Natalia V Morozova

List of Publications by Year
in descending order

32	456	623188 14	713013 21
papers	citations	h-index	g-index

33	33	33	589
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, .	1.1	46
2	A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable pâ€“n Electrical Conduction. Advanced Materials, 2014, 26, 8185-8191.	11.1	44
3	Enhanced power factor and high-pressure effects in (Bi,Sb)2(Te,Se)3 thermoelectrics. Applied Physics Letters, 2015, 106, .	1.5	41
4	Thermoelectric Properties of Compressed Titanium and Zirconium Trichalcogenides. Journal of Physical Chemistry C, 2018, 122, 14362-14372.	1.5	39
5	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg2Si under pressure. Journal of Applied Physics, 2014, 115, .	1.1	34
6	â€œSmartâ€•silicon: Switching between pâ€•and nâ€conduction under compression. Applied Physics Letters, 2012, 101, 062107.	1.5	23
7	Colossal tuning of an energy gap in Sn2P2S6 under pressure. Applied Physics Letters, 2011, 99, .	1.5	19
8	Raman spectroscopy of ferroelectric Sn2P2S6 under high pressure up to 40â€‰GPa: Phase transitions and metallization. Journal of Applied Physics, 2013, 113, .	1.1	19
9	Features and regularities in behavior of thermoelectric properties of rare-earth, transition, and other metals under high pressure up to 20â€‰GPa. Journal of Applied Physics, 2015, 118, .	1.1	18
10	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.	1.3	18
11	display="inline"><mml:mi>Î±</mml:mi></mml:math>-Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	1.1	17
12	Tuning the electronic and vibrational properties of Sn₂P₂Se₆and Pb₂P₂S₆crystals and their metallization under high pressure. Dalton Transactions, 2017, 46, 4245-4258.	1.6	17
13	Controlling the thermoelectric power of siliconâ€“germanium alloys in different crystalline phases by applying high pressure. CrystEngComm, 2020, 22, 5416-5435.	1.3	17
14	Dramatic Changes in Thermoelectric Power of Germanium under Pressure: Printing nâ€“p Junctions by Applied Stress. Scientific Reports, 2017, 7, 44220.	1.6	16
15	Similar behavior of thermoelectric properties of lanthanides under strong compression up to 20â€‰GPa. Journal of Applied Physics, 2012, 111, 112624.	1.1	13
16	Structural and Magnetic Transitions in CaCo₃V₄O₁₂ Perovskite at Extreme Conditions. Inorganic Chemistry, 2017, 56, 6251-6263.	1.9	12
17	Electronic transport properties ofMFe₂As₂(M= Ca, Eu, Sr) at ambient and high pressures up to 20 GPa. Superconductor Science and Technology, 2015, 28, 125010.	1.8	10
18	Giant Roomâ€Temperature Power Factor inpâ€Type Thermoelectric SnSe under High Pressure. Advanced Science, 2022, 9, e2103720.	5.6	7

#	Article	IF	Citations
19	On the Power Factor of Bismuth-Telluride-Based Alloys near Topological Phase Transitions at High Pressures. Semiconductors, 2019, 53, 732-736.	0.2	6
20	Electrical resistivity and Hall effect in lanthanum monobismuthide in magnetic fields to 13 T. Physics of the Solid State, 2015, 57, 2369-2372.	0.2	5
21	Colossal enhancement of the thermoelectric power factor in stress-released orthorhombic phase of SnTe. Applied Physics Letters, 2021, 118, 103903.	1.5	5
22	Colossal variations in the thermopower and nâ€“p conductivity switching in topological tellurides under pressure. Journal of Applied Physics, 2020, 128, .	1.1	5
23	Stress-controlled nâ€“p conductivity switch based on intercalated ZrTe2. Applied Physics Letters, 2021, 119, 053103.	1.5	4
24	Structural Stability and Properties of Marokite-Type Î³-Mn₃O₄. Inorganic Chemistry, 2021, 60, 13440-13452.	1.9	4
25	Synthesis of Ilmenite-type Îµ-Mn2O3 and Its Properties. Inorganic Chemistry, 2021, 60, 13348-13358.	1.9	4
26	Highâ€pressure study of the thermoelectric properties of various oxides (ZnO,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (Ti<sub>2 compounds. Physica Status Solidi (B): Basic Research, 2013, 250, 741-745.	0.7	3
27	Thermoelectric properties of TmTe under pressure up to 20 GPa. Physics of the Solid State, 2014, 56, 937-940.	0.2	3
28	Semiconductor-metal phase transition in LaBi under high pressure. Physics of the Solid State, 2015, 57, 1639-1641.	0.2	3
29	Unconventional Electronic Properties of Mg₂Si Thermoelectrics Revealed by Fast-Neutron-Irradiation Doping. Journal of Physical Chemistry C, 2016, 120, 9692-9701.	1.5	3
30	Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable pâ€“n Electrical Conduction (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8184-8184.	11.1	1
31	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
32	Thermopower of lanthanum monochalcogenides subjected to uniform compression up to 22 GPa. Technical Physics, 2015, 60, 469-470.	0.2	0