Tanmoy Maiti

List of Publications by Year in descending order

50 papers	1,623 citations	377584 21 h-index	325983 40 g-index
51 all docs	51 docs citations	51 times ranked	1740 citing authors

#	Article	IF	Citations
1	Temperature-dependent excitonic emission characteristics of lead-free inorganic double perovskites and their third-order optical nonlinearities. Physical Chemistry Chemical Physics, 2022, 24, 4065-4076.	1.3	3
2	Enhanced Thermoelectric Performance in Oxide Composites of La and Nb Codoped SrTiO₃ by Using Graphite as the Electron Mobility Booster. ACS Applied Materials & Interfaces, 2022, 14, 14174-14181.	4.0	15
3	Formamidinium containing tetra cation organicâ€“inorganic hybrid perovskite solar cell. Solar Energy, 2021, 220, 258-268.	2.9	8
4	The analysis of charge transport mechanism in mixed ionic electronic conductor composite of Sr₂TiCoO₆ double perovskite with yttria stabilized zirconia. Journal of Physics Condensed Matter, 2021, 33, 315703.	0.7	3
5	High performance (ZT>1) n-type oxide thermoelectric composites from earth abundant materials. Nano Energy, 2021, 84, 105905.	8.2	51
6	Performance Analysis and Optimization of a SnSe-Based Thermoelectric Generator. ACS Applied Energy Materials, 2021, 4, 8211-8219.	2.5	7
7	Compositional Fluctuations Mediated by Excess Tellurium in Bismuth Antimony Telluride Nanocomposites Yield High Thermoelectric Performance. Journal of Physical Chemistry C, 2021, 125, 20184-20194.	1.5	10
8	Reversible Ultraâ€Slow Crystal Growth of Mixed Lead Bismuth Perovskite Nanocrystals: The Presence of Dynamic Capping. Chemistry - A European Journal, 2020, 26, 1506-1510.	1.7	6
9	Device modeling and performance optimization of thermoelectric generators under isothermal and isoflux heat source condition. Journal of Power Sources, 2020, 480, 228867.	4.0	23
10	Effect of semiconductor to metal transition on thermoelectric performance in oxide nanocomposites of SrTi0.85Nb0.15O3 with graphene oxide. Applied Materials Today, 2020, 21, 100869.	2.3	22
11	High-Entropy Perovskites: An Emergent Class of Oxide Thermoelectrics with Ultralow Thermal Conductivity. ACS Sustainable Chemistry and Engineering, 2020, 8, 17022-17032.	3.2	86
12	Effect of B-site cation ordering on high temperature thermoelectric behavior of Ba x Sr2â^'x TiFeO6 double perovskites. Journal of Physics Condensed Matter, 2020, 32, 235401.	0.7	4
13	Magnetic and Electron Spin Resonance Properties of Ba x Sr 2â€“ x TiCoO 6 Double Perovskites. Physica Status Solidi (B): Basic Research, 2020, 257, 1900341.	0.7	0
14	Organic-inorganic hybrid halide perovskites impregnated with Group 1 and 15 elements for solar cell application. Journal of Physics and Chemistry of Solids, 2020, 144, 109518.	1.9	10
15	Design of Scalable Optical Decoder based on Hexagonal Plasmonic Modes induced on Topological Insulator Surface States. Scientific Reports, 2019, 9, 9190.	1.6	1
16	Enhancement of thermoelectric power factor by inducing octahedral ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Co</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> double perovskites. Physical Review B, 2019, 99, .	1.1	30
17	Structure and thermoelectric properties of calcium doped Sr2TiCoO6 double perovskites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 244, 65-71.	1.7	25
18	Double perovskite (Sr₂Bâ€²Bâ€³O₆) oxides for high-temperature thermoelectric power generationâ€”A review. Journal of Materials Research, 2019, 34, 107-125.	1.2	60

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19	Spectral Studies of Leadâ€Free Organicâ€Inorganic Hybrid Solidâ€State Perovskites CH₃NH₃Bi_{2/3}I₃ and CH₃NH₃Pb_{1/2}Bi_{1/3}I₃: Potential Photo Absorbers. ChemistrySelect, 2018, 3, 794-800.	0.7	5
20	Far field superfocusing along with enhanced near field emission from hybrid spiral plasmonic lens inscribed with nano corrals slit diffractor. Scientific Reports, 2018, 8, 1127.	1.6	2
21	Colossal change in thermopower with temperature-driven pâ€“n-type conduction switching in La_xSr_{2â^'x}TiFeO₆double perovskites. Journal Physics D: Applied Physics, 2018, 51, 065104.	1.3	7
22	Simulation and Analytical Study of Optical Complex Field in Nano-corral Slits Plasmonic Lens. Plasmonics, 2018, 13, 2151-2160.	1.8	1
23	Compositional modification of Sr2TiCoO6 double perovskites by Mo and La for high temperature thermoelectric applications. Ceramics International, 2018, 44, 2732-2737.	2.3	12
24	Evaluation of Ba doped Sr2TiFe0.5Mo0.5O6 double perovskites for high temperature thermoelectric power generation. Scripta Materialia, 2018, 155, 85-88.	2.6	10
25	Effect of bismuth doping on thermoelectric properties of Sr₂ TiCoO₆. Ferroelectrics, 2018, 532, 28-37.	0.3	4
26	Synthesis and thermoelectric properties of Ba2TiFeO6 double perovskite with insight into the crystal structure. Ferroelectrics, 2018, 536, 146-155.	0.3	1
27	Role of structural distortion on thermoelectric aspects of heavily Sr2+ doped GdMnO3. Journal of Applied Physics, 2018, 124, 094902.	1.1	5
28	Role of GO and r-GO in resistance switching behavior of bilayer TiO₂ based RRAM. Nanotechnology, 2018, 29, 505702.	1.3	17
29	Large change in thermopower with temperature driven pâ€“n type conduction switching in environment friendly Ba_xSr_{2â^'x}Ti_{0.8}Fe_{0.8}Nb_{0.4}O₆ double perovskites. Physical Chemistry Chemical Physics, 2017, 19, 5818-5829.	1.3	23
30	Multifilamentary Conduction Modeling in Transition Metal Oxide-Based RRAM. IEEE Transactions on Electron Devices, 2017, 64, 3145-3150.	1.6	19
31	Metal-like electrical conductivity in La_xSr_{2â^'x}TiMoO₆oxides for high temperature thermoelectric power generation. Dalton Transactions, 2017, 46, 5872-5879.	1.6	14
32	Effect of Ba-doping on high temperature thermoelectric properties of Sr2TiMoO6 double perovskites. Journal of Alloys and Compounds, 2017, 710, 472-478.	2.8	28
33	Environmental friendly Sr2TiMoO6 double perovskite for high temperature thermoelectric applications. Scripta Materialia, 2017, 130, 205-209.	2.6	48
34	Enhancement of thermoelectric power factor of Sr2CoMoO6 double perovskite by annealing in reducing atmosphere. Journal of Applied Physics, 2017, 122, 164902.	1.1	10
35	Effect of Spark Plasma Sintering (SPS) on the thermoelectric properties of SrTiO3 :15 at% Nb. Ceramics International, 2017, 43, 12809-12813.	2.3	30
36	Enhanced thermoelectric figure-of-merit in environmentally benign BaxSr2-xTiCoO6 double perovskites. Applied Physics Letters, 2016, 109, .	1.5	25

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37	Synthesis and characterization of Sr₂TiMO₆(M = Fe,Co) double perovskites for high temperature thermoelectric applications. Integrated Ferroelectrics, 2016, 174, 34-42.	0.3	41
38	Electrothermal numerical modeling of multifilamentary conduction in Ta₂O_{5â^'x}â€‰/WO_{3â^'x} bilayer oxides based RRAM. Ferroelectrics, 2016, 500, 229-240.	0.3	3
39	Environmentally friendly Ba_xSr_{2â^'x}TiFeO₆double perovskite with enhanced thermopower for high temperature thermoelectric power generation. RSC Advances, 2016, 6, 54636-54643.	1.7	46
40	Evaluation of Experimental Resume of BaZr_xTi_{1-x}O₃with Perspective to Ferroelectric Relaxor Family: An Overview. Ferroelectrics, 2011, 425, 4-26.	0.3	91
41	Raman spectral studies of Zr⁴⁺â€rich BaZr_xTi_{1â^'x}O₃(0.5â©½xâ©½1.00) phase diagram. Journal of Raman Spectroscopy, 2009, 40, 370-375.	1.2	99
42	Structureâ€Property Phase Diagram of BaZr_xTi_{1â^'x}O₃ System. Journal of the American Ceramic Society, 2008, 91, 1769-1780.	1.9	276
43	Ferroelectric relaxor behaviour in Ba(ZrxTi1â^'x)O3â€‰:â€‰MgO composites. Journal Physics D: Applied Physics, 2007, 40, 4355-4359.	1.3	20
44	Tailored Dielectric Properties and Tunability of Lead Free Relaxor Ba(Zr_xTi<sub>1 â^') Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.3	8
45	Enhanced electric field tunable dielectric properties of BaZrxTi1â^'xO3 relaxor ferroelectrics. Applied Physics Letters, 2007, 90, 182901.	1.5	104
46	The evolution of relaxor behavior in Ti[sup 4+] doped BaZrO[sub 3] ceramics. Journal of Applied Physics, 2006, 100, 114109.	1.1	98
47	The polar cluster like behavior in Ti4+ substituted BaZrO3 ceramics. Materials Letters, 2006, 60, 3861-3865.	1.3	35
48	Electric field dependent dielectric properties and high tunability of BaZrxTi1â^'xO3 relaxor ferroelectrics. Applied Physics Letters, 2006, 89, 122909.	1.5	134
49	Influence of gel-derived nanocrystalline spinel in a high alumina castable: Part 1. Ceramics International, 2005, 31, 333-347.	2.3	19
50	In situ spinel bonded refractory castable in relation to co-precipitation and solâ€“gel derived spinel forming agents. Ceramics International, 2003, 29, 857-868.	2.3	24