

Mingguang Yao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhanced Relaxor Behavior and Energy Storage Properties in $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ -Based Ceramics by Doping the Complex Ions ($\text{Al}_{0.5}\text{Nb}_{0.5}$) ⁴⁺ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219.	1.8	2
2	Enhanced energy storage and photoluminescence properties in ErBiO_3 -doped ($\text{Na}_{0.5}\text{Bi}_{0.5}$) TiO_3 - SrTiO_3 ceramics. <i>Journal of Materials Science</i> , 2022, 57, 229-240.	3.7	4
3	Structural Evolution of $\text{D}_{5h}(1)\text{-C}_{90}$ under High Pressure: A Mediate Allotrope of Nanocarbon from Zero-Dimensional Fullerene to One-Dimensional Nanotube. <i>Chinese Physics Letters</i> , 2022, 39, 056101.	3.3	2
4	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. <i>Carbon</i> , 2021, 172, 138-143.	10.3	20
5	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	2
6	SERS Selective Enhancement on Monolayer MoS_2 Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26551-26560.	8.0	23
7	Molecular insertion regulates the donor-acceptor interactions in cocrystals for the design of piezochromic luminescent materials. <i>Nature Communications</i> , 2021, 12, 4084.	12.8	41
8	Ultrahard bulk amorphous carbon from collapsed fullerene. <i>Nature</i> , 2021, 599, 599-604.	27.8	99
9	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.	10.3	20
10	Significantly narrowed bandgap and enhanced charge separation in porous, nitrogen-vacancy red g-C ₃ N ₄ for visible light photocatalytic H ₂ production. <i>Applied Surface Science</i> , 2020, 504, 144407.	6.1	36
11	Pressure tuned photoluminescence and band gap in two-dimensional layered g-C ₃ N ₄ : the effect of interlayer interactions. <i>Nanoscale</i> , 2020, 12, 12300-12307.	5.6	25
12	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. <i>Physical Review Letters</i> , 2020, 124, 065701.	7.8	41
13	Negative Volume Compressibility in $\text{Sc}_3\text{N}@C_{80}$ "Cubane Cocrystal with Charge Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 7584-7590.	13.7	20
14	One-step synthesis of few layers g-C ₃ N ₄ with suitable band structure and enhanced photocatalytic activities. <i>Chemical Physics Letters</i> , 2019, 732, 136613.	2.6	6
15	Pressure-Induced Emission Enhancement and Multicolor Emission for 1,2,3,4-Tetraphenyl-1,3-cyclopentadiene: Controlled Structure Evolution. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5557-5562.	4.6	33
16	Study on disordered graphitic nanocarbon under pressure and their transformation into polycrystalline nanodiamond. <i>Chemical Physics Letters</i> , 2019, 730, 491-496.	2.6	2
17	Transparent aerogel-like diamond nanofilms from glassy carbon by high pressure and high temperature. <i>Diamond and Related Materials</i> , 2019, 96, 90-96.	3.9	6
18	Crystallized phosphorus/carbon composites with tunable P C bonds by high pressure and high temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 130, 250-255.	4.0	6

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19	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.	5.6	48
20	Increasing Interlayer Coupling Prevented the Deformation in Compressed Multilayer WSe ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 10261-10266.	3.1	5
21	New Ordered Structure of Amorphous Carbon Clusters Induced by Fullerene-Cubane Reactions. <i>Advanced Materials</i> , 2018, 30, e1706916.	21.0	18
22	Tuning the band gap and the nitrogen content in carbon nitride materials by high temperature treatment at high pressure. <i>Carbon</i> , 2018, 130, 170-177.	10.3	29
23	Ordered Amorphous Carbon: New Ordered Structure of Amorphous Carbon Clusters Induced by Fullerene-Cubane Reactions (<i>Adv. Mater.</i> 22/2018). <i>Advanced Materials</i> , 2018, 30, 1870156.	21.0	0
24	Direct Conversion of Graphene Aerogel into Low-Density Diamond Aerogel Composed of Ultrasmall Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13193-13198.	3.1	9
25	Graphdiyne under pressure: A Raman study. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	10
26	Raman study of graphene nanoribbon analogs confined in single-walled carbon nanotubes and their high-pressure transformations. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 951-957.	2.5	4
27	Remarkable cycle-activated capacity increasing in onion-like carbon nanospheres as lithium battery anode material. <i>Nanotechnology</i> , 2017, 28, 035704.	2.6	7
28	Uniaxial-stress-driven transformation in cold compressed glassy carbon. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	25
29	Superhard three-dimensional carbon with metallic conductivity. <i>Carbon</i> , 2017, 123, 311-317.	10.3	61
30	Novel Superhard Carbon Allotrope from Cold-Compressed Peapods. <i>Physical Review Letters</i> , 2017, 118, 245701.	7.8	100
31	Effect of C ₇₀ rotation on the photoluminescence spectra of compressed C ₇₀ *mesitylene. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 437-442.	2.5	7
32	Pressure-induced transformations in carbon nano-onions. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	10
33	Structural Stability and Deformation of Solvated Sm@C ₂ (42)-C ₉₀ under High Pressure. <i>Scientific Reports</i> , 2016, 6, 31213.	3.3	5
34	Unexpected photoluminescence properties from one-dimensional molecular chains. <i>Nanoscale</i> , 2016, 8, 1456-1461.	5.6	4
35	Tailoring Building Blocks and Their Boundary Interaction for the Creation of New, Potentially Superhard, Carbon Materials. <i>Advanced Materials</i> , 2015, 27, 3962-3968.	21.0	34
36	Ac impedance of A ₄ C ₆₀ fullerides under pressure. <i>New Journal of Physics</i> , 2015, 17, 023010.	2.9	5

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37	Pressure-induced transformations of onion-like carbon nanospheres up to 48 GPa. <i>Journal of Chemical Physics</i> , 2015, 142, 034702.	3.0	17
38	Acoustic and elastic properties of silicone oil under high pressure. <i>RSC Advances</i> , 2015, 5, 38056-38060.	3.6	5
39	Polarized Raman Study of Aligned Multiwalled Carbon Nanotubes Arrays under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27759-27767.	3.1	15
40	The effect of hydrogenation on the growth of carbon nanospheres and their performance as anode materials for rechargeable lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 1984-1993.	5.6	18
41	A New Carbon Phase Constructed by Long-Range Ordered Carbon Clusters from Compressing C_{70} Solvates. <i>Advanced Materials</i> , 2014, 26, 7257-7263.	21.0	29
42	Transparent, superhard amorphous carbon phase from compressing glassy carbon. <i>Applied Physics Letters</i> , 2014, 104, 021916.	3.3	34
43	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.	2.8	14
44	Pressure-induced transformation and superhard phase in fullerenes: The effect of solvent intercalation. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	29
45	Facile synthesis of hydrogenated carbon nanospheres with a graphite-like ordered carbon structure. <i>Nanoscale</i> , 2013, 5, 11306.	5.6	36
46	Pressure-Driven Topological Transformations of Iodine Confined in One-Dimensional Channels. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25052-25058.	3.1	21
47	Probing factors affecting the Raman modes and structural collapse of single-walled carbon nanotubes under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1370-1375.	1.5	4
48	In situ Raman and photoluminescence study on pressure-induced phase transition in C_{60} nanotubes. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 737-740.	2.5	15
49	High pressure studies of alkali metal doped fullerides A_4C_{60} . <i>Diamond and Related Materials</i> , 2011, 20, 600-603.	3.9	5
50	Raman study of the electron-phonon interaction in light alkali metal intercalated metallic fullerides. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 115701.	1.8	4
51	Pressure-induced transformation in Na_4C_{60} polymer: X-ray diffraction and Raman scattering experiments. <i>Physical Review B</i> , 2011, 84, .	3.2	17
52	Reversible nano-scale phase separation of Rb_4C_{60} under pressure. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012020.	0.4	2
53	Laser-induced transformation of Li_4C_{60} and Na_4C_{60} polymers into metallic monomeric fulleride phases. <i>Chemical Physics Letters</i> , 2010, 489, 64-68.	2.6	2
54	Effect of high pressure on electrical transport in the Li_4C_{60} polymer from 100 to 400 K. <i>Physical Review B</i> , 2010, 81, .	3.2	11

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55	Rotational dynamics of confined C ₆₀ from near-infrared Raman studies under high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22135-22138.	7.1	43
56	Electrical transport properties of A ₄ C ₆₀ (A=Li, Na, and Rb) under pressure. High Pressure Research, 2008, 28, 597-600.	1.2	7
57	Raman signature to identify the structural transition of single-wall carbon nanotubes under high pressure. Physical Review B, 2008, 78, .	3.2	79
58	Highly Enhanced Luminescence from Single-Crystalline C ₆₀ ·1m-xylene Nanorods. Chemistry of Materials, 2006, 18, 4190-4194.	6.7	117
59	Photoluminescence properties of high-pressure-polymerized C ₆₀ nanorods in the orthorhombic and tetragonal phases. Applied Physics Letters, 2006, 89, 181925.	3.3	14