Igor Korobeynikov

List of Publications by Year
in descending order

26	319	933447 10	839539 18
papers	citations	h-index	g-index

26	26	26	424
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strategies and challenges of high-pressure methods applied to thermoelectric materials. Journal of Applied Physics, 2019, 125, .	2.5	46
2	Enhanced power factor and high-pressure effects in (Bi,Sb)2(Te,Se)3 thermoelectrics. Applied Physics Letters, 2015, 106, .	3.3	41
3	Thermoelectric Properties of Compressed Titanium and Zirconium Trichalcogenides. Journal of Physical Chemistry C, 2018, 122, 14362-14372.	3.1	39
4	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg2Si under pressure. Journal of Applied Physics, 2014, 115, .	2.5	34
5	â€œSmartâ€•silicon: Switching between pâ€•and nâ€conduction under compression. Applied Physics Letters, 2012, 101, 062107.	3.3	23
6	Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi₂Te₃-based thermoelectrics. Journal Physics D: Applied Physics, 2018, 51, 025501.	2.8	18
7	Tuning the electronic and vibrational properties of Sn₂P₂Se₆and Pb₂P₂S₆crystals and their metallization under high pressure. Dalton Transactions, 2017, 46, 4245-4258.	3.3	17
8	Controlling the thermoelectric power of siliconâ€“germanium alloys in different crystalline phases by applying high pressure. CrystEngComm, 2020, 22, 5416-5435.	2.6	17
9	Dramatic Changes in Thermoelectric Power of Germanium under Pressure: Printing nâ€“p Junctions by Applied Stress. Scientific Reports, 2017, 7, 44220.	3.3	16
10	Structural and Magnetic Transitions in CaCo₃V₄O₁₂ Perovskite at Extreme Conditions. Inorganic Chemistry, 2017, 56, 6251-6263.	4.0	12
11	Thermoelectric properties of n-Bi2Te3 â^' x â^' y Se x S y solid solutions under high pressure. Physics of the Solid State, 2014, 56, 263-269.	0.6	9
12	Giant Roomâ€Temperature Power Factor inpâ€Type Thermoelectric SnSe under High Pressure. Advanced Science, 2022, 9, e2103720.	11.2	7
13	On the Power Factor of Bismuth-Telluride-Based Alloys near Topological Phase Transitions at High Pressures. Semiconductors, 2019, 53, 732-736.	0.5	6
14	Colossal enhancement of the thermoelectric power factor in stress-released orthorhombic phase of SnTe. Applied Physics Letters, 2021, 118, 103903.	3.3	5
15	Colossal variations in the thermopower and nâ€“p conductivity switching in topological tellurides under pressure. Journal of Applied Physics, 2020, 128, .	2.5	5
16	Thermoelectric Power of Different Phases and States of Silicon at High Pressure. Journal of Electronic Materials, 2013, 42, 2249-2256.	2.2	4
17	Stress-controlled nâ€“p conductivity switch based on intercalated ZrTe2. Applied Physics Letters, 2021, 119, 053103.	3.3	4
18	Structural Stability and Properties of Marokite-Type Î³-Mn₃O₄. Inorganic Chemistry, 2021, 60, 13440-13452.	4.0	4

#	Article	IF	Citations
19	Synthesis of Ilmenite-type Îµ-Mn2O3 and Its Properties. Inorganic Chemistry, 2021, 60, 13348-13358.	4.0	4
20	Semiconductor-metal phase transition in LaBi under high pressure. Physics of the Solid State, 2015, 57, 1639-1641.	0.6	3
21	Nonstoichiometric Feâ€“Vâ€“Al full Heusler alloys under high pressure: thermoelectric properties. High Pressure Research, 2021, 41, 184-197.	1.2	2
22	Electrical and mechanical properties of multi-phase systems under external impacts. , 2011, , .		1
23	Thermopower of phases and states of Si under high pressure. Proceedings of SPIE, 2013, , .	0.8	1
24	Glassy chalcogenide composites under high pressure. Journal of Physics and Chemistry of Solids, 2021, 152, 109954.	4.0	1
25	Investigation of the thermopower of thulium monoselenide under a pressure to 24 GPa. Physics of the Solid State, 2014, 56, 1766-1768.	0.6	0
26	Thermopower of lanthanum monochalcogenides subjected to uniform compression up to 22 GPa. Technical Physics, 2015, 60, 469-470.	0.7	0