

Tristan Barbier

List of Publications by Year in descending order

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25
papers

748
citations

516215

16
h-index

610482

24
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25
all docs

25
docs citations

25
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural stability of the synthetic thermoelectric ternary and nickel-substituted tetrahedrite phases. <i>Journal of Alloys and Compounds</i> , 2015, 634, 253-262.	2.8	147
2	Electron doping and phonon scattering in $Ti_{1+x}S_2$ thermoelectric compounds. <i>Acta Materialia</i> , 2014, 78, 86-92.	3.8	70
3	The Influence of Mobile Copper Ions on the Glass-Like Thermal Conductivity of Copper-Rich Tetrahedrites. <i>Chemistry of Materials</i> , 2017, 29, 4080-4090.	3.2	66
4	Thermoelectric Materials: A New Rapid Synthesis Process for Nontoxic and High-Performance Tetrahedrite Compounds. <i>Journal of the American Ceramic Society</i> , 2016, 99, 51-56.	1.9	62
5	Copper Hyper-Stoichiometry: The Key for the Optimization of Thermoelectric Properties in Stannoidite $Cu_{8+x}Fe_{3-x}Sn_2S_{12}$. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16454-16461.	1.5	42
6	Structural and thermoelectric properties of n-type isocubanite $CuFe_2S_3$. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 424-432.	3.0	40
7	Thermoelectric properties of TiS_2 mechanically alloyed compounds. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1183-1189.	2.8	37
8	Silver intercalation in SPS dense TiS_2 : staging and thermoelectric properties. <i>Dalton Transactions</i> , 2015, 44, 7887-7895.	1.6	32
9	The impact of charge transfer and structural disorder on the thermoelectric properties of cobalt intercalated TiS_2 . <i>Journal of Materials Chemistry C</i> , 2016, 4, 1871-1880.	2.7	32
10	Mass Fluctuation Effect in $Ti_{1-x}Nb_xS_2$ Bulk Compounds. <i>Journal of Electronic Materials</i> , 2014, 43, 1590-1596.	1.0	28
11	XBi_4S_7 ($X = Mn, Fe$): New Cost-Efficient Layered n-Type Thermoelectric Sulfides with Ultralow Thermal Conductivity. <i>Advanced Functional Materials</i> , 2019, 29, 1904112.	7.8	24
12	Ordered-Defect Sulfides as Thermoelectric Materials. <i>Journal of Electronic Materials</i> , 2014, 43, 2029-2034.	1.0	23
13	High temperature neutron powder diffraction study of the $Cu_{12}Sb_4S_{13}$ and $Cu_4Sn_7S_{16}$ phases. <i>Journal of Solid State Chemistry</i> , 2017, 247, 83-89.	1.4	23
14	Dielectric properties of hexagonal perovskite ceramics prepared by different routes. <i>Materials Research Bulletin</i> , 2012, 47, 4427-4432.	2.7	22
15	Up-scaled synthesis process of sulphur-based thermoelectric materials. <i>RSC Advances</i> , 2016, 6, 10044-10053.	1.7	22
16	Decreased thermal conductivity in $Bi_2Sr_2Co_2O_x$ bulk materials prepared by partial melting. <i>Journal of Materials Research</i> , 2016, 31, 1296-1305.	1.2	18
17	Thermoelectric materials for middle and high temperature ranges. <i>Journal of Materials Research</i> , 2015, 30, 2544-2557.	1.2	16
18	Tetrahedrites synthesized via scalable mechanochemical process and spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1922-1930.	2.8	13

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19	Durability of Silicide-Based Thermoelectric Modules at High Temperatures in Air. Journal of Electronic Materials, 2015, 44, 2946-2952.	1.0	8
20	Thermal deformation effects on thermoelectric properties for Bi _{0.82} Sb _{0.18} alloys. Journal of Alloys and Compounds, 2017, 692, 563-568.	2.8	6
21	Structural study and evaluation of thermoelectric properties of single-phase isocubanite (CuFe ₂ S ₃) synthesized <i>via</i> an ultra-fast efficient microwave radiation technique. Sustainable Energy and Fuels, 2021, 5, 5804-5813.	2.5	6
22	Thermoelectric properties of (BaCoO ₃ -y) _n BaCo ₈ O ₁₁ . AIP Conference Proceedings, 2016, , .	0.3	5
23	Cu-doping effect on dielectric properties of organic gel synthesized Ba ₄ YMn ₃ ~xCu _x O _{11.5} ± δ . Journal of Solid State Chemistry, 2013, 206, 217-225.	1.4	4
24	CuFe ₂ S ₃ as electrode material for Li-ion batteries. RSC Advances, 2018, 8, 26691-26695.	1.7	2
25	Structural Investigation and Indium Substitution in the Thermoelectric Mn _{2.7} Cr _{0.3} Si ₄ Al ₂ ~x In _x Series. Journal of Electronic Materials, 2016, 45, 1992-1999.	1.0	0