

Bingbing Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2467533/bingbing-liu-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,581
citations

17
h-index

39
g-index

49
ext. papers

1,924
ext. citations

6.6
avg, IF

4.12
L-index

#	Paper	IF	Citations
47	Pressure-induced metallization of dense (HS)H ₂ with high-T _c superconductivity. <i>Scientific Reports</i> , 2014 , 4, 6968	4.9	502
46	Long-range ordered carbon clusters: a crystalline material with amorphous building blocks. <i>Science</i> , 2012 , 337, 825-8	33.3	137
45	Highly Enhanced Luminescence from Single-Crystalline C ₆₀ m-xylene Nanorods. <i>Chemistry of Materials</i> , 2006 , 18, 4190-4194	9.6	104
44	Superconducting high-pressure phases of disilane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9969-73	11.5	91
43	Size-dependent amorphization of nanoscale Y ₂ O ₃ at high pressure. <i>Physical Review Letters</i> , 2010 , 105, 095701	7.4	87
42	Raman signature to identify the structural transition of single-wall carbon nanotubes under high pressure. <i>Physical Review B</i> , 2008 , 78,	3.3	71
41	Novel Superhard sp ³ Carbon Allotrope from Cold-Compressed C ₇₀ Peapods. <i>Physical Review Letters</i> , 2017 , 118, 245701	7.4	69
40	Pressure-Induced Amorphization and Polyamorphism in One-Dimensional Single-Crystal TiO ₂ Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 309-314	6.4	59
39	Divergent synthesis routes and superconductivity of ternary hydride MgSiH ₆ at high pressure. <i>Physical Review B</i> , 2017 , 96,	3.3	32
38	Tailoring Building Blocks and Their Boundary Interaction for the Creation of New, Potentially Superhard, Carbon Materials. <i>Advanced Materials</i> , 2015 , 27, 3962-8	24	30
37	Orthorhombic C ₁₄ carbon: A novel superhard sp ³ carbon allotrope. <i>Carbon</i> , 2020 , 156, 309-312	10.4	29
36	A new carbon phase constructed by long-range ordered carbon clusters from compressing C ₇₀ solvates. <i>Advanced Materials</i> , 2014 , 26, 7257-63	24	27
35	Pressure-Induced Phase Transitions of C ₇₀ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8918-8922	9.2	27
34	Prediction of superconducting ternary hydride MgGeH: from divergent high-pressure formation routes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27406-27412	3.6	26
33	Pressure-induced SERS enhancement in a MoS ₂ /Au/R6G system by a two-step charge transfer process. <i>Nanoscale</i> , 2019 , 11, 21493-21501	7.7	25
32	High Energetic Polymeric Nitrogen Stabilized in the Confinement of Boron Nitride Nanotube at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16412-16417	3.8	19
31	Pressure-Driven Topological Transformations of Iodine Confined in One-Dimensional Channels. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25052-25058	3.8	19

30	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. <i>Physical Review Letters</i> , 2020 , 124, 065701	7.4	17
29	In situ Raman and photoluminescence study on pressure-induced phase transition in C60 nanotubes. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 737-740	2.3	15
28	New Ordered Structure of Amorphous Carbon Clusters Induced by Fullerene-Cubane Reactions. <i>Advanced Materials</i> , 2018 , 30, e1706916	24	14
27	Crossover from metal to insulator in dense lithium-rich compound CLi4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2366-9	11.5	14
26	High pressure and high temperature induced polymerization of C60 nanotubes. <i>CrystEngComm</i> , 2011 , 13, 3600	3.3	14
25	Structural transformation of confined iodine in the elliptical channels of AlPO(4)-11 crystals under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8301-9	3.6	12
24	Band-gap engineering and structure evolution of confined long linear carbon chains@double-walled carbon nanotubes under pressure. <i>Carbon</i> , 2020 , 159, 266-272	10.4	12
23	Effect of electrons scattered by optical phonons on superconductivity in MH3 (M=S, Ti, V, Se). <i>Physical Review B</i> , 2018 , 98,	3.3	11
22	High-temperature superconductivity in ternary clathrate YCaH under high pressures. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 245404	1.8	10
21	Intrinsic and Extrinsic Responses of ZIF-8 under High Pressure: A Combined Raman and X-ray Diffraction Investigation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29693-29707	3.8	10
20	Insertion of N2 into the Channels of AFI Zeolite under High Pressure. <i>Scientific Reports</i> , 2015 , 5, 13234	4.9	9
19	High energetic polymeric nitrogen sheet confined in a graphene matrix.. <i>RSC Advances</i> , 2018 , 8, 30912-30918	3.9	9
18	Structural stability and electronic property in K2S under pressure. <i>RSC Advances</i> , 2017 , 7, 7424-7430	3.7	8
17	Ground state structures of tantalum tetraboride and triboride: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18074-80	3.6	8
16	Photoluminescence changes of C nano/submicro-crystals induced by high pressure and high temperature. <i>Scientific Reports</i> , 2016 , 6, 38470	4.9	7
15	Pressure-induced phase transition of SnH4: a new layered structure. <i>RSC Advances</i> , 2016 , 6, 10456-10461	3.7	6
14	Effect of C70 rotation on the photoluminescence spectra of compressed C70*mesitylene. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 437-442	2.3	6
13	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. <i>Carbon</i> , 2021 , 172, 138-143	10.4	6

12	High pressure infrared spectroscopy study on C60*CS2 solvates. <i>Chemical Physics Letters</i> , 2017 , 669, 49-53	2.5	5
11	In situ low-temperature Raman studies of iodine molecules confined in the one-dimensional channels of AlPO 4 -5 crystals. <i>Microporous and Mesoporous Materials</i> , 2016 , 221, 76-80	5.3	5
10	Transformations of iodine species inside elliptical channels of AlPO4-11 crystals at low temperature: a Raman study. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 400-405	2.3	5
9	SERS Selective Enhancement on Monolayer MoS Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26551-26560	9.5	5
8	Vibrational Properties and Polymerization of Corannulene under Pressure, Probed by Raman and Infrared Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23674-23681	3.8	4
7	Pressure induced transformation and subsequent amorphization of monoclinic NbO and its effect on optical properties. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 105401	1.8	4
6	A high pressure Raman study on confined individual iodine molecules as molecular probes of structural collapse in the AlPO-5 framework. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26117-26125 ^{3.6}	3.6	4
5	High temperature driven transformation of iodine species in AFI and AEL channels: A comparative study. <i>Microporous and Mesoporous Materials</i> , 2019 , 290, 109682	5.3	3
4	Unexpected photoluminescence properties from one-dimensional molecular chains. <i>Nanoscale</i> , 2016 , 8, 1456-61	7.7	3
3	Unexpected stable stoichiometries and superconductivity of potassium-rich sulfides. <i>RSC Advances</i> , 2017 , 7, 44884-44889	3.7	1
2	Synthesis and high pressure studies of white luminescence host-guest complex nanocrystals based on C and p-But-calix[8]arene. <i>Nanotechnology</i> , 2020 , 31, 165701	3.4	0
1	Pressure-induced insertion and transformation of N2 in the cavities of zeolitic imidazolate framework-8: A Raman study. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1230-1239	2.3	0