Guangtao Liu

List of Publications by Year
in descending order

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36	611	759055	610775
papers	citations	12 h-index	24 g-index

37	37	37	714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Temperature Superconducting Phase in Clathrate Calcium Hydride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaH</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></ up to 215ÂK at a Pressure of 172ÂGPa. Physical Review Letters, 2022, 128, 167001.	2.9	149
2	Metallic and superconducting gallane under high pressure. Physical Review B, 2011, 84, .	1.1	65
3	High-Pressure Phase Transitions and Structures of Topological Insulator BiTeI. Journal of Physical Chemistry C, 2013, 117, 25677-25683.	1.5	50
4	Stabilization of 9/10-Fold Structure in Bismuth Selenide at High Pressures. Journal of Physical Chemistry C, 2013, 117, 10045-10050.	1.5	43
5	Determinations of the high-pressure crystal structures of Sb₂Te₃. Journal of Physics Condensed Matter, 2012, 24, 475403.	0.7	42
6	Nb-H system at high pressures and temperatures. Physical Review B, 2017, 95, .	1.1	32
7	Stoichiometric evolutions of PH3 under high pressure: implication for high-Tc superconducting hydrides. National Science Review, 2019, 6, 524-531.	4.6	28
8	Pressure-Engineered Optical and Charge Transport Properties of Mn²⁺/Cu²⁺ Codoped CsPbCl₃ Perovskite Nanocrystals via Structural Progression. ACS Applied Materials & Interfaces, 2020, 12, 48225-48236.	4.0	22
9	Pressure induced phase transitions in TiH2. Journal of Applied Physics, 2013, 113, 103512.	1.1	17
10	Phase transition and superconductivity in ReS2, ReSe2 and ReTe2. Physical Chemistry Chemical Physics, 2018, 20, 29472-29479.	1.3	15
11	Pressure-induced electron phase transitions of Î±-As2Te3. Journal of Alloys and Compounds, 2016, 685, 551-558.	2.8	13
12	Experimental Observation of the High Pressure Induced Substitutional Solid Solution and Phase Transformation in Sb2S3. Scientific Reports, 2018, 8, 14795.	1.6	13
13	Experimental clathrate superhydrides <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuH</mml:mi><mml:mn>6</mml:mn></mml:msub></ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuH</mml:mi><mml:mn>9</mml:mn></mml:msub></ at extreme pressure conditions. Physical Review Research, 2021, 3, .	1.3	13
14	Disproportionation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ at High Pressure and Temperature. Physical Review Letters, 2022, 128, 106001.	2.9	13
15	Phase transition of cadmium fluoride under high pressure. Solid State Communications, 2011, 151, 1899-1902.	0.9	12
16	Unexpected Semimetallic BiS₂ at High Pressure and High Temperature. Journal of Physical Chemistry Letters, 2018, 9, 5785-5791.	2.1	12
17	Design and synthesis of clathrate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaB</mml:mi><mml:mn>8</mml:mn></mml:msub></ with superconductivity. Physical Review B, 2021, 104, .	1.1	12
18	Theoretical investigation of the valence states in Au via the Auâ€“F compounds under high pressure. Physical Chemistry Chemical Physics, 2019, 21, 17621-17627.	1.3	11

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19	High-pressure phase transitions of nitinol NiTi to a semiconductor with an unusual topological structure. Physical Review B, 2018, 97, .	1.1	6
20	Superconducting TaH5 at high pressure. New Journal of Physics, 2019, 21, 123009.	1.2	6
21	Catenation of carbon in LaC₂ predicted under high pressure. Physical Chemistry Chemical Physics, 2016, 18, 14286-14291.	1.3	5
22	The experimental compression behavior of platinum hydride to 128â€¯GPa. Materials Letters, 2019, 249, 84-86.	1.3	5
23	First principles study of LiAlO₂: new dense monoclinic phase under high pressure. Journal of Physics Condensed Matter, 2018, 30, 115401.	0.7	4
24	Mechanical properties and superconductivity in two-dimensional B2O under extreme strain. Physical Chemistry Chemical Physics, 2019, 21, 25859-25864.	1.3	4
25	High-pressure topological transport study of Bi2Se3 single crystal. Applied Surface Science, 2020, 507, 145052.	3.1	4
26	Pressure-induced superconductivity and structural transitions in topological insulator SnBi2Te4. Journal of Alloys and Compounds, 2022, 900, 163371.	2.8	3
27	Computational prediction of aâ€‰â€‰+4 oxidation state in Au via compressed AuO2 compound. Journal of Physics Condensed Matter, 2020, 32, 015402.	0.7	2
28	Pressure-induced structural transitions between successional superconducting phases in GeTe. Journal of Physics Condensed Matter, 2021, 33, 355403.	0.7	2
29	Stability of Ca(OH)2 at Earth's deep lower mantle conditions. Physical Review B, 2021, 104, .	1.1	2
30	Synthesis of calcium polysulfides at high pressures. Physical Review B, 2021, 104, .	1.1	2
31	Pressure-induced formation of bulk Ge-Sn compounds with high concentration of Sn. Solid State Communications, 2019, 293, 48-52.	0.9	1
32	A new intermediate phase in compressed nitinol. Journal of Alloys and Compounds, 2020, 817, 153234.	2.8	1
33	High-pressure study of the structural phase transition in Cu1.875Te. Computational Materials Science, 2021, 186, 110020.	1.4	1
34	Superconductivity in metal intercalated graphite-like boron-carbon-nitrogen. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 402, 127348.	0.9	1
35	Pressure induced semiconductor-metal transition in polycrystalline Î²-Ag0.33V2O5. Materials Letters, 2019, 236, 271-275.	1.3	0
36	Unprecedented metallic BiS phase from the binary Biâ€“S family revisited under extreme conditions of high pressure and high temperature. Solid State Communications, 2020, 318, 113984.	0.9	0