

# Guangtao Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8297512/publications.pdf>

Version: 2024-02-01

36  
papers

611  
citations

759055

12  
h-index

610775

24  
g-index

37  
all docs

37  
docs citations

37  
times ranked

714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced superconductivity and structural transitions in topological insulator SnBi <sub>2</sub> Te <sub>4</sub> . Journal of Alloys and Compounds, 2022, 900, 163371.	2.8	3
2	Disproportionation of $\text{SO}_2$ at High Pressure and Temperature. Physical Review Letters, 2022, 128, 106001.	2.9	149
3	High-Temperature Superconducting Phase in Clathrate Calcium Hydride $\text{CaH}_6$ up to 215 ÅK at a Pressure of 172 ÅGPa. Physical Review Letters, 2022, 128, 167001.	2.9	149
4	High-pressure study of the structural phase transition in Cu <sub>1.875</sub> Te. Computational Materials Science, 2021, 186, 110020.	1.4	1
5	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
6	Pressure-induced structural transitions between successional superconducting phases in GeTe. Journal of Physics Condensed Matter, 2021, 33, 355403.	0.7	2
7	Stability of Ca(OH) <sub>2</sub> at Earth's deep lower mantle conditions. Physical Review B, 2021, 104, .	1.1	2
8	Synthesis of calcium polysulfides at high pressures. Physical Review B, 2021, 104, .	1.1	2
9	Experimental clathrate superhydrides $\text{EuH}_6$ and $\text{EuH}_9$ at extreme pressure conditions. Physical Review Research, 2021, 3, .	1.3	13
10	Design and synthesis of clathrate $\text{LaB}_8$ with superconductivity. Physical Review B, 2021, 104, .	1.1	2
11	High-pressure topological transport study of Bi <sub>2</sub> Se <sub>3</sub> single crystal. Applied Surface Science, 2020, 507, 145052.	3.1	4
12	A new intermediate phase in compressed nitinol. Journal of Alloys and Compounds, 2020, 817, 153234.	2.8	1
13	Pressure-Engineered Optical and Charge Transport Properties of Mn <sup>2+</sup> /Cu <sup>2+</sup> Codoped CsPbCl <sub>3</sub> Perovskite Nanocrystals <i>via</i> Structural Progression. ACS Applied Materials & Interfaces, 2020, 12, 48225-48236.	4.0	22
14	Unprecedented metallic BiS phase from the binary Bi-S family revisited under extreme conditions of high pressure and high temperature. Solid State Communications, 2020, 318, 113984.	0.9	0
15	Computational prediction of a +4 oxidation state in Au via compressed AuO <sub>2</sub> compound. Journal of Physics Condensed Matter, 2020, 32, 015402.	0.7	2
16	Theoretical investigation of the valence states in Au <i>via</i> the AuF compounds under high pressure. Physical Chemistry Chemical Physics, 2019, 21, 17621-17627.	1.3	11
17	The experimental compression behavior of platinum hydride to 128 ÅGPa. Materials Letters, 2019, 249, 84-86.	1.3	5
18	Stoichiometric evolutions of PH <sub>3</sub> under high pressure: implication for high-T superconducting hydrides. National Science Review, 2019, 6, 524-531.	4.6	28

#	ARTICLE	IF	CITATIONS
19	Pressure-induced formation of bulk Ge-Sn compounds with high concentration of Sn. Solid State Communications, 2019, 293, 48-52.	0.9	1
20	Mechanical properties and superconductivity in two-dimensional B2O under extreme strain. Physical Chemistry Chemical Physics, 2019, 21, 25859-25864.	1.3	4
21	Superconducting TaH5 at high pressure. New Journal of Physics, 2019, 21, 123009.	1.2	6
22	Pressure induced semiconductor-metal transition in polycrystalline $\hat{1}^2$ -Ag0.33V2O5. Materials Letters, 2019, 236, 271-275.	1.3	0
23	First principles study of LiAlO <sub>2</sub> : new dense monoclinic phase under high pressure. Journal of Physics Condensed Matter, 2018, 30, 115401.	0.7	4
24	High-pressure phase transitions of nitinol NiTi to a semiconductor with an unusual topological structure. Physical Review B, 2018, 97, .	1.1	6
25	Phase transition and superconductivity in ReS2, ReSe2 and ReTe2. Physical Chemistry Chemical Physics, 2018, 20, 29472-29479.	1.3	15
26	Experimental Observation of the High Pressure Induced Substitutional Solid Solution and Phase Transformation in Sb2S3. Scientific Reports, 2018, 8, 14795.	1.6	13
27	Unexpected Semimetallic BiS <sub>2</sub> at High Pressure and High Temperature. Journal of Physical Chemistry Letters, 2018, 9, 5785-5791.	2.1	12
28	Nb-H system at high pressures and temperatures. Physical Review B, 2017, 95, .	1.1	32
29	Catenation of carbon in LaC <sub>2</sub> predicted under high pressure. Physical Chemistry Chemical Physics, 2016, 18, 14286-14291.	1.3	5
30	Pressure-induced electron phase transitions of $\hat{1}^{\pm}$ -As2Te3. Journal of Alloys and Compounds, 2016, 685, 551-558.	2.8	13
31	High-Pressure Phase Transitions and Structures of Topological Insulator BiTel. Journal of Physical Chemistry C, 2013, 117, 25677-25683.	1.5	50
32	Stabilization of 9/10-Fold Structure in Bismuth Selenide at High Pressures. Journal of Physical Chemistry C, 2013, 117, 10045-10050.	1.5	43
33	Pressure induced phase transitions in TiH2. Journal of Applied Physics, 2013, 113, 103512.	1.1	17
34	Determinations of the high-pressure crystal structures of Sb <sub>2</sub> Te <sub>3</sub> . Journal of Physics Condensed Matter, 2012, 24, 475403.	0.7	42
35	Phase transition of cadmium fluoride under high pressure. Solid State Communications, 2011, 151, 1899-1902.	0.9	12
36	Metallic and superconducting gallane under high pressure. Physical Review B, 2011, 84, .	1.1	65