

A T M Nazmul Islam

List of Publications by Year in descending order

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70
papers

1,261
citations

394421

19
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395702

33
g-index

72
all docs

72
docs citations

72
times ranked

1411
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical realization of a quantum spin liquid based on a complex frustration mechanism. Nature Physics, 2016, 12, 942-949.	16.7	115
2	Spin and orbital order in the vanadium spinel MgV_2O_7 . Physical Review B, 2010, 82, .	3.2	91
3	Experimental observation of Bethe strings. Nature, 2018, 554, 219-223.	27.8	84
4	Spinon confinement in a quasi-one-dimensional anisotropic Heisenberg magnet. Physical Review B, 2017, 96, .	3.2	69
5	Pure Bi_2O_3 Photoelectrodes with Increased Stability by Rapid Thermal Processing of $\text{Bi}_2\text{O}_3/\text{CuO}$ Grown by Pulsed Laser Deposition. Advanced Functional Materials, 2020, 30, 1910832.	14.9	54
6	Evidence for a three-dimensional quantum spin liquid in $\text{PbCuTe}_2\text{O}_6$. Nature Communications, 2020, 11, 2348.	12.8	53
7	Spinon confinement in the one-dimensional Ising-like antiferromagnet $\text{SrCo}_2\text{V}_2\text{O}_{10}$. Field-induced magnetic ordering and single-ion anisotropy in the quasi-one-dimensional Haldane chain compound $\text{SrNi}_2\text{V}_2\text{O}_{10}$. Physical Review B, 2010, 81, .	3.2	49
8	Magnetic excitations of the gapped quantum spin dimer antiferromagnet $\text{Sr}_3\text{Ca}_2\text{Cr}_2\text{O}_{14}$. Physical Review B, 2010, 81, .	3.2	46
9	Physical properties of the candidate quantum spin-ice system $\text{Pr}_2\text{Hf}_2\text{O}_7$. Physical Review B, 2016, 94, .	3.2	36
10	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. Physical Review B, 2016, 94, .	3.2	35
11	Coexistence of long- and short-range magnetic order in the frustrated magnet SrYbO_4 . Physical Review B, 2012, 86, .	3.2	34
12	Dispersions of many-body Bethe strings. Nature Physics, 2020, 16, 625-630.	16.7	29
13	Magnetic Soft Modes in the Distorted Triangular Antiferromagnet CaCr_2O_4 . Physical Review Letters, 2012, 109, 127203.	7.8	26
14	Helical magnetic order in the distorted triangular antiferromagnet CaCr_2O_4 . Physical Review B, 2012, 86, .	3.2	25
15	Orbital fluctuations and orbital order below the Jahn-Teller transition in $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review B, 2011, 83, .	3.2	20
16	Magnetic Hamiltonian and phase diagram of the quantum spin liquid Ca_2O_{28} . Physical Review B, 2017, 95, .	3.2	20
17	Asymmetric Thermal Line Shape Broadening in a Gapped 3D Antiferromagnet: Evidence for Strong Correlations at Finite Temperature. Physical Review Letters, 2012, 109, 127206.	7.8	19

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19	Evolution of antiferromagnetic domains in the all-in-all-out ordered pyrochlore Nd_2O_7 . Physical Review B, 2017, 95, .	3.2	19
20	Consequences of critical interchain couplings and anisotropy on a Haldane chain. Physical Review B, 2015, 91, .	3.2	18
21	Order out of a Coulomb Phase and Higgs Transition: Frustrated Transverse Interactions of Nd_2O_7 . Physical Review Letters, 2020, 124, 097203.	3.2	18
22	Optical Floating-Zone Growth of Large Single Crystal of Spin Half Dimer $\text{Sr}_3\text{Cr}_2\text{O}_8$. Crystal Growth and Design, 2010, 10, 465-468.	3.0	17
23	Magnetic excitations in the chain compound $\text{BaCu}_2\text{V}_2\text{O}_8$. Physical Review B, 2017, 96, .	3.2	17
24	Anisotropic exchange Hamiltonian, magnetic phase diagram, and domain inversion of Nd_2O_7 . Physical Review B, 2019, 99, .	3.2	15
25	$\text{BaNi}_2\text{V}_2\text{O}_8$ with easy-plane anisotropy. Physical Review B, 2017, 96, .	3.2	14
26	Coupled spin-lattice fluctuations in a compound with orbital degrees of freedom: The Cr-based dimer system $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review B, 2011, 84, .	3.2	13
27	High-resolution spin resonance spectroscopy of singlet-triplet transitions in the spin-dimer systems $\text{Sr}_3\text{Cr}_2\text{O}_8$ and Cr_2O_8 . Physical Review B, 2014, 89, .	3.2	13
28	Field-Induced Magnonic Liquid in the 3D Spin-Dimerized Antiferromagnet $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review Letters, 2016, 116, 147201.	7.8	13
29	Crystal growth, structure and magnetic properties of $\text{Ca}_{10}\text{Cr}_7\text{O}_{28}$. Journal of Physics Condensed Matter, 2017, 29, 225802.	1.8	13
30	Growth and magnetic properties of stoichiometric and site-disordered single crystalline MgV_2O_4 . Physical Review B, 2012, 85, .	3.2	12
31	Exciton-magnon transitions in the frustrated chromium antiferromagnets CuCrO and CaCr_2O_7 . Physical Review B, 2014, 89, .	3.2	12
32	Inverted hysteresis and negative remanence in a homogeneous antiferromagnet. Physical Review B, 2018, 98, .	3.2	12
33	Multiple lattice instabilities resolved by magnetic-field and disorder sensitivities in MgV_2O_4 . Physical Review B, 2014, 90, .	3.2	11
34	Field-induced quantum spin-12 chains and disorder in $\text{Nd}_2\text{Zr}_2\text{O}_7$. Physical Review B, 2018, 98, .	3.2	11
35	Softened magnetic excitations in the CaCr_2O_7 distorted triangular antiferromagnet. Journal of Physics Condensed Matter, 2012, 24, 435604.	1.8	10
36	Lineshape of the singlet-triplet excitations in the dimer system $\text{Sr}_3\text{Cr}_2\text{O}_8$ to first order in the high-density limit. Physical Review B, 2014, 89, .	3.2	10

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37	Absorption Enhancement for Ultrathin Solar Fuel Devices with Plasmonic Gratings. ACS Applied Energy Materials, 2018, 1, 5810-5815.	5.1	10
38	Enhanced spin correlations in the Bose-Einstein condensate compound $Sr_{3/8}O$. Physical Review B, 2020, 102, 104411.	3.2	10
39	Low-energy magnetic excitations in the quasi-one-dimensional spin-1 chain compound $SrNi_2V_2O_{10}$. Physical Review B, 2020, 102, 104412.	3.2	9
40	Low-energy magnetic excitations in the quasi-one-dimensional spin-1 chain compound $SrNi_2V_2O_{10}$. Physical Review B, 2020, 102, 104412.	3.2	9
41	Eliashberg Spectral Functions for Some High-Tc Superconductors. Journal of Superconductivity and Novel Magnetism, 2000, 13, 559-564.	0.5	8
42	AgB2: Superconductivity and the role of paramagnons. Physica C: Superconductivity and Its Applications, 2007, 466, 76-81.	1.2	8
43	Thermodynamics of Meissner effect and flux pinning behavior in the bulk of single-crystal La_2CuO_4 .		

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55	Signatures for spinons in the quantum spin liquid candidate $\text{Ca}_{10}\text{Mn}_{28}\text{O}_{105}$. Physical Review B, 2019, 100, .	3.2	5
56	Crystal growth, characterization, and phase transition of $\text{PbCuTe}_2\text{O}_6$. Physical Review Materials, 2021, 5, .	2.4	5
57	Phonon excitations in the quasi-one-dimensional Haldane phase of SrNi_2VO_8 . Low Temperature Physics, 2017, 43, 1405-1414.	0.6	4
58	Growth and superconducting properties of $(\text{Eu,R})\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ (R = Er, Tm) single-crystalline whiskers. Superconductor Science and Technology, 2005, 18, 1238-1243.	3.5	3
59	Growth and characterization of Ca doped Eu-123 whiskers for intrinsic Josephson junction applications. Superconductor Science and Technology, 2006, 19, 290-293.	3.5	3
60	Structural and magnetic properties of the quantum magnet $\text{BaCuTe}_2\text{O}_6$. Physical Review B, 2021, 103, .	3.2	3
61	Weak three-dimensional coupling of Heisenberg quantum spin chains in $\text{SrCuTe}_2\text{O}_6$. Physical Review B, 2021, 104, .	3.2	3
62	Temperature dependent polarized XANES spectra for Zn-doped LSCO system. Physica C: Superconductivity and Its Applications, 2002, 378-381, 78-83.	1.2	2
63	Possible experimental signature of charge-orbital density waves in $\text{Nd}_{1-x}\text{Ca}_x\text{MnO}_4$: Heat capacity and magnetization study. Physical Review B, 2007, 75, .	3.2	2
64	Non-Abelian statistics in light-scattering processes across interacting Haldane chains. Physical Review B, 2021, 104, .	3.2	2
65	Macroscopic quantum tunneling and phase diffusion in a La_2CuO_4 single crystal. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1302-1305.	3.2	1
66	Ultrasound velocity measurements in orbital-degenerate frustrated spinel MgV_2O_4 . Journal of Physics: Conference Series, 2015, 592, 012107.	0.4	1
67	MODELING OF ELIASHBERG SPECTRAL FUNCTIONS FOR HIGH- T_c SUPERCONDUCTORS. , 2000, .		0
68	Effect of substrates on superconductivity and composition of the IR-LPE $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ single crystalline films. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1302-1305.	1.2	0
69	Superconductor-insulator phase transition in single-crystal $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ films grown by the liquid-phase epitaxy method. Physical Review B, 2009, 80, .	3.2	0
70	Observation of macroscopic quantum tunneling in La_2CuO_4 intrinsic Josephson Junctions. Journal of Physics: Conference Series, 2009, 150, 052132.	0.4	0