

# Igor Korobeynikov

## List of Publications by Year in descending order

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26  
papers

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citations

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docs citations

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times ranked

424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Room-Temperature Power Factor in $\mu$ -Type Thermoelectric SnSe under High Pressure. <i>Advanced Science</i> , 2022, 9, e2103720.	5.6	7
2	Colossal enhancement of the thermoelectric power factor in stress-released orthorhombic phase of SnTe. <i>Applied Physics Letters</i> , 2021, 118, 103903.	1.5	5
3	Nonstoichiometric Fe <sub>1-x</sub> V <sub>x</sub> Al full Heusler alloys under high pressure: thermoelectric properties. <i>High Pressure Research</i> , 2021, 41, 184-197.	0.4	2
4	Glassy chalcogenide composites under high pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 152, 109954.	1.9	1
5	Stress-controlled $n$ - $p$ conductivity switch based on intercalated ZrTe <sub>2</sub> . <i>Applied Physics Letters</i> , 2021, 119, 053103.	1.5	4
6	Structural Stability and Properties of Marokite-Type $\hat{\Gamma}^3$ -Mn <sub>3</sub> O <sub>4</sub> . <i>Inorganic Chemistry</i> , 2021, 60, 13440-13452.	1.9	4
7	Synthesis of Ilmenite-type $\hat{\Gamma}^3$ -Mn <sub>2</sub> O <sub>3</sub> and Its Properties. <i>Inorganic Chemistry</i> , 2021, 60, 13348-13358.	1.9	4
8	Controlling the thermoelectric power of silicon-germanium alloys in different crystalline phases by applying high pressure. <i>CrystEngComm</i> , 2020, 22, 5416-5435.	1.3	17
9	Colossal variations in the thermopower and $n$ - $p$ conductivity switching in topological tellurides under pressure. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	5
10	On the Power Factor of Bismuth-Telluride-Based Alloys near Topological Phase Transitions at High Pressures. <i>Semiconductors</i> , 2019, 53, 732-736.	0.2	6
11	Strategies and challenges of high-pressure methods applied to thermoelectric materials. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	46
12	Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectrics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 025501.	1.3	18
13	Thermoelectric Properties of Compressed Titanium and Zirconium Trichalcogenides. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14362-14372.	1.5	39
14	Tuning the electronic and vibrational properties of Sn <sub>2</sub> P <sub>2</sub> Se <sub>6</sub> and Pb <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals and their metallization under high pressure. <i>Dalton Transactions</i> , 2017, 46, 4245-4258.	1.6	17
15	Structural and Magnetic Transitions in CaCo <sub>3</sub> V <sub>4</sub> O <sub>12</sub> Perovskite at Extreme Conditions. <i>Inorganic Chemistry</i> , 2017, 56, 6251-6263.	1.9	12
16	Dramatic Changes in Thermoelectric Power of Germanium under Pressure: Printing $n$ - $p$ Junctions by Applied Stress. <i>Scientific Reports</i> , 2017, 7, 44220.	1.6	16
17	Semiconductor-metal phase transition in LaBi under high pressure. <i>Physics of the Solid State</i> , 2015, 57, 1639-1641.	0.2	3
18	Thermopower of lanthanum monochalcogenides subjected to uniform compression up to 22 GPa. <i>Technical Physics</i> , 2015, 60, 469-470.	0.2	0

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19	Enhanced power factor and high-pressure effects in (Bi,Sb) <sub>2</sub> (Te,Se) <sub>3</sub> thermoelectrics. Applied Physics Letters, 2015, 106, .	1.5	41
20	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg <sub>2</sub> Si under pressure. Journal of Applied Physics, 2014, 115, .	1.1	34
21	Thermoelectric properties of n-Bi <sub>2</sub> Te <sub>3</sub> $\hat{x}$ $\hat{y}$ Se <sub>x</sub> S <sub>y</sub> solid solutions under high pressure. Physics of the Solid State, 2014, 56, 263-269.	0.2	9
22	Investigation of the thermopower of thulium monoselenide under a pressure to 24 GPa. Physics of the Solid State, 2014, 56, 1766-1768.	0.2	0
23	Thermopower of phases and states of Si under high pressure. Proceedings of SPIE, 2013, , .	0.8	1
24	Thermoelectric Power of Different Phases and States of Silicon at High Pressure. Journal of Electronic Materials, 2013, 42, 2249-2256.	1.0	4
25	“Smart” silicon: Switching between <i>p</i> - and <i>n</i> -conduction under compression. Applied Physics Letters, 2012, 101, 062107.	1.5	23
26	Electrical and mechanical properties of multi-phase systems under external impacts. , 2011, , .		1