Tanmoy Ghosh

List of Publications by Citations

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	Enhanced atomic ordering leads to high thermoelectric performance in AgSbTe. *Science*, **2021**, 371, 722-727	33.3	110
29	Engineering ferroelectric instability to achieve ultralow thermal conductivity and high thermoelectric performance in Sn1□GexTe. *Energy and Environmental Science*, **2019**, 12, 589-595	35.4	103
28	Realization of High Thermoelectric Figure´of Merit in GeTe by Complementary Co-doping of Bi and In. *Joule*, **2019**, 3, 2565-2580	27.8	96
27	Ultrathin Free-Standing Nanosheets of BiOSe: Room Temperature Ferroelectricity in Self-Assembled Charged Layered Heterostructure. *Nano Letters*, **2019**, 19, 5703-5709	11.5	57
26	Realization of Both n- and p-Type GeTe Thermoelectrics: Electronic Structure Modulation by AgBiSe Alloying. *Journal of the American Chemical Society*, **2019**, 141, 19505-19512	16.4	46
25	Intrinsically Ultralow Thermal Conductivity in Ruddlesden-Popper 2D Perovskite CsPbICl: Localized Anharmonic Vibrations and Dynamic Octahedral Distortions. *Journal of the American Chemical Society*, **2020**, 142, 15595-15603	16.4	44
24	Highly Converged Valence Bands and Ultralow Lattice Thermal Conductivity for High-Performance SnTe Thermoelectrics. *Angewandte Chemie - International Edition*, **2020**, 59, 11115-11122	16.4	41
23	Stabilizing n-Type Cubic GeSe by Entropy-Driven Alloying of AgBiSe : Ultralow Thermal Conductivity and Promising Thermoelectric Performance. *Angewandte Chemie - International Edition*, **2018**, 57, 15167-15171	16.4	40
22	Layered materials with 2D connectivity for thermoelectric energy conversion. *Journal of Materials Chemistry A*, **2020**, 8, 12226-12261	13	38
21	Ferroelectric Instability Induced Ultralow Thermal Conductivity and High Thermoelectric Performance in Rhombohedral -Type GeSe Crystal. *Journal of the American Chemical Society*, **2020**, 142, 12237-12244	16.4	36
20	Electronic structure modulation strategies in high-performance thermoelectrics. *APL Materials*, **2020**, 8, 040910	5.7	28
19	Metavalent Bonding in GeSe Leads to High Thermoelectric Performance. *Angewandte Chemie - International Edition*, **2021**, 60, 10350-10358	16.4	21
18	Investigation on the structure and thermoelectric properties of CuTe binary compounds. *Dalton Transactions*, **2019**, 48, 1040-1050	4.3	20
17	Stabilizing n-Type Cubic GeSe by Entropy-Driven Alloying of AgBiSe2: Ultralow Thermal Conductivity and Promising Thermoelectric Performance. *Angewandte Chemie*, **2018**, 130, 15387-15391	3.6	16
16	High-Performance Thermoelectric Energy Conversion: A Tale of Atomic Ordering in AgSbTe2. *ACS Energy Letters*, **2021**, 6, 2825-2837	20.1	11
15	Evidence of Highly Anharmonic Soft Lattice Vibrations in a Zintl Rattler. *Angewandte Chemie - International Edition*, **2021**, 60, 4259-4265	16.4	10
14	Effects of chemical ordering and composition on the magnetic properties of disordered FeAl alloys. *Journal of Alloys and Compounds*, **2015**, 639, 583-587	5.7	8

List of Publications

13	Effect of short range ordering on the magnetism in disordered Fe:Al alloy. *Journal of Alloys and Compounds*, **2014**, 613, 306-311	5.7	7
12	Concomitant antiferromagnetic transition and disorder-induced weak localization in an interacting electron system. *Physical Review B*, **2017**, 95,	3.3	5
11	Structural and magnetic properties of Mn50Fe50−xSnx (x=10, 15 and 20) alloys. *Journal of Magnetism and Magnetic Materials*, **2016**, 418, 260-264	2.8	5
10	Metavalent Bonding in GeSe Leads to High Thermoelectric Performance. *Angewandte Chemie*, **2021**, 133, 10438-10446	3.6	5
9	Highly Converged Valence Bands and Ultralow Lattice Thermal Conductivity for High-Performance SnTe Thermoelectrics. *Angewandte Chemie*, **2020**, 132, 11208-11215	3.6	4
8	Broadband Colossal Dielectric Constant in the Superionic Halide RbAg4I5: Role of Intercluster Ag+ Diffusion. *Journal of Physical Chemistry C*, **2020**, 124, 9802-9809	3.8	4
7	Interesting magnetic behavior of Fe:Al disordered alloys. *Physica B: Condensed Matter*, **2014**, 448, 226-228	2.8	3
6	Evidence of Highly Anharmonic Soft Lattice Vibrations in a Zintl Rattler. *Angewandte Chemie*, **2021**, 133, 4305-4311	3.6	3
5	Effect of Annealing on the Structural and Magnetic Properties of CoNiAl FSMA. *Crystal Research and Technology*, **2019**, 54, 1800153	1.3	1
4	Magnetic properties of disordered interacting electron system FeAl2-Ga (0 ≤ x ≤ 0.5): Origin of local moment behaviour and the stabilization of an antiferromagnetic phase by weak interplanar magnetic interaction. *Journal of Alloys and Compounds*, **2019**, 782, 915-926	5.7	1
3	High-performance thermoelectrics based on metal selenides **2021**, 217-246		1
2	Electronic and magnetic properties of disordered AuCr alloys: A first-principles study. *Journal of Magnetism and Magnetic Materials*, **2013**, 332, 199-204	2.8	
1	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. *Dalton Transactions*, **2020**, 49, 5738-5740	4.3	