

Pavel G Naumov

List of Publications by Year in descending order

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687220

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38
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38
docs citations

38
times ranked

2718
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in Weyl semimetal candidate MoTe ₂ . Nature Communications, 2016, 7, 11038.	5.8	611
2	Ammonia as a case study for the spontaneous ionization of a simple hydrogen-bonded compound. Nature Communications, 2014, 5, 3460.	5.8	70
3	Pressure-induced superconductivity up to 13.1 K in the pyrite phase of palladium diselenide $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{PdS} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2017, 96, .	1.1	66
4	Topological Quantum Phase Transition and Superconductivity Induced by Pressure in the Bismuth Tellurohalide BiTeI. Advanced Materials, 2017, 29, 1605965.	11.1	51
5	Structural and magnetic properties of the iron-containing langasite family $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{A} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{M} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	1.1	48
6	Pressure-driven superconductivity in the transition-metal pentatelluride $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{HfT} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2016, 94, .	1.1	46
7	Large nonsaturating magnetoresistance and pressure-induced phase transition in the layered semimetal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{HfTe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2017, 96, .	1.1	34
8	Pressure-induced superconductivity and topological quantum phase transitions in a quasi-one-dimensional topological insulator: Bi ₄ I ₄ . Npj Quantum Materials, 2018, 3, .	1.8	34
9	Quantum critical point and spin fluctuations in lower-mantle ferropericlase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7142-7147.	3.3	29
10	Pressure-induced metallization, transition to the pyrite-type structure, and superconductivity in palladium disulfide $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Pd} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2019, 100, .	1.1	25
11	A closed-cycle cryostat for optical and Mössbauer spectroscopy in the temperature range 4.2â€“300 K. Instruments and Experimental Techniques, 2010, 53, 770-776.	0.1	24
12	Magnetic transition and spin rotation in a new multiferroic Ba ₃ TaFe ₃ Si ₂ O ₁₄ observed by the Mössbauer spectroscopy. Europhysics Letters, 2010, 90, 67005.	0.7	24
13	Pressure-tuned vibrational resonance coupling of intramolecular fundamentals in ammonium azide (NH ₄ N ₃). Vibrational Spectroscopy, 2012, 58, 188-192.	1.2	17
14	A Room-Temperature Verwey-type Transition in Iron Oxide, Fe ₅ O ₆ . Angewandte Chemie - International Edition, 2020, 59, 5632-5636.	7.2	17
15	Pressure-induced transition to the collapsed tetragonal phase in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{BaC} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{r} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{A} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2017, 95, .	1.1	13
16	Pressure-induced metallization in layered ReSe ₂ . Journal of Physics Condensed Matter, 2018, 30, 035401.	0.7	12
17	Phase transitions of cesium azide at pressures up to 30â€‰GPa studied using <i>in situ</i> Raman spectroscopy. Journal of Applied Physics, 2015, 117, 165901.	1.1	10
18	Atomic and electronic structures evolution of the narrow band gap semiconductor Ag ₂ Se under high pressure. Journal of Physics Condensed Matter, 2016, 28, 385801.	0.7	9

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19	Suppression of the ferromagnetic order in the Heusler alloy Ni ₅₀ Mn ₃₅ In ₁₅ by hydrostatic pressure. Applied Physics Letters, 2016, 108, 261903.	1.5	8
20	Pressure-induced Lifshitz and structural transitions in NbAs and TaAs: experiments and theory. Journal of Physics Condensed Matter, 2018, 30, 185401.	0.7	8
21	Pressure-induced Lifshitz transition in NbP: Raman, x-ray diffraction, electrical transport, and density functional theory. Physical Review B, 2018, 97, . studied by synchrotron $\text{Fe}_{1-x}\text{Mn}_x\text{Te}$ Mn^{2+} Mossbauer spectroscopy. Physical Review B, 2018, 97, .	1.1	8
22	Pressure effect on superconductivity in FeSe _{0.5} Te _{0.5} . Physica Status Solidi (B): Basic Research, 2017, 254, 1600161.	0.7	7
23	Structure and electrical resistivity of mixed-valent EuNi ₂ P ₂ at high pressure. Journal of Physics Condensed Matter, 2014, 26, 335701.	0.7	6
24	More Than 50 Years after Its Discovery in SiO ₂ Octahedral Coordination Has Also Been Established in SiS ₂ at High Pressure. Inorganic Chemistry, 2017, 56, 372-377.	1.9	6
25	Interplay Between Superconductivity and Magnetism in Cu-Doped FeSe Under Pressure. Journal of Superconductivity and Novel Magnetism, 2018, 31, 763-769.	0.8	6
26	Pressure-induced magnetic collapse and metallization of TlFe _{1.6} Se ₂ . Physical Review B, 2017, 96, .	1.1	5
27	Pressure-induced Lifshitz transition in NbP: Raman, x-ray diffraction, electrical transport, and density functional theory. Physical Review B, 2018, 97, .	1.1	5
28	Pressure-induced transition to Ni ₂ In-type phase in lithium sulfide (Li ₂ S). Solid State Sciences, 2016, 61, 220-224.	1.5	4
29	Large resistivity reduction in mixed-valent CsAuBr ₃ under pressure. Physical Review B, 2019, 100, .		
30	Structural transitions under high-pressure in a langasite-type multiferroic Ba ₃ TaFe ₃ Si ₂ O ₁₄ . Solid State Sciences, 2015, 49, 37-42.	1.5	2
31	A Room-Temperature Verwey-Type Transition in Iron Oxide, Fe ₅ O ₆ . Angewandte Chemie, 2020, 132, 5681-5685.	1.6	2
32	Optical Setup for a Piston-Cylinder Pressure Cell: A Two-Volume Approach. Physical Review Applied, 2022, 17, .	1.5	2
33	Flux Jumps in Cable-in-Conduit Conductors Induced by Transient Magnetic Field. IEEE Transactions on Applied Superconductivity, 2006, 16, 811-814.	1.1	1
34	Effect of voltage-current characteristic smoothness on the stability margin of cable-in-conduit conductors. Cryogenics, 2007, 47, 198-203.	0.9	0
35	Innenteilbild: A Room-Temperature Verwey-Type Transition in Iron Oxide, Fe ₅ O ₆ (Angew. Chem. 14/2020). Angewandte Chemie, 2020, 132, 5450-5450. Pressure-induced collapse of large-moment magnetic order and localized-to-itinerant electronic transition in the host-guest compound Cs ₃ CoCl ₆ F.	1.6	0
36	Pressure-induced collapse of large-moment magnetic order and localized-to-itinerant electronic transition in the host-guest compound Cs ₃ CoCl ₆ F. Physical Review B, 2020, 101, .	1.1	0