Mingguang Yao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3016572/publications.pdf

Version: 2024-02-01

		361413	361022
59	1,307	20	35
papers	citations	h-index	g-index
=-		=-	7.40.6
59	59	59	1426
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Highly Enhanced Luminescence from Single-Crystalline C60·1m-xylene Nanorods. Chemistry of Materials, 2006, 18, 4190-4194. Novel Superhard <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>6.7</td><td>117</td></mml:math>	6.7	117
2	display="inline"> <mml:mrow><mml:mi>s</mml:mi><mml:msup><mml:mi>p</mml:mi><mml:mn>3</mml:mn> Carbon Allotrope from Cold-Compressed <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mrow></mml:mrow></mml:msub></mml:mrow></mml:math></mml:msup></mml:mrow> <td>7.8</td> <td>100</td>	7.8	100
3	Peapods. Physical Review Letters, 2017, 118, 245701. Ultrahard bulk amorphous carbon from collapsed fullerene. Nature, 2021, 599, 599-604.	27.8	99
4	Raman signature to identify the structural transition of single-wall carbon nanotubes under high pressure. Physical Review B, 2008, 78, .	3.2	79
5	Superhard three-dimensional carbon with metallic conductivity. Carbon, 2017, 123, 311-317.	10.3	61
6	Pressure-induced SERS enhancement in a MoS ₂ /Au/R6G system by a two-step charge transfer process. Nanoscale, 2019, 11, 21493-21501.	5.6	48
7	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
8	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. Physical Review Letters, 2020, 124, 065701.	7.8	41
9	Molecular insertion regulates the donor-acceptor interactions in cocrystals for the design of piezochromic luminescent materials. Nature Communications, 2021, 12, 4084.	12.8	41
10	Facile synthesis of hydrogenated carbon nanospheres with a graphite-like ordered carbon structure. Nanoscale, 2013, 5, 11306.	5.6	36
11	Significantly narrowed bandgap and enhanced charge separation in porous, nitrogen-vacancy red g-C3N4 for visible light photocatalytic H2 production. Applied Surface Science, 2020, 504, 144407.	6.1	36
12	Transparent, superhard amorphous carbon phase from compressing glassy carbon. Applied Physics Letters, 2014, 104, 021916.	3.3	34
13	Tailoring Building Blocks and Their Boundary Interaction for the Creation of New, Potentially Superhard, Carbon Materials. Advanced Materials, 2015, 27, 3962-3968.	21.0	34
14	Pressure-Induced Emission Enhancement and Multicolor Emission for 1,2,3,4-Tetraphenyl-1,3-cyclopentadiene: Controlled Structure Evolution. Journal of Physical Chemistry Letters, 2019, 10, 5557-5562.	4.6	33
15	Pressure-induced transformation and superhard phase in fullerenes: The effect of solvent intercalation. Applied Physics Letters, 2013, 103, .	3.3	29
16	A New Carbon Phase Constructed by Longâ∈Range Ordered Carbon Clusters from Compressing C ₇₀ Solvates. Advanced Materials, 2014, 26, 7257-7263.	21.0	29
17	Tuning the band gap and the nitrogen content in carbon nitride materials by high temperature treatment at high pressure. Carbon, 2018, 130, 170-177.	10.3	29
18	Uniaxial-stress-driven transformation in cold compressed glassy carbon. Applied Physics Letters, 2017, 111, .	3.3	25

#	Article	IF	CITATIONS
19	Pressure tuned photoluminescence and band gap in two-dimensional layered g-C ₃ N ₄ : the effect of interlayer interactions. Nanoscale, 2020, 12, 12300-12307.	5.6	25
20	SERS Selective Enhancement on Monolayer MoS ₂ Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. ACS Applied Materials & Samp; Interfaces, 2021, 13, 26551-26560.	8.0	23
21	Pressure-Driven Topological Transformations of Iodine Confined in One-Dimensional Channels. Journal of Physical Chemistry C, 2013, 117, 25052-25058.	3.1	21
22	Band-gap engineering and structure evolution of confined long linear carbon chains@double-walled carbon nanotubes under pressure. Carbon, 2020, 159, 266-272.	10.3	20
23	Negative Volume Compressibility in Sc ₃ N@C ₈₀ –Cubane Cocrystal with Charge Transfer. Journal of the American Chemical Society, 2020, 142, 7584-7590.	13.7	20
24	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. Carbon, 2021, 172, 138-143.	10.3	20
25	The effect of hydrogenation on the growth of carbon nanospheres and their performance as anode materials for rechargeable lithium-ion batteries. Nanoscale, 2015, 7, 1984-1993.	5.6	18
26	New Ordered Structure of Amorphous Carbon Clusters Induced by Fullerene–Cubane Reactions. Advanced Materials, 2018, 30, e1706916.	21.0	18
27	Pressure-induced transformation in Na <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math> <mml:msub><mml:mrow></mml:mrow><mml:msub></mml:msub></mml:msub> <td>3.2</td> <td>17</td>	3.2	17
28	Pressure-induced transformations of onion-like carbon nanospheres up to 48 GPa. Journal of Chemical Physics, 2015, 142, 034702.	3.0	17
29	In situ Raman and photoluminescence study on pressureâ€induced phase transition in C 60 nanotubes. Journal of Raman Spectroscopy, 2012, 43, 737-740.	2.5	15
30	Polarized Raman Study of Aligned Multiwalled Carbon Nanotubes Arrays under High Pressure. Journal of Physical Chemistry C, 2015, 119, 27759-27767.	3.1	15
31	Photoluminescence properties of high-pressure-polymerized C60 nanorods in the orthorhombic and tetragonal phases. Applied Physics Letters, 2006, 89, 181925.	3.3	14
32	Structural transformation of confined iodine in the elliptical channels of AlPO4-11 crystals under high pressure. Physical Chemistry Chemical Physics, 2014, 16, 8301.	2.8	14
33	Effect of high pressure on electrical transport in the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Li</mml:mtext></mml:mrow><mml:mn>4< polymer from 100 to 400 K, Physical Review B, 2010, 81</mml:mn></mml:msub></mml:mrow></mml:math>	:/miml:mn>	> <∱mml:msu
34	Pressure-induced transformations in carbon nano-onions. Journal of Applied Physics, 2016, 119, .	2.5	10
35	Graphdiyne under pressure: A Raman study. Applied Physics Letters, 2018, 113, .	3.3	10
36	Direct Conversion of Graphene Aerogel into Low-Density Diamond Aerogel Composed of Ultrasmall Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 13193-13198.	3.1	9

#	Article	IF	CITATIONS
37	Electrical transport properties of <i>A</i> ₄ C ₆₀ (<i>A</i> =Li, Na, and Rb) under pressure. High Pressure Research, 2008, 28, 597-600.	1.2	7
38	Remarkable cycle-activated capacity increasing in onion-like carbon nanospheres as lithium battery anode material. Nanotechnology, 2017, 28, 035704.	2.6	7
39	Effect of C ₇₀ rotation on the photoluminescence spectra of compressed C ₇₀ *mesitylene. Journal of Raman Spectroscopy, 2017, 48, 437-442.	2.5	7
40	One-step synthesis of few layers g-C3N4 with suitable band structure and enhanced photocatalytic activities. Chemical Physics Letters, 2019, 732, 136613.	2.6	6
41	Transparent aerogel-like diamond nanofilms from glassy carbon by high pressure and high temperature. Diamond and Related Materials, 2019, 96, 90-96.	3.9	6
42	Crystallized phosphorus/carbon composites with tunable P C bonds by high pressure and high temperature. Journal of Physics and Chemistry of Solids, 2019, 130, 250-255.	4.0	6
43	High pressure studies of alkali metal doped fullerides A4C60. Diamond and Related Materials, 2011, 20, 600-603.	3.9	5
44	Ac impedance of A ₄ C ₆₀ fullerides under pressure. New Journal of Physics, 2015, 17, 023010.	2.9	5
45	Acoustic and elastic properties of silicone oil under high pressure. RSC Advances, 2015, 5, 38056-38060.	3.6	5
46	Structural Stability and Deformation of Solvated Sm@C2(42)-C90 under High Pressure. Scientific Reports, 2016, 6, 31213.	3.3	5
47	Increasing Interlayer Coupling Prevented the Deformation in Compressed Multilayer WSe ₂ . Journal of Physical Chemistry C, 2018, 122, 10261-10266.	3.1	5
48	Raman study of the electron–phonon interaction in light alkali metal intercalated metallic fullerides. Journal of Physics Condensed Matter, 2011, 23, 115701.	1.8	4
49	Probing factors affecting the Raman modes and structural collapse of singleâ€walled carbon nanotubes under pressure. Physica Status Solidi (B): Basic Research, 2013, 250, 1370-1375.	1.5	4
50	Unexpected photoluminescence properties from one-dimensional molecular chains. Nanoscale, 2016, 8, 1456-1461.	5.6	4
51	Raman study of graphene nanoribbon analogs confined in singleâ€walled carbon nanotubes and their highâ€pressure transformations. Journal of Raman Spectroscopy, 2017, 48, 951-957.	2.5	4
52	Enhanced energy storage and photoluminescence properties in ErBiO3-doped (Na0.5Bi0.5)TiO3-SrTiO3 ceramics. Journal of Materials Science, 2022, 57, 229-240.	3.7	4
53	Reversible nano-scale phase separation of Rb ₄ C ₆₀ under pressure. Journal of Physics: Conference Series, 2010, 215, 012020.	0.4	2
54	Laser-induced transformation of Li4C60 and Na4C60 polymers into metallic monomeric fulleride phases. Chemical Physics Letters, 2010, 489, 64-68.	2.6	2

#	Article	IF	CITATIONS
55	Study on disordered graphitic nanocarbon under pressure and their transformation into polycrystalline nanodiamond. Chemical Physics Letters, 2019, 730, 491-496.	2.6	2
56	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. Applied Physics Letters, 2021, 118, .	3.3	2
57	Enhanced Relaxor Behavior and Energyâ€Storage Properties in Na _{0.5} Bi _{0.5} TiO ₃ â€Based Ceramics by Doping the Complex Ions (Al _{0.5} Nb _{0.5}) ⁴⁺ . Physica Status Solidi (A) Applications and Materials Science, 2022, 219.	1.8	2
58	Structural Evolution of D $\langle sub \rangle 5h \langle sub \rangle (1)$ -C $\langle sub \rangle 90 \langle sub \rangle$ under High Pressure: A Mediate Allotrope of Nanocarbon from Zero-Dimensional Fullerene to One-Dimensional Nanotube. Chinese Physics Letters, 2022, 39, 056101.	3.3	2
59	Ordered Amorphous Carbon: New Ordered Structure of Amorphous Carbon Clusters Induced by Fullerene-Cubane Reactions (Adv. Mater. 22/2018). Advanced Materials, 2018, 30, 1870156.	21.0	O