose Crossovers. Physical Review X, 2016, 6, .	8.9	23
39	SPIN-ORBIT COUPLING IN OPTICAL LATTICES. Annual Review of Cold Atoms and Molecules, 2015, , 135-179.	2.8	16
40	High antiferromagnetic transition temperature of the honeycomb compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrRu</mml:mi><mml:mn>2</mml:mn></mml:mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	37
41	Temperature-Induced Lifshitz Transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2015, 115, 166602.	7.8	176
42	Theory of Kerr and Faraday rotations and linear dichroism in Topological Weyl Semimetals. Scientific Reports, 2015, 5, 12683.	3.3	93
43	The Higgs mode in disordered superconductors close to a quantum phase transition. Nature Physics, 2015, 11, 188-192.	16.7	137
44	Emergence of coherence in the charge-density wave state of 2H-NbSe2. Nature Communications, 2015, 6, 6313.	12.8	123
45	Observation of antiferromagnetic correlations in the Hubbard model with ultracold atoms. Nature, 2015, 519, 211-214.	27.8	307
46	Compressibility of a Fermionic Mott Insulator of Ultracold Atoms. Physical Review Letters, 2015, 114, 070403.	7.8	53
47	Effect of Coulomb interactions on the disorder-driven superconductor-insulator transition. Physical Review B, 2014, 89, .	3.2	27
48	Dynamical Conductivity across the Disorder-Tuned Superconductor-Insulator Transition. Physical Review X, 2014, 4, .	8.9	47
49	Emergence of a Novel Pseudogap Metallic State in a Disordered 2D Mott Insulator. Physical Review Letters, 2014, 112, .	7.8	51
50	Theory of half-metallic double perovskites. II. Effective spin Hamiltonian and disorder effects. Physical Review B, 2013, 87, .	3.2	45
51	Theory of half-metallic double perovskites. I. Double exchange mechanism. Physical Review B, 2013, 87, .	3.2	59
52	Theory of Strain-Controlled Magnetotransport and Stabilization of the Ferromagnetic Insulating Phase in Manganite Thin Films. Physical Review Letters, 2013, 110, 157201.	7.8	39
53	Defect states and disorder in charge transport in semiconductor nanowires. Journal of Applied Physics, 2013, 114, .	2.5	9
54	Fluctuations and quantum criticality in the twoâ€dimensional Bose Hubbard model. Annalen Der Physik, 2013, 525, L35.	2.4	2

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55	Diagnostic for phases and quantum critical regions using deviations from the local fluctuation-dissipation theorem. Physical Review A, 2012, 86, .	2.5	4
56	Repulsive fermions in optical lattices: Phase separation versus coexistence of antiferromagnetism andd-wave superfluidity. Physical Review A, 2012, 85, .	2.5	1
57	ASPECTS OF LOCALIZATION ACROSS THE 2D SUPERCONDUCTOR-INSULATOR TRANSITION. International Journal of Modern Physics Conference Series, 2012, 11, 22-37.	0.7	3
58	Single- and two-particle energy gaps across the disorder-driven superconductorâ€“insulator transition. Nature Physics, 2011, 7, 884-889.	16.7	177
59	Finite-temperature study of bosons in a two-dimensional optical lattice. Physical Review B, 2011, 84, .	3.2	43
60	Ferromagnetism in the upper branch of the Feshbach resonance and the hard-sphere Fermi gas. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 51-54.	7.1	78
61	Fermions in 2D Optical Lattices: Temperature and Entropy Scales for Observing Antiferromagnetism and Superfluidity. Physical Review Letters, 2010, 104, 066406.	7.8	106
62	Weak Mott insulators on the triangular lattice: Possibility of a gapless nematic quantum spin liquid. Physical Review B, 2010, 81, .	3.2	78
63	ZhouetÂal.Reply:. Physical Review Letters, 2010, 105, .	7.8	8
64	Strong-coupling expansion for the momentum distribution of the Bose-Hubbard model with benchmarking against exact numerical results. Physical Review A, 2009, 79, .	2.5	74
65	Strong correlations make high-temperature superconductors robust against disorder. Nature Physics, 2008, 4, 762-765.	16.7	63
66	The electron shatters. Nature Physics, 2008, 4, 163-164.	16.7	5
67	Sharp peaks in the momentum distribution of bosons in optical lattices in the normalÂstate. Nature Physics, 2008, 4, 617-621.	16.7	79
68	Spectral weight redistribution in strongly correlated bosons in optical lattices. Physical Review B, 2008, 77, .	3.2	71
69	Can Disorder Drive a Mott Insulator into a Metal in 2D?. Progress of Theoretical Physics Supplement, 2005, 160, 296-313.	0.1	3
70	Double-exchange model for noninteracting electron spins coupled to a lattice of classical spins: Phase diagram at zero temperature. Physical Review B, 2005, 72, .	3.2	17
71	Inhomogeneous pairing in highly disordereds-wave superconductors. Physical Review B, 2001, 65, .	3.2	273
72	Role of Spatial Amplitude Fluctuations in Highly Disordereds-Wave Superconductors. Physical Review Letters, 1998, 81, 3940-3943.	7.8	237

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73	Superconductor-insulator transition in a disordered electronic system. Physical Review B, 1996, 54, R3756-R3759.	3.2	113