

Bingbing Liu

List of Publications by Year in Descending Order

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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	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
46	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. <i>Carbon</i> , 2021 , 172, 138-143	10.4	6
45	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. <i>Physical Review Letters</i> , 2020 , 124, 065701	7.4	17
44	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
43	Pressure-induced insertion and transformation of N ₂ in the cavities of zeolitic imidazolate framework-8: A Raman study. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1230-1239	2.3	0
42	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
41	Orthorhombic C14 carbon: A novel superhard sp ³ carbon allotrope. <i>Carbon</i> , 2020 , 156, 309-312	10.4	29
40	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
39	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
38	High-temperature superconductivity in ternary clathrate YCaH under high pressures. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 245404	1.8	10
37	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
36	Pressure-induced SERS enhancement in a MoS/Au/R6G system by a two-step charge transfer process. <i>Nanoscale</i> , 2019 , 11, 21493-21501	7.7	25
35	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
34	New Ordered Structure of Amorphous Carbon Clusters Induced by Fullerene-Cubane Reactions. <i>Advanced Materials</i> , 2018 , 30, e1706916	24	14
33	Effect of electrons scattered by optical phonons on superconductivity in MH ₃ (M=S, Ti, V, Se). <i>Physical Review B</i> , 2018 , 98,	3.3	11
32	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
31	High energetic polymeric nitrogen sheet confined in a graphene matrix.. <i>RSC Advances</i> , 2018 , 8, 30912-30918	3.9	9

30	High pressure infrared spectroscopy study on C ₆₀ *CS ₂ solvates. <i>Chemical Physics Letters</i> , 2017 , 669, 49-53	2.5	5
29	Divergent synthesis routes and superconductivity of ternary hydride MgSiH ₆ at high pressure. <i>Physical Review B</i> , 2017 , 96,	3.3	32
28	Structural stability and electronic property in K ₂ S under pressure. <i>RSC Advances</i> , 2017 , 7, 7424-7430	3.7	8
27	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
26	Unexpected stable stoichiometries and superconductivity of potassium-rich sulfides. <i>RSC Advances</i> , 2017 , 7, 44884-44889	3.7	1
25	Novel Superhard sp ³ Carbon Allotrope from Cold-Compressed C ₇₀ Peapods. <i>Physical Review Letters</i> , 2017 , 118, 245701	7.4	69
24	Effect of C ₇₀ rotation on the photoluminescence spectra of compressed C ₇₀ *mesitylene. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 437-442	2.3	6
23	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
22	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
21	Pressure-induced phase transition of SnH ₄ : a new layered structure. <i>RSC Advances</i> , 2016 , 6, 10456-10461	3.7	6
20	Unexpected photoluminescence properties from one-dimensional molecular chains. <i>Nanoscale</i> , 2016 , 8, 1456-61	7.7	3
19	Crossover from metal to insulator in dense lithium-rich compound CLi ₄ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2366-9	11.5	14
18	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
17	Photoluminescence changes of C nano/submicro-crystals induced by high pressure and high temperature. <i>Scientific Reports</i> , 2016 , 6, 38470	4.9	7
16	Insertion of N ₂ into the Channels of AFI Zeolite under High Pressure. <i>Scientific Reports</i> , 2015 , 5, 13234	4.9	9
15	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
14	Transformations of iodine species inside elliptical channels of AlPO ₄₋₁₁ crystals at low temperature: a Raman study. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 400-405	2.3	5
13	Pressure-induced metallization of dense (HS)H ₂ O with high-T _c superconductivity. <i>Scientific Reports</i> , 2014 , 4, 6968	4.9	502

12	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
11	A new carbon phase constructed by long-range ordered carbon clusters from compressing C70 solvates. <i>Advanced Materials</i> , 2014 , 26, 7257-63	24	27
10	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
9	Long-range ordered carbon clusters: a crystalline material with amorphous building blocks. <i>Science</i> , 2012 , 337, 825-8	33.3	137
8	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
7	High pressure and high temperature induced polymerization of C60 nanotubes. <i>CrystEngComm</i> , 2011 , 13, 3600	3.3	14
6	Pressure-Induced Phase Transitions of C70 Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8918-8922	3.2	27
5	Pressure-Induced Amorphization and Polyamorphism in One-Dimensional Single-Crystal TiO2 Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 309-314	6.4	59
4	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
3	Size-dependent amorphization of nanoscale Y2O3 at high pressure. <i>Physical Review Letters</i> , 2010 , 105, 095701	7.4	87
2	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
1	Highly Enhanced Luminescence from Single-Crystalline C60-m-xylene Nanorods. <i>Chemistry of Materials</i> , 2006 , 18, 4190-4194	9.6	104