Bingbing Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2467533/publications.pdf

Version: 2024-02-01

49 papers	2,275 citations	331259 21 h-index	214527 47 g-index
49 all docs	49 docs citations	49 times ranked	2030 citing authors

#	Article	IF	Citations
1	Pressure-induced metallization of dense (H2S)2H2 with high-Tc superconductivity. Scientific Reports, 2014, 4, 6968.	1.6	802
2	Long-Range Ordered Carbon Clusters: A Crystalline Material with Amorphous Building Blocks. Science, 2012, 337, 825-828.	6.0	173
3	Highly Enhanced Luminescence from Single-Crystalline C60Â·1m-xylene Nanorods. Chemistry of Materials, 2006, 18, 4190-4194.	3.2	117
4	Superconducting high-pressure phases of disilane. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9969-9973.	3.3	102
5	Size-Dependent Amorphization of Nanoscale<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">Y</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>at High Pressure.	2.9	100
6	Novel Superhard <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:msup><mml:mi>p</mml:mi><mml:mn>3</mml:mn></mml:msup></mml:mrow Carbon Allotrope from Cold-Compressed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>70</mml:mn></mml:msub></mml:mrow></mml:math> Peapods. Physical Review Letters, 2017, 118, 245701.	2.9	100
7	Raman signature to identify the structural transition of single-wall carbon nanotubes under high pressure. Physical Review B, 2008, 78, .	1.1	79
8	Pressure-Induced Amorphization and Polyamorphism in One-Dimensional Single-Crystal TiO₂ Nanomaterials. Journal of Physical Chemistry Letters, 2010, 1, 309-314.	2.1	68
9	Divergent synthesis routes and superconductivity of ternary hydride<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MgSiH</mml:mi><mml:mn>6</mml:mn></mml:msub> high pressure. Physical Review B, 2017, 96, .	1.1	67
10	Pressure-induced SERS enhancement in a MoS₂/Au/R6G system by a two-step charge transfer process. Nanoscale, 2019, 11, 21493-21501.	2.8	48
11	Orthorhombic C14 carbon: A novel superhard sp3 carbon allotrope. Carbon, 2020, 156, 309-312.	5.4	47
12	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. Physical Review Letters, 2020, 124, 065701.	2.9	41
13	Prediction of superconducting ternary hydride MgGeH₆: from divergent high-pressure formation routes. Physical Chemistry Chemical Physics, 2017, 19, 27406-27412.	1.3	40
14	Tailoring Building Blocks and Their Boundary Interaction for the Creation of New, Potentially Superhard, Carbon Materials. Advanced Materials, 2015, 27, 3962-3968.	11.1	34
15	Pressure-Induced Phase Transitions of C₇₀ Nanotubes. Journal of Physical Chemistry C, 2011, 115, 8918-8922.	1.5	31
16	High-temperature superconductivity in ternary clathrate YCaH₁₂ under high pressures. Journal of Physics Condensed Matter, 2019, 31, 245404.	0.7	31
17	A New Carbon Phase Constructed by Longâ€Range Ordered Carbon Clusters from Compressing C₇₀ Solvates. Advanced Materials, 2014, 26, 7257-7263.	11.1	29
18	Intrinsic and Extrinsic Responses of ZIF-8 under High Pressure: A Combined Raman and X-ray Diffraction Investigation. Journal of Physical Chemistry C, 2019, 123, 29693-29707.	1.5	24

#	Article	IF	Citations
19	SERS Selective Enhancement on Monolayer MoS₂ Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. ACS Applied Materials & Interfaces, 2021, 13, 26551-26560.	4.0	23
20	Pressure-Driven Topological Transformations of Iodine Confined in One-Dimensional Channels. Journal of Physical Chemistry C, 2013, 117, 25052-25058.	1.5	21
21	High Energetic Polymeric Nitrogen Stabilized in the Confinement of Boron Nitride Nanotube at Ambient Conditions. Journal of Physical Chemistry C, 2016, 120, 16412-16417.	1.5	21
22	Crossover from metal to insulator in dense lithium-rich compound CLi ₄. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2366-2369.	3.3	21
23	Band-gap engineering and structure evolution of confined long linear carbon chains@double-walled carbon nanotubes under pressure. Carbon, 2020, 159, 266-272.	5.4	20
24	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. Carbon, 2021, 172, 138-143.	5.4	20
25	Ground state structures of tantalum tetraboride and triboride: an ab initio study. Physical Chemistry Chemical Physics, 2016, 18, 18074-18080.	1.3	19
26	New Ordered Structure of Amorphous Carbon Clusters Induced by Fullereneâ€“Cubane Reactions. Advanced Materials, 2018, 30, e1706916.	11.1	18
27	Effect of electrons scattered by optical phonons on superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> () Tj ETQq1 1 0.784314 rgBT /Ov	1.1	17
28	In situ Raman and photoluminescence study on pressureâ€induced phase transition in C 60 nanotubes. Journal of Raman Spectroscopy, 2012, 43, 737-740.	1.2	15
29	High pressure and high temperature induced polymerization of C60 nanotubes. CrystEngComm, 2011, 13, 3600.	1.3	14
30	Structural transformation of confined iodine in the elliptical channels of AlPO4-11 crystals under high pressure. Physical Chemistry Chemical Physics, 2014, 16, 8301.	1.3	14
31	High energetic polymeric nitrogen sheet confined in a graphene matrix. RSC Advances, 2018, 8, 30912-30918.	1.7	14
32	Structural stability and electronic property in K₂S under pressure. RSC Advances, 2017, 7, 7424-7430.	1.7	13
33	Insertion of N2 into the Channels of AFI Zeolite under High Pressure. Scientific Reports, 2015, 5, 13234.	1.6	12
34	Photoluminescence changes of C70 nano/submicro-crystals induced by high pressure and high temperature. Scientific Reports, 2016, 6, 38470.	1.6	10
35	Pressure-induced phase transition of SnH₄: a new layered structure. RSC Advances, 2016, 6, 10456-10461.	1.7	10
36	In situ low-temperature Raman studies of iodine molecules confined in the one-dimensional channels of AlPO 4 -5 crystals. Microporous and Mesoporous Materials, 2016, 221, 76-80.	2.2	7

#	Article	IF	Citations
37	Effect of C₇₀ rotation on the photoluminescence spectra of compressed C₇₀*mesitylene. Journal of Raman Spectroscopy, 2017, 48, 437-442.	1.2	7
38	A high pressure Raman study on confined individual iodine molecules as molecular probes of structural collapse in the AlPO₄-5 framework. Physical Chemistry Chemical Physics, 2018, 20, 26117-26125.	1.3	7
39	Vibrational Properties and Polymerization of Corannulene under Pressure, Probed by Raman and Infrared Spectroscopies. Journal of Physical Chemistry C, 2019, 123, 23674-23681.	1.5	7
40	High temperature driven transformation of iodine species in AFI and AEL channels: A comparative study. Microporous and Mesoporous Materials, 2019, 290, 109682.	2.2	7
41	Pressure induced transformation and subsequent amorphization of monoclinic Nb₂O₅ and its effect on optical properties. Journal of Physics Condensed Matter, 2019, 31, 105401.	0.7	7
42	Transformations of iodine species inside elliptical channels of AlPO₄ -11 crystals at low temperature: a Raman study. Journal of Raman Spectroscopy, 2015, 46, 400-405.	1.2	6
43	High pressure infrared spectroscopy study on C60âˆ—CS2 solvates. Chemical Physics Letters, 2017, 669, 49-53.	1.2	5
44	Unexpected stable stoichiometries and superconductivity of potassium-rich sulfides. RSC Advances, 2017, 7, 44884-44889.	1.7	5
45	Evolution of hydrogen dissolution and superconductivity in Re-based solid solutions under pressure studied by ab initio calculations. Physical Review B, 2021, 103, .	1.1	5
46	Unexpected photoluminescence properties from one-dimensional molecular chains. Nanoscale, 2016, 8, 1456-1461.	2.8	4
47	Pressureâ€induced insertion and transformation of N₂ in the cavities of zeolitic imidazolate frameworkâ€8: A Raman study. Journal of Raman Spectroscopy, 2020, 51, 1230-1239.	1.2	2
48	Synthesis and high pressure studies of white luminescence hostâ€“guest complex nanocrystals based on C60 and p-But-calix[8]arene. Nanotechnology, 2020, 31, 165701.	1.3	1
49	A first-principles study on crystal structures and metallization of sodium-rich sulfides under high pressure. Journal of Physics Condensed Matter, 2022, , .	0.7	0