

Tanmoy Ghosh

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30 papers	784 citations	14 h-index	27 g-index
33 ext. papers	1,167 ext. citations	10.7 avg, IF	4.86 L-index

#	Paper	IF	Citations
30	Metavalent Bonding in GeSe Leads to High Thermoelectric Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10350-10358	16.4	21
29	Metavalent Bonding in GeSe Leads to High Thermoelectric Performance. <i>Angewandte Chemie</i> , 2021 , 133, 10438-10446	3.6	5
28	Evidence of Highly Anharmonic Soft Lattice Vibrations in a Zintl Rattler. <i>Angewandte Chemie</i> , 2021 , 133, 4305-4311	3.6	3
27	Evidence of Highly Anharmonic Soft Lattice Vibrations in a Zintl Rattler. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4259-4265	16.4	10
26	High-performance thermoelectrics based on metal selenides 2021 , 217-246		1
25	Enhanced atomic ordering leads to high thermoelectric performance in AgSbTe. <i>Science</i> , 2021 , 371, 722-723	33.3	110
24	High-Performance Thermoelectric Energy Conversion: A Tale of Atomic Ordering in AgSbTe ₂ . <i>ACS Energy Letters</i> , 2021 , 6, 2825-2837	20.1	11
23	Layered materials with 2D connectivity for thermoelectric energy conversion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12226-12261	13	38
22	Ferroelectric Instability Induced Ultralow Thermal Conductivity and High Thermoelectric Performance in Rhombohedral -Type GeSe Crystal. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12237-12244	16.4	36
21	Highly Converged Valence Bands and Ultralow Lattice Thermal Conductivity for High-Performance SnTe Thermoelectrics. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11115-11122	16.4	41
20	Highly Converged Valence Bands and Ultralow Lattice Thermal Conductivity for High-Performance SnTe Thermoelectrics. <i>Angewandte Chemie</i> , 2020 , 132, 11208-11215	3.6	4
19	Reply to the Comment on "Investigation on the structure and thermoelectric properties of CuTe binary compounds" by A. H. Barajas-Aguilar, A. M. Garay-Tapia, and S. J. Jiménez-Sandoval, Dalton Trans., 2020, 49, DOI: 10.1039/C9DT03607E. <i>Dalton Transactions</i> , 2020 , 49, 5738-5740	4.3	
18	Intrinsically Ultralow Thermal Conductivity in Ruddlesden-Popper 2D Perovskite CsPbCl ₃ : Localized Anharmonic Vibrations and Dynamic Octahedral Distortions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15595-15603	16.4	44
17	Electronic structure modulation strategies in high-performance thermoelectrics. <i>APL Materials</i> , 2020 , 8, 040910	5.7	28
16	Broadband Colossal Dielectric Constant in the Superionic Halide RbAg ₄ I ₅ : Role of Intercluster Ag ⁺ Diffusion. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9802-9809	3.8	4
15	Investigation on the structure and thermoelectric properties of CuTe binary compounds. <i>Dalton Transactions</i> , 2019 , 48, 1040-1050	4.3	20
14	Effect of Annealing on the Structural and Magnetic Properties of CoNiAl FSMA. <i>Crystal Research and Technology</i> , 2019 , 54, 1800153	1.3	1

13	Engineering ferroelectric instability to achieve ultralow thermal conductivity and high thermoelectric performance in $\text{Sn}_{1-x}\text{Ge}_x\text{Te}$. <i>Energy and Environmental Science</i> , 2019 , 12, 589-595	35.4	103
12	Ultrathin Free-Standing Nanosheets of BiOSe : Room Temperature Ferroelectricity in Self-Assembled Charged Layered Heterostructure. <i>Nano Letters</i> , 2019 , 19, 5703-5709	11.5	57
11	Realization of High Thermoelectric Figure of Merit in GeTe by Complementary Co-doping of Bi and In. <i>Joule</i> , 2019 , 3, 2565-2580	27.8	96
10	Realization of Both n- and p-Type GeTe Thermoelectrics: Electronic Structure Modulation by AgBiSe Alloying. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19505-19512	16.4	46
9	Magnetic properties of disordered interacting electron system $\text{FeAl}_{2-x}\text{Ga}_x$ ($0 \leq x \leq 0.5$): Origin of local moment behaviour and the stabilization of an antiferromagnetic phase by weak interplanar magnetic interaction. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 915-926	5.7	1
8	Stabilizing n-Type Cubic GeSe by Entropy-Driven Alloying of AgBiSe : Ultralow Thermal Conductivity and Promising Thermoelectric Performance. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15167-15171	16.4	40
7	Stabilizing n-Type Cubic GeSe by Entropy-Driven Alloying of AgBiSe_2 : Ultralow Thermal Conductivity and Promising Thermoelectric Performance. <i>Angewandte Chemie</i> , 2018 , 130, 15387-15391	3.6	16
6	Concomitant antiferromagnetic transition and disorder-induced weak localization in an interacting electron system. <i>Physical Review B</i> , 2017 , 95,	3.3	5
5	Structural and magnetic properties of $\text{Mn}_{50}\text{Fe}_{50-x}\text{Sn}_x$ ($x=10, 15$ and 20) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 418, 260-264	2.8	5
4	Effects of chemical ordering and composition on the magnetic properties of disordered FeAl alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 583-587	5.7	8
3	Interesting magnetic behavior of Fe:Al disordered alloys. <i>Physica B: Condensed Matter</i> , 2014 , 448, 226-228	2.8	3
2	Effect of short range ordering on the magnetism in disordered Fe:Al alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 613, 306-311	5.7	7
1	Electronic and magnetic properties of disordered AuCr alloys: A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 332, 199-204	2.8	