

# A T M Nazmul Islam

## List of Publications by Year in descending order

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70  
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citations

394421

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Structural and magnetic properties of the quantum magnet BaCuTe <sub>2</sub> O <sub>6</sub> . Physical Review B, 2021, 103, .	3.2	3
2	Signatures for Berezinskii-Kosterlitz-Thouless critical behavior in the planar antiferromagnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{BaNi} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle V \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle . \text{Physical Review B, 2021, 104, . <td>3.2</td> <td>6</td>	3.2	6
3	Weak three-dimensional coupling of Heisenberg quantum spin chains in <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{SrCuTe} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:math} \rangle . \text{Physical Review B, 2021, 104, . <td>3.2</td> <td>3</td>	3.2	3
4	Non-Abelian statistics in light-scattering processes across interacting Haldane chains. Physical Review B, 2021, 104, .	3.2	2
5	Crystal growth, characterization, and phase transition of <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{PbCuTe} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle . \text{Physical Review Materials, 2021, 5, . <td>2.4</td> <td>5</td>	2.4	5
6	Spin liquid and ferroelectricity close to a quantum critical point in PbCuTe <sub>2</sub> O <sub>6</sub> . Npj Quantum Materials, 2021, 6, .	5.2	6
7	Enhanced spin correlations in the Bose-Einstein condensate compound <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Sr} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle . \text{Physical Review B, 2020, 102, . <td>3.2</td> <td>10</td>	3.2	10
8	Evidence for a three-dimensional quantum spin liquid in PbCuTe <sub>2</sub> O <sub>6</sub> . Nature Communications, 2020, 11, 2348.	12.8	53
9	Pure CuBi <sub>2</sub> O <sub>4</sub> Photoelectrodes with Increased Stability by Rapid Thermal Processing of Bi <sub>2</sub> O <sub>3</sub> /CuO Grown by Pulsed Laser Deposition. Advanced Functional Materials, 2020, 30, 1910832.	14.9	54
10	Order out of a Coulomb Phase and Higgs Transition: Frustrated Transverse Interactions of <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \text{Nd} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle . \text{Physical Review Letters, 2020, 124, 097203. <td>3.2</td> <td>15</td>	3.2	15
11	Dispersions of many-body Bethe strings. Nature Physics, 2020, 16, 625-630.	16.7	29
12	Magnetic structure of the quantum magnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mi} \text{SrCu} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \text{Te} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:math} \rangle . \text{Physical Review B, 2020, 102, . <td>3.2</td> <td>8</td>	3.2	8
13	Anisotropic exchange Hamiltonian, magnetic phase diagram, and domain inversion of <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Nd} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle . \text{Physical Review B, 2019, 99, . <td>3.2</td> <td>15</td>	3.2	15
14	Signatures for spinons in the quantum spin liquid candidate <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Ca} \langle \text{mml:mn} \rangle 10 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mn} \rangle 28 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle . \text{Physical Review B, 2019, 100, . <td>3.2</td> <td>5</td>	3.2	5
15	Experimental observation of Bethe strings. Nature, 2018, 554, 219-223.	27.8	84
16	Inverted hysteresis and negative remanence in a homogeneous antiferromagnet. Physical Review B, 2018, 98, .	3.2	12
17	Absorption Enhancement for Ultrathin Solar Fuel Devices with Plasmonic Gratings. ACS Applied Energy Materials, 2018, 1, 5810-5815.	5.1	10
18	Hamiltonian of the <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} \langle \text{mml:mi} \text{S} \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mfrac} \langle \text{mml:mrow} \langle \text{mml:mi} \text{dimerized antiferromagnetic-ferromagnetic quantum spin chain} \langle \text{mml:math} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{BaCu} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle V \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle . \text{Physical Review B, 2018, 98, . <td>3.2</td> <td>6</td>	3.2	6

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19	Optimization of single crystal growth of candidate quantum spin-ice Pr <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> by optical floating-zone method. Journal of Crystal Growth, 2018, 498, 124-129.	1.5	7
20	Field-induced quantum spin-1/2 chains and disorder in Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> . Physical Review B, 2018, 98, .	3.2	11
21	Crystal growth, structure and magnetic properties of Ca <sub>10</sub> Cr <sub>7</sub> O <sub>28</sub> . Journal of Physics Condensed Matter, 2017, 29, 225802.	1.8	13
22	Thermodynamics of Meissner effect and flux pinning behavior in the bulk of single-crystal $\text{La}_{2-x}\text{Pr}_x\text{CuO}_4$		

#	ARTICLE	IF	CITATIONS
37	Multiple lattice instabilities resolved by magnetic-field and disorder sensitivities in MgV <sub>2</sub> O <sub>4</sub> . Physical Review B, 2014, 90, .	3.2	11
38	Lineshape of the singlet-triplet excitations in the dimer system Sr <sub>3</sub> Cr <sub>2</sub> O <sub>8</sub> to first order in the high-density expansion. Physical Review B, 2014, 89, .	3.2	10
39	Low-energy magnetic excitations in the quasi-one-dimensional spin-1 chain compound SrNi <sub>2</sub> VO <sub>4</sub> . Physical Review B, 2014, 89, .	3.2	13
40	Low-energy magnetic excitations in the quasi-one-dimensional Haldane chain compound SrNi <sub>2</sub> VO <sub>4</sub> . Physical Review B, 2014, 89, .	3.2	9
41	Exciton-magnon transitions in the frustrated chromium antiferromagnets CuCrO <sub>2</sub> and SrCr <sub>2</sub> VO <sub>8</sub> . Physical Review B, 2012, 86, .	3.2	46
42	Exciton-magnon transitions in the frustrated chromium antiferromagnets CuCrO <sub>2</sub> and SrCr <sub>2</sub> VO <sub>8</sub> . Physical Review B, 2012, 86, .	3.2	12
43	Growth and magnetic properties of stoichiometric and site-disordered single crystalline MgV <sub>2</sub> O <sub>4</sub> . Physical Review B, 2012, 85, .	3.2	1
44	Growth and magnetic properties of stoichiometric and site-disordered single crystalline MgV <sub>2</sub> O <sub>4</sub> . Physical Review B, 2012, 85, .	3.2	12
45	Coexistence of long- and short-range magnetic order in the frustrated magnet SrYb <sub>2</sub> VO <sub>4</sub> . Physical Review B, 2012, 86, .	3.2	34
46	Magnetic Soft Modes in the Distorted Triangular Antiferromagnet Sr <sub>2</sub> CaCr <sub>2</sub> O <sub>4</sub> . Physical Review Letters, 2012, 109, 127203.	7.8	26
47	Softened magnetic excitations in the distorted triangular antiferromagnet Sr <sub>2</sub> CaCr <sub>2</sub> O <sub>4</sub> . Journal of Physics Condensed Matter, 2012, 24, 435604.	1.8	10
48	Macroscopic quantum tunneling and phase diffusion in a La <sub>2</sub> VO <sub>4</sub> single crystal. Physical Review Letters, 2012, 109, 127206.	3.2	9
49	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
50	Helical magnetic order in the distorted triangular antiferromagnet Sr <sub>2</sub> CaCr <sub>2</sub> O <sub>4</sub> . Physical Review Letters, 2012, 109, 127203.	3.2	25
51	Unconventional Growth Mechanism in Optical Traveling Solvent Floating Zone Growth of Large Single Crystals. Crystal Growth and Design, 2011, 11, 154-157.	3.0	5
52	Coupled spin-lattice fluctuations in a compound with orbital degrees of freedom: The Cr-based dimer system Sr <sub>3</sub> Cr <sub>2</sub> O <sub>8</sub> . Physical Review B, 2011, 84, .	3.2	13
53	Orbital fluctuations and orbital order below the Jahn-Teller transition in Sr <sub>3</sub> Cr <sub>2</sub> O <sub>8</sub> . Physical Review B, 2011, 83, .	3.2	20
54	Fabrication of submicron La <sub>2</sub> VO <sub>4</sub> /Sr <sub>x</sub> CuO <sub>4</sub> intrinsic Josephson junction stacks. Journal of Applied Physics, 2011, 109, 033912.	2.5	5

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55	Spin and orbital order in the vanadium spinel Physical Review B, 2010, 82, .	3.2	91
56	Optical Floating-Zone Growth of Large Single Crystal of Spin Half Dimer Sr <sub>3</sub> Cr <sub>2</sub> O <sub>8</sub> . Crystal Growth and Design, 2010, 10, 465-468.	3.0	17
57	Magnetic excitations of the gapped quantum spin dimer antiferromagnet Physical Review B, 2010, 81, .	3.2	41
58	Superconductor-insulator phase transition in single-crystal La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> films grown by the liquid-phase epitaxy method. Physical Review B, 2009, 80, .	3.2	0
59	Observation of macroscopic quantum tunneling in La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> intrinsic Josephson Junctions. Journal of Physics: Conference Series, 2009, 150, 052132.	0.4	0
60	Intrinsic Josephson properties of. Physica C: Superconductivity and Its Applications, 2008, 468, 1922-1924.	1.2	5
61	Possible experimental signature of charge-orbital density waves in Nd <sub>1-x</sub> Ca <sub>1+x</sub> MnO <sub>4</sub> : Heat capacity and magnetization study. Physical Review B, 2007, 75, .	3.2	2
62	AgB <sub>2</sub> : Superconductivity and the role of paramagnons. Physica C: Superconductivity and Its Applications, 2007, 466, 76-81.	1.2	8
63	Growth mechanism of EuBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> single-crystalline whiskers from Ca and Te doped precursors. Journal of Crystal Growth, 2006, 289, 192-196.	1.5	5
64	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
65	Growth and superconducting properties of (Eu,R)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> (R = Er, Tm) single-crystalline whiskers. Superconductor Science and Technology, 2005, 18, 1238-1243.	3.5	3
66	Effect of substrates on superconductivity and composition of the IR-LPE La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> single crystalline films. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1302-1305.	1.2	0
67	Growth of Bi-2212 single crystals by the travelling solvent zone melting method. Superconductor Science and Technology, 2002, 15, 458-461.	3.5	6
68	Temperature dependent polarized XANES spectra for Zn-doped LSCO system. Physica C: Superconductivity and Its Applications, 2002, 378-381, 78-83.	1.2	2
69	MODELING OF ELIASHBERG SPECTRAL FUNCTIONS FOR HIGH-T <sub>c</sub> SUPERCONDUCTORS. , 2000, , .		0
70	Eliashberg Spectral Functions for Some High-T <sub>c</sub> Superconductors. Journal of Superconductivity and Novel Magnetism, 2000, 13, 559-564.	0.5	8