

Natalia V Morozova

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Giant Room-Temperature Power Factor in p -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	Stress-controlled n - p conductivity switch based on intercalated ZrTe ₂ . <i>Applied Physics Letters</i> , 2021, 119, 053103.	1.5	4
4	Structural Stability and Properties of Marokite-Type Mn_3O_4 . <i>Inorganic Chemistry</i> , 2021, 60, 13440-13452.	1.9	4
5	Synthesis of Ilmenite-type $\mu\text{-Mn}_2\text{O}_3$ and Its Properties. <i>Inorganic Chemistry</i> , 2021, 60, 13348-13358.	1.9	4
6	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
7	Colossal variations in the thermopower and p -conductivity switching in topological tellurides under pressure. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	5
8	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
9	Strategies and challenges of high-pressure methods applied to thermoelectric materials. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	46
10	Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi_2Te_3 -based thermoelectrics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 025501.	1.3	18
11	Thermoelectric Properties of Compressed Titanium and Zirconium Trichalcogenides. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14362-14372.	1.5	39
12	Tuning the electronic and vibrational properties of $\text{Sn}_2\text{P}_2\text{Se}_6$ and $\text{Pb}_2\text{P}_2\text{S}_6$ crystals and their metallization under high pressure. <i>Dalton Transactions</i> , 2017, 46, 4245-4258.	1.6	17
13	Structural and Magnetic Transitions in $\text{CaCo}_3\text{V}_4\text{O}_{12}$ Perovskite at Extreme Conditions. <i>Inorganic Chemistry</i> , 2017, 56, 6251-6263.	1.9	12
14	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
15	Unconventional Electronic Properties of Mg_2Si Thermoelectrics Revealed by Fast-Neutron-Irradiation Doping. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9692-9701.	1.5	3
16	Features and regularities in behavior of thermoelectric properties of rare-earth, transition, and other metals under high pressure up to 20 GPa. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	18
17	Electronic transport properties of MFe_2As_2 ($\text{M} = \text{Ca, Eu, Sr}$) at ambient and high pressures up to 20 GPa. <i>Superconductor Science and Technology</i> , 2015, 28, 125010.	1.8	10
18	Electrical resistivity and Hall effect in lanthanum monobismuthide in magnetic fields to 13 T. <i>Physics of the Solid State</i> , 2015, 57, 2369-2372.	0.2	5

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19	Semiconductor-metal phase transition in LaBi under high pressure. <i>Physics of the Solid State</i> , 2015, 57, 1639-1641.	0.2	3
20	Thermopower of lanthanum monochalcogenides subjected to uniform compression up to 22 GPa. <i>Technical Physics</i> , 2015, 60, 469-470.	0.2	0
21	Enhanced power factor and high-pressure effects in (Bi,Sb) ₂ (Te,Se) ₃ thermoelectrics. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	41
22	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg ₂ Si under pressure. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	34
23	Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable p-n Electrical Conduction (<i>Adv. Mater.</i> 48/2014). <i>Advanced Materials</i> , 2014, 26, 8184-8184.	11.1	1
24	Thermoelectric properties of TmTe under pressure up to 20 GPa. <i>Physics of the Solid State</i> , 2014, 56, 937-940.	0.2	3
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	A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable p-n Electrical Conduction. <i>Advanced Materials</i> , 2014, 26, 8185-8191.	11.1	44
27	Raman spectroscopy of ferroelectric Sn ₂ P ₂ S ₆ under high pressure up to 40 GPa: Phase transitions and metallization. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	19
28	High-pressure study of the thermoelectric properties of various oxides (ZnO, Ti ₂ O ₃ , TiO ₂ , FeTiO ₃ , TiO ₂) compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 741-745.	0.7	3
29	Similar behavior of thermoelectric properties of lanthanides under strong compression up to 20 GPa. <i>Journal of Applied Physics</i> , 2012, 111, 112624.	1.1	13
30	Smart silicon: Switching between p and n-conduction under compression. <i>Applied Physics Letters</i> , 2012, 101, 062107.	1.5	23
31	High-pressure cycling of hematite ($Fe_{1-x}O$). <i>Applied Physics Letters</i> , 2012, 101, 062107.	1.1	17
32	Nanostructuring, <i>in situ</i> electronic transport Colossal tuning of an energy gap in Sn ₂ P ₂ S ₆ under pressure. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	19