Taras Palasyuk

List of Publications by Year in descending order

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33 papers	1,628 citations	471509 17 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	2122 citing authors

#	Article	IF	Citations
1	Experimental and theoretical evidence of dihydrogen bonds in lithium amidoborane. Scientific Reports, 2020, 10, 17431.	3.3	5
2	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
3	Pressure-induced magnetic collapse and metallization of TlFe1.6Se2. Physical Review B, 2017, 96, .	3.2	5
4	Pressure effect on superconductivity in FeSe_{0.5}Te_{0.5}. Physica Status Solidi (B): Basic Research, 2017, 254, 1600161.	1.5	7
5	Chemically driven negative linear compressibility in sodium amidoborane, Na(NH2BH3). Scientific Reports, 2016, 6, 28745.	3.3	13
6	High-Pressure Study of Mn(BH4)2 Reveals a Stable Polymorph with High Hydrogen Density. Chemistry of Materials, 2016, 28, 274-283.	6.7	17
7	Phase transitions of cesium azide at pressures up to 30â€‰GPa studied using in situ Raman spectroscopy. Journal of Applied Physics, 2015, 117, 165901.	2.5	10
8	Structural transitions under high-pressure in a langasite-type multiferroic Ba3TaFe3Si2O14. Solid State Sciences, 2015, 49, 37-42.	3.2	2
9	Hydrogen-mediated affinity of ions found in compressed potassium amidoborane, K[NH₂BH₃]. CrystEngComm, 2014, 16, 10367-10370.	2.6	5
10	Ammonia as a case study for the spontaneous ionization of a simple hydrogen-bonded compound. Nature Communications, 2014, 5, 3460.	12.8	70
11	High pressure studies of terbium trihydride. X-ray, Raman and DFT investigations. Journal of Alloys and Compounds, 2014, 597, 58-62.	5.5	4
12	Structure and electrical resistivity of mixed-valent EuNi2P2at high pressure. Journal of Physics Condensed Matter, 2014, 26, 335701.	1.8	6
13	M(BH₃NH₂BH₂NH₂BH₃) â€“ the missing link in the mechanism of the thermal decomposition of light alkali metal amidoboranes. Physical Chemistry Chemical Physics, 2014, 16, 23340-23346.	2.8	21
14	High-pressure study of tetramethylsilane by Raman spectroscopy. Journal of Chemical Physics, 2012, 136, 024503.	3.0	9
15	Superconductivity and magnetism in Rb0.8Fe1.6Se2under pressure. Physical Review B, 2012, 85, .	3.2	27
16	High-Pressure Raman and X-ray Diffraction Study of Î²- and Î³-Polymorphs of Aluminum Hydride. Journal of Physical Chemistry C, 2012, 116, 3808-3816.	3.1	14
17	Pressure-tuned vibrational resonance coupling of intramolecular fundamentals in ammonium azide (NH4N3). Vibrational Spectroscopy, 2012, 58, 188-192.	2.2	17
18	Pressure induced polymorphism in ammonium azide (NH4N3). Chemical Physics, 2011, 386, 41-44.	1.9	37

#	Article	IF	Citations
19	Pressure-restored superconductivity in Cu-substituted FeSe. Physical Review B, 2011, 84, .	3.2	19
20	Exotic magnetism in the alkali sesquioxidesRb4O6andCs4O6. Physical Review B, 2009, 79, .	3.2	22
21	Phase stability of lithium azide at pressures up to 60 GPa. Journal of Physics Condensed Matter, 2009, 21, 195404.	1.8	58
22	High-pressure studies of LaH3â^'Î´ (Î´=0.00, 0.15). Journal of Alloys and Compounds, 2009, 468, 191-194.	5.5	8
23	Electronic and magnetic phase diagram of Î²-Fe1.01Se with superconductivity at 36.7â€‰K underÂpressure. Nature Materials, 2009, 8, 630-633.	27.5	943
24	Highâ€pressure Raman spectroscopy study of Î± and Î³ polymorphs of AlH₃. Journal of Raman Spectroscopy, 2008, 39, 922-927.	2.5	24
25	Pressure induced phase transformation of REH3. Journal of Alloys and Compounds, 2007, 446-447, 593-597.	5.5	27
26	Pressure-induced structural phase transition in rare-earth trihydrides. Part II. SmH3 and compressibility systematics. Solid State Communications, 2007, 141, 302-305.	1.9	34
27	Pressure-induced structural phase transition in rare-earth trihydrides. Part III. Systematics: General and geometric approach. Solid State Communications, 2007, 141, 354-358.	1.9	29
28	Raman spectroscopy study of REH3 under pressure. Solid State Communications, 2007, 142, 337-341.	1.9	13
29	Hexagonal to cubic phase transition in YH3 under high pressure. Solid State Communications, 2005, 133, 477-480.	1.9	50
30	Pressure-induced structural phase transition in rare-earth trihydrides. Part I. (GdH3, HoH3, LuH3). Solid State Communications, 2005, 133, 481-486.	1.9	48
31	High pressure studies of the erbiumâ€“hydrogen system. Solid State Communications, 2005, 135, 226-231.	1.9	26
32	Pressure induced hexagonal to cubic phase transformation in erbium trihydride. Solid State Communications, 2004, 130, 219-221.	1.9	49
33	High pressure studies of GdMn2 and its hydrides. Journal of Alloys and Compounds, 2004, 375, 62-66.	5.5	7