

Igor Korobeynikov

List of Publications by Year in descending order

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26
papers

319
citations

933264

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839398

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26
all docs

26
docs citations

26
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies and challenges of high-pressure methods applied to thermoelectric materials. Journal of Applied Physics, 2019, 125, .	1.1	46
2	Enhanced power factor and high-pressure effects in (Bi,Sb) ₂ (Te,Se) ₃ thermoelectrics. Applied Physics Letters, 2015, 106, .	1.5	41
3	Thermoelectric Properties of Compressed Titanium and Zirconium Trichalcogenides. Journal of Physical Chemistry C, 2018, 122, 14362-14372.	1.5	39
4	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg ₂ Si under pressure. Journal of Applied Physics, 2014, 115, .	1.1	34
5	Smart silicon: Switching between <i>p</i> - and <i>n</i> -conduction under compression. Applied Physics Letters, 2012, 101, 062107.	1.5	23
6	Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi ₂ Te ₃ -based thermoelectrics. Journal Physics D: Applied Physics, 2018, 51, 025501.	1.3	18
7	Tuning the electronic and vibrational properties of Sn ₂ P ₂ Se ₆ and Pb ₂ P ₂ S ₆ crystals and their metallization under high pressure. Dalton Transactions, 2017, 46, 4245-4258.	1.6	17
8	Controlling the thermoelectric power of silicon-germanium alloys in different crystalline phases by applying high pressure. CrystEngComm, 2020, 22, 5416-5435.	1.3	17
9	Dramatic Changes in Thermoelectric Power of Germanium under Pressure: Printing <i>p</i> Junctions by Applied Stress. Scientific Reports, 2017, 7, 44220.	1.6	16
10	Structural and Magnetic Transitions in CaCo ₃ V ₄ O ₁₂ Perovskite at Extreme Conditions. Inorganic Chemistry, 2017, 56, 6251-6263.	1.9	12
11	Thermoelectric properties of n-Bi ₂ Te ₃ $\hat{x} \hat{y}$ Se x S y solid solutions under high pressure. Physics of the Solid State, 2014, 56, 263-269.	0.2	9
12	Giant Room-Temperature Power Factor in <i>p</i> -Type Thermoelectric SnSe under High Pressure. Advanced Science, 2022, 9, e2103720.	5.6	7
13	On the Power Factor of Bismuth-Telluride-Based Alloys near Topological Phase Transitions at High Pressures. Semiconductors, 2019, 53, 732-736.	0.2	6
14	Colossal enhancement of the thermoelectric power factor in stress-released orthorhombic phase of SnTe. Applied Physics Letters, 2021, 118, 103903.	1.5	5
15	Colossal variations in the thermopower and <i>p</i> conductivity switching in topological tellurides under pressure. Journal of Applied Physics, 2020, 128, .	1.1	5
16	Thermoelectric Power of Different Phases and States of Silicon at High Pressure. Journal of Electronic Materials, 2013, 42, 2249-2256.	1.0	4
17	Stress-controlled <i>p</i> conductivity switch based on intercalated ZrTe ₂ . Applied Physics Letters, 2021, 119, 053103.	1.5	4
18	Structural Stability and Properties of Marokite-Type $\hat{3}$ -Mn ₃ O ₄ . Inorganic Chemistry, 2021, 60, 13440-13452.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Synthesis of Ilmenite-type δ - Mn_2O_3 and Its Properties. <i>Inorganic Chemistry</i> , 2021, 60, 13348-13358.	1.9	4
20	Semiconductor-metal phase transition in LaBi under high pressure. <i>Physics of the Solid State</i> , 2015, 57, 1639-1641.	0.2	3
21	Nonstoichiometric Fe δ -V δ -Al full Heusler alloys under high pressure: thermoelectric properties. <i>High Pressure Research</i> , 2021, 41, 184-197.	0.4	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. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
24	Glassy chalcogenide composites under high pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 152, 109954.	1.9	1
25	Investigation of the thermopower of thulium monoselenide under a pressure to 24 GPa. <i>Physics of the Solid State</i> , 2014, 56, 1766-1768.	0.2	0
26	Thermopower of lanthanum monochalcogenides subjected to uniform compression up to 22 GPa. <i>Technical Physics</i> , 2015, 60, 469-470.	0.2	0