Jean-Baptiste S Vaney

List of Publications by Year
in descending order

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41 papers	1,095 citations	516710 16 h-index	414414 32 g-index
42 all docs	42 docs citations	42 times ranked	1495 citing authors

#	Article	IF	Citations
1	Assessment of the thermoelectric performance of polycrystalline p-type SnSe. Applied Physics Letters, 2014, 104, .	3.3	323
2	Magnetism-mediated thermoelectric performance of the Cr-doped bismuth telluride tetradymite. Materials Today Physics, 2019, 9, 100090.	6.0	112
3	Reinvestigation of the thermal properties of single-crystalline SnSe. Applied Physics Letters, 2017, 110, .	3.3	72
4	Sb Doping of Metallic CuCr₂S₄ as a Route to Highly Improved Thermoelectric Properties. Chemistry of Materials, 2017, 29, 2988-2996.	6.7	68
5	A comprehensive study of the crystallization of Cuâ€“Asâ€“Te glasses: microstructure and thermoelectric properties. Journal of Materials Chemistry A, 2013, 1, 8190.	10.3	39
6	Semiconducting glasses: A new class of thermoelectric materials?. Journal of Solid State Chemistry, 2012, 193, 26-30.	2.9	38
7	Effective medium theory based modeling of the thermoelectric properties of composites: comparison between predictions and experiments in the glassâ€“crystal composite system Si₁₀As₁₅Te₇₅â€“Bi_{0.4}Sb_{1.6}Te₃. Journal of Materials Chemistry C, 2015, 3, 11090-11098.	5.5	33
8	Highâ€Temperature Thermoelectric Properties of Snâ€Doped Î²â€As₂Te₃. Advanced Electronic Materials, 2015, 1, 1400008.	5.1	32
9	Thermoelectric properties of double-substituted tetrahedrites Cu_{12â^'x}Co_xSb_{4â^'y}Te_yS₁₃. Dalton Transactions, 2016, 45, 7294-7302.	3.3	32
10	Thermal stability and thermoelectric properties of CuxAs40â^'xTe60â^'ySey semiconducting glasses. Journal of Solid State Chemistry, 2013, 203, 212-217.	2.9	29
11	High Temperature Transport Properties of Tetrahedrite Cu12â^'x M x Sb4â^'y Te y S13 (MÂ=ÂZn, Ni) Compounds. Journal of Electronic Materials, 2016, 45, 1601-1605.	2.2	27
12	Polymorphism in Thermoelectric As₂Te₃. Inorganic Chemistry, 2015, 54, 9936-9947.	4.0	25
13	An Sn-induced resonant level in Î²-As₂Te₃. Physical Chemistry Chemical Physics, 2018, 20, 12948-12957.	2.8	23
14	Transport Properties of Polycrystalline p-type SnSe. Materials Today: Proceedings, 2015, 2, 690-698.	1.8	19
15	Fast and scalable preparation of tetrahedrite for thermoelectrics via glass crystallization. Journal of Alloys and Compounds, 2016, 664, 209-217.	5.5	19
16	Effect of Isovalent Substitution on the Electronic Structure and Thermoelectric Properties of the Solid Solution Î±-As₂Te_{3â€“x}Se_x (0 â‰¤ x â‰¤ 1.5). Inorganic Chemistry, 2017, 56, 2248-2257.	4.0	18
17	High thermoelectric performance in Sn-substituted Î±-As₂Te₃. Journal of Materials Chemistry C, 2016, 4, 2329-2338.	5.5	17
18	Thermoelectric Properties of the Î±-As2Te3 Crystalline Phase. Journal of Electronic Materials, 2016, 45, 1447-1452.	2.2	17

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19	Stabilization of Metastable Thermoelectric Crystalline Phases by Tuning the Glass Composition in the Cuâ€“Asâ€“Te System. Inorganic Chemistry, 2018, 57, 754-767.	4.0	14
20	Thermoelectric Properties of Variants of Cu4Mn2Te4 with Spinel-Related Structure. Inorganic Chemistry, 2018, 57, 5258-5266.	4.0	12
21	Electronic structure, low-temperature transport and thermodynamic properties of polymorphic Î²-As₂Te₃. RSC Advances, 2016, 6, 52048-52057.	3.6	11
22	Synthesis, crystal structure and high-temperature transport properties of the new cluster compound Rb2Mo15Se19. Journal of Solid State Chemistry, 2016, 237, 1-6.	2.9	11
23	Thermoelectric properties of phase pure boron carbide prepared by a solution-based method. Advances in Applied Ceramics, 2020, 119, 97-106.	1.1	11
24	Thermoelectric properties and stability of glasses in the Cuâ€Asâ€Te system. Journal of the American Ceramic Society, 2017, 100, 2840-2851.	3.8	10
25	Nanostructured CoSi Obtained by Spark Plasma Sintering. Journal of Electronic Materials, 2015, 44, 1963-1966.	2.2	9
26	High thermoelectric figure of merit in well optimized Yb_yCo₄Sb₁₂. Journal of Materials Chemistry C, 2020, 8, 17034-17044.	5.5	9
27	High-temperature thermoelectric properties of the Î²-As_{2â^’x}Bi_xTe₃ solid solution. APL Materials, 2016, 4, 104901.	5.1	8
28	Tetrahedrites for Low Cost and Sustainable Thermoelectrics. Solid State Phenomena, 0, 257, 135-138.	0.3	8
29	Low-Temperature Transport Properties of Bi-Substituted Î²-As2Te3 Compounds. Journal of Electronic Materials, 2016, 45, 1786-1791.	2.2	7
30	Electrical, Thermal, and Magnetic Characterization of Natural Tetrahedritesâ€“Tennantites of Different Origin. Journal of Electronic Materials, 2016, 45, 1351-1357.	2.2	7
31	Topotactic fluorination of intermetallics as an efficient route towards quantum materials. Nature Communications, 2022, 13, 1462.	12.8	7
32	Thermoelectric properties in double-filled Ce0.3InyFe1.5Co2.5Sb12 p-type skutterudites. Journal of Alloys and Compounds, 2017, 696, 1031-1038.	5.5	6
33	Thermoelectric and magnetic properties of spark plasma sintered REB66 (REâ€¯=â€¯Y, Sm, Ho, Tm, Yb). Journal of the European Ceramic Society, 2020, 40, 3585-3591.	5.7	6
34	Direct laser write (DLW) as a versatile tool in manufacturing templates for imprint lithography on flexible substrates. Proceedings of SPIE, 2009, , .	0.8	5
35	Evidence of nodal superconductivity in LaFeSiH. Physical Review B, 2020, 101, .	3.2	3
36	Evaluation of the f-electron rare-earth copper telluride GdCu1+xTe2 as a thermoelectric material. Journal of Solid State Chemistry, 2017, 255, 193-199.	2.9	2

#	Article	IF	Citations
37	Transport properties of single-component organic conductors, TED derivatives. Molecular Systems Design and Engineering, 2017, 2, 653-658.	3.4	2
38	Improved ZT in ballâ€•milled and spark plasma sintered Cu. Journal of the American Ceramic Society, 2018, 102, 2684.	3.8	2
39	Short range order of As40-xCuxTe60 glasses. Journal of Non-Crystalline Solids, 2018, 481, 202-207.	3.1	1
40	SnSe: Breakthrough or Not Breakthrough?. , 2019, , 23-46.		1
41	Crystal growth of intermetallic thermoelectric materials. , 2018, , 217-260.		0