

Taras Palasyuk

List of Publications by Year in descending order

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33
papers

1,628
citations

471509

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times ranked

2122
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and magnetic phase diagram of $\text{Fe}_{1.01}\text{Se}$ with superconductivity at 36.7 K under pressure. <i>Nature Materials</i> , 2009, 8, 630-633.	27.5	943
2	Ammonia as a case study for the spontaneous ionization of a simple hydrogen-bonded compound. <i>Nature Communications</i> , 2014, 5, 3460.	12.8	70
3	Phase stability of lithium azide at pressures up to 60 GPa. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 195404.	1.8	58
4	Hexagonal to cubic phase transition in YH_3 under high pressure. <i>Solid State Communications</i> , 2005, 133, 477-480.	1.9	50
5	Pressure induced hexagonal to cubic phase transformation in erbium trihydride. <i>Solid State Communications</i> , 2004, 130, 219-221.	1.9	49
6	Pressure-induced structural phase transition in rare-earth trihydrides. Part I. (GdH_3 , HoH_3 , LuH_3). <i>Solid State Communications</i> , 2005, 133, 481-486.	1.9	48
7	Pressure induced polymorphism in ammonium azide (NH_4N_3). <i>Chemical Physics</i> , 2011, 386, 41-44.	1.9	37
8	Pressure-induced structural phase transition in rare-earth trihydrides. Part II. SmH_3 and compressibility systematics. <i>Solid State Communications</i> , 2007, 141, 302-305.	1.9	34
9	Pressure-induced structural phase transition in rare-earth trihydrides. Part III. Systematics: General and geometric approach. <i>Solid State Communications</i> , 2007, 141, 354-358.	1.9	29
10	Pressure induced phase transformation of REH_3 . <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 593-597.	5.5	27
11	Superconductivity and magnetism in $\text{Rb}_{0.8}\text{Fe}_{1.6}\text{Se}_2$ under pressure. <i>Physical Review B</i> , 2012, 85, .	3.2	27
12	High pressure studies of the erbium-hydrogen system. <i>Solid State Communications</i> , 2005, 135, 226-231.	1.9	26
13	High-pressure Raman spectroscopy study of I_2 and I_3 polymorphs of AlH_3 . <i>Journal of Raman Spectroscopy</i> , 2008, 39, 922-927.	2.5	24
14	Exotic magnetism in the alkali sesquioxides Rb_4O_6 and Cs_4O_6 . <i>Physical Review B</i> , 2009, 79, .	3.2	22
15	$\text{M}(\text{BH}_3)\text{NH}_2\text{BH}_2\text{NH}_2$ – the missing link in the mechanism of the thermal decomposition of light alkali metal amidoboranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23340-23346.	2.8	21
16	Pressure-restored superconductivity in Cu-substituted FeSe . <i>Physical Review B</i> , 2011, 84, .	3.2	19
17	Pressure-tuned vibrational resonance coupling of intramolecular fundamentals in ammonium azide (NH_4N_3). <i>Vibrational Spectroscopy</i> , 2012, 58, 188-192.	2.2	17
18	High-Pressure Study of $\text{Mn}(\text{BH}_4)_2$ Reveals a Stable Polymorph with High Hydrogen Density. <i>Chemistry of Materials</i> , 2016, 28, 274-283.	6.7	17

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19	High-Pressure Raman and X-ray Diffraction Study of $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -Polymorphs of Aluminum Hydride. Journal of Physical Chemistry C, 2012, 116, 3808-3816.	3.1	14
20	Raman spectroscopy study of REH ₃ under pressure. Solid State Communications, 2007, 142, 337-341.	1.9	13
21	Chemically driven negative linear compressibility in sodium amidoborane, Na(NH ₂ BH ₃). Scientific Reports, 2016, 6, 28745.	3.3	13
22	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.	2.5	10
23	High-pressure study of tetramethylsilane by Raman spectroscopy. Journal of Chemical Physics, 2012, 136, 024503.	3.0	9
24	High-pressure studies of LaH ₃ $\hat{\Gamma}$ ($\hat{\Gamma}$ =0.00, 0.15). Journal of Alloys and Compounds, 2009, 468, 191-194.	5.5	8
25	High pressure studies of GdMn ₂ and its hydrides. Journal of Alloys and Compounds, 2004, 375, 62-66.	5.5	7
26	Pressure effect on superconductivity in FeSe _{0.5} Te _{0.5} . Physica Status Solidi (B): Basic Research, 2017, 254, 1600161.	1.5	7
27	Structure and electrical resistivity of mixed-valent EuNi ₂ P ₂ at high pressure. Journal of Physics Condensed Matter, 2014, 26, 335701.	1.8	6
28	Hydrogen-mediated affinity of ions found in compressed potassium amidoborane, K[NH ₂ BH ₃]. CrystEngComm, 2014, 16, 10367-10370.	2.6	5
29	Pressure-induced magnetic collapse and metallization of TlFe _{1.6} Se ₂ . Physical Review B, 2017, 96, .	3.2	5
30	Experimental and theoretical evidence of dihydrogen bonds in lithium amidoborane. Scientific Reports, 2020, 10, 17431.	3.3	5
31	High pressure studies of terbium trihydride. X-ray, Raman and DFT investigations. Journal of Alloys and Compounds, 2014, 597, 58-62.	5.5	4
32	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.	3.2	2
33	Study of phase stability and isotope effect in dysprosium trihydride at high pressure. Journal of Alloys and Compounds, 2017, 722, 946-952.	5.5	2