List of Publications by Year in descending order

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344 papers	9,849 citations	46918 47 h-index	71532 76 g-index

349 all docs	349 docs citations	349 times ranked	9127 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	Pressure-induced decomposition of solid hydrogen sulfide. Physical Review B, 2015, 91, .	1.1	255
3	Long-Range Ordered Carbon Clusters: A Crystalline Material with Amorphous Building Blocks. Science, 2012, 337, 825-828.	6.0	173
4	Facile fabrication of faceted copper nanocrystals with high catalytic activity for p-nitrophenol reduction. Journal of Materials Chemistry A, 2013, 1, 1632-1638.	5.2	157
5	Luminescence Properties of Compressed Tetraphenylethene: The Role of Intermolecular Interactions. Journal of Physical Chemistry Letters, 2014, 5, 2968-2973.	2.1	154
6	Facile synthesis of ivâ€“vi SnS nanocrystals with shape and size control: Nanoparticles, nanoflowers and amorphous nanosheets. Nanoscale, 2010, 2, 1699.	2.8	119
7	Highly Enhanced Luminescence from Single-Crystalline C60Â·1m-xylene Nanorods. Chemistry of Materials, 2006, 18, 4190-4194.	3.2	117
8	Facile Synthesis of Tin Oxide Nanoflowers: A Potential High-Capacity Lithium-Ion-Storage Material. Langmuir, 2009, 25, 1818-1821.	1.6	109
9	Structure and superconductivity of hydrides at high pressures. National Science Review, 2017, 4, 121-135.	4.6	109
10	Syntheses, Characterizations, and Applications in Lithium Ion Batteries of Hierarchical SnO Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 14140-14144.	1.5	105
11	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
12	Single-Molecule Force Spectroscopy on Poly(acrylic acid) by AFM. Langmuir, 1999, 15, 2120-2124.	1.6	100
13	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
14	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:mrow><mml:mn>70</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Peapods. Physical Review Letters, 2017, 118, 245701.	2.9	100
15	Ultrahard bulk amorphous carbon from collapsed fullerene. Nature, 2021, 599, 599-604.	13.7	99
16	Controlled Synthesis of Hollow Cu_{2â€“x}Te Nanocrystals Based on the Kirkendall Effect and Their Enhanced CO Gasâ€Sensing Properties. Small, 2013, 9, 793-799.	5.2	94
17	A one-step green route to synthesize copper nanocrystals and their applications in catalysis and surface enhanced Raman scattering. Nanoscale, 2014, 6, 5343.	2.8	83
18	Lowest enthalpy polymorph of cold-compressed graphite phase. Physical Chemistry Chemical Physics, 2012, 14, 4347.	1.3	80

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19	Raman signature to identify the structural transition of single-wall carbon nanotubes under high pressure. Physical Review B, 2008, 78, .	1.1	79
20	Ab initiostudy revealing a layered structure in hydrogen-rich KH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>under high pressure. Physical Review B, 2012, 86, .	1.1	79
21	Alkaline-earth metal (Mg) polynitrides at high pressure as possible high-energy materials. Physical Chemistry Chemical Physics, 2017, 19, 9246-9252.	1.3	77
22	Synthesis and growth mechanism of differently shaped C60 nano/microcrystals produced by evaporation of various aromatic C60 solutions. Carbon, 2009, 47, 1181-1188.	5.4	76
23	Recent advances in IVâ€“VI semiconductor nanocrystals: synthesis, mechanism, and applications. RSC Advances, 2013, 3, 8104.	1.7	76
24	Improved Lithiumâ€ion and Sodiumâ€ion Storage Properties from Fewâ€Layered WS₂ Nanosheets Embedded in a Mesoporous CMKâ€3 Matrix. Chemistry - A European Journal, 2017, 23, 7074-7080.	1.7	75
25	Competition between insertion of Li + and Mg 2+ : An example of TiO 2 -B nanowires for Mg rechargeable batteries and Li + /Mg 2+ hybrid-ion batteries. Journal of Power Sources, 2017, 346, 134-142.	4.0	70
26	Synthesis and Mechanism of Particle- and Flower-Shaped ZnSe Nanocrystals: Green Chemical Approaches toward Green Nanoproducts. Journal of Physical Chemistry C, 2008, 112, 7567-7571.	1.5	69
27	Pressure-Induced Amorphization and Polyamorphism in One-Dimensional Single-Crystal TiO₂ Nanomaterials. Journal of Physical Chemistry Letters, 2010, 1, 309-314.	2.1	68
28	Shape and size controlled synthesis and properties of colloidal IVâ€“VI SnSe nanocrystals. CrystEngComm, 2011, 13, 4161.	1.3	68
29	A Novel Polymerization of Nitrogen in Beryllium Tetranitride at High Pressure. Journal of Physical Chemistry C, 2017, 121, 9766-9772.	1.5	67
30	High-temperature superconductivity in sulfur hydride evidenced by alternating-current magnetic susceptibility. National Science Review, 2019, 6, 713-718.	4.6	63
31	Synthesis of High-Density Nanocavities inside TiO₂â^'B Nanoribbons and Their Enhanced Electrochemical Lithium Storage Properties. Inorganic Chemistry, 2008, 47, 9870-9873.	1.9	62
32	Hydrothermal synthesis of Î³-MnOOH nanorods and their conversion to MnO2, Mn2O3, and Mn3O4 nanorods. Journal of Alloys and Compounds, 2015, 644, 430-437.	2.8	62
33	Nitrogen concentration driving the hardness of rhenium nitrides. Scientific Reports, 2014, 4, 4797.	1.6	61
34	Superhard three-dimensional carbon with metallic conductivity. Carbon, 2017, 123, 311-317.	5.4	61
35	Superhard semiconductingC3N2compounds predicted via first-principles calculations. Physical Review B, 2008, 78, .	1.1	60
36	Structural stability of polymeric nitrogen: A first-principles investigation. Journal of Chemical Physics, 2010, 132, 024502.	1.2	60

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37	One-step solution synthesis of bismuth sulfide (Bi₂S₃) with various hierarchical architectures and their photoresponse properties. RSC Advances, 2012, 2, 234-240.	1.7	59
38	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></r high pressure. Physical Review B, 2017, 96, .	1.1	57
39	Synthesis of polyhedron hollow structure Cu2O and their gas-sensing properties. Sensors and Actuators B: Chemical, 2012, 171-172, 135-140.	4.0	56
40	Isolation of Three Isomers of Sm@C₈₄ and X-ray Crystallographic Characterization of Sm@D₃d(19)-C₈₄ and Sm@C₂(13)-C₈₄. Journal of the American Chemical Society, 2012, 134, 5331-5338.	6.6	55
41	Mechanical and metallic properties of tantalum nitrides from first-principles calculations. RSC Advances, 2014, 4, 10133.	1.7	55
42	Stability of Hydrogen-Bonded Supramolecular Architecture under High Pressure Conditions: Pressure-Induced Amorphization in Melamineâ˜Boric Acid Adduct. Langmuir, 2009, 25, 4787-4791.	1.6	54
43	Solution synthesis of copper selenide nanocrystals and their electrical transport properties. CrystEngComm, 2012, 14, 2139.	1.3	54
44	Temperature dependence of band gap in CdSe nanocrystals. Chemical Physics Letters, 2007, 439, 65-68.	1.2	52
45	Pressure-Induced Phase Transition in Hydrogen-Bonded Supramolecular Adduct Formed by Cyanuric Acid and Melamine. Journal of Physical Chemistry B, 2009, 113, 14719-14724.	1.2	52
46	Two-dimensional Penta-BP5 Sheets: High-stability, Strain-tunable Electronic Structure and Excellent Mechanical Properties. Scientific Reports, 2017, 7, 2404.	1.6	52
47	Pressure-Induced Phase Transition in Nâ€“HÂ·Â·Â·O Hydrogen-Bonded Molecular Crystal Oxamide. Journal of Physical Chemistry B, 2012, 116, 9796-9802.	1.2	49
48	Single molecule force spectroscopy on poly(vinyl alcohol) by atomic force microscopy. Macromolecular Rapid Communications, 1998, 19, 609-612.	2.0	48
49	Polymorphism and Formation Mechanism of Nanobipods in Manganese Sulfide Nanocrystals Induced by Temperature or Pressure. Journal of Physical Chemistry C, 2012, 116, 3292-3297.	1.5	48
50	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
51	Cubic C₉₆: a novel carbon allotrope with a porous nanocube network. Journal of Materials Chemistry A, 2015, 3, 10448-10452.	5.2	47
52	Orthorhombic C14 carbon: A novel superhard sp3 carbon allotrope. Carbon, 2020, 156, 309-312.	5.4	47
53	Hexagonal-structured Îµ-NbN: ultra-incompressibility, high shear rigidity and a possible hard superconducting material. Scientific Reports, 2015, 5, 10811.	1.6	46
54	Synthesis and characterization of single-walled nanotubes produced with Ce/Ni as catalysts. Chemical Physics Letters, 2000, 320, 365-372.	1.2	45

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55	Morphology-Tuned Phase Transitions of Anatase TiO₂ Nanowires under High Pressure. Journal of Physical Chemistry C, 2013, 117, 8516-8521.	1.5	45
56	Exploration of the Pyrazinamide Polymorphism at High Pressure. Journal of Physical Chemistry B, 2012, 116, 14441-14450.	1.2	44
57	High pressure transformation of graphene nanoplates: A Raman study. Chemical Physics Letters, 2013, 585, 101-106.	1.2	44
58	Low-temperature synthesis of porous hollow structured Cu2O for photocatalytic activity and gas sensor application. RSC Advances, 2013, 3, 18651.	1.7	44
59	Synthesis and high pressure induced amorphization of C60 nanosheets. Applied Physics Letters, 2007, 91, .	1.5	43
60	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.	3.3	43
61	Selfâ€Assembled CoS Nanoflowers Wrapped in Reduced Graphene Oxides as the Highâ€Performance Anode Materials for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 13150-13157.	1.7	43
62	Synthesis of narrow band gap SnTe nanocrystals: nanoparticles and single crystal nanowires via oriented attachment. CrystEngComm, 2010, 12, 4275.	1.3	42
63	Ultrathin TiO₂-B nanowires as an anode material for Mg-ion batteries based on a surface Mg storage mechanism. Nanoscale, 2017, 9, 12934-12940.	2.8	42
64	Hydrogen bond symmetrization and superconducting phase of HBr and HCl under high pressure: An ab initio study. Journal of Chemical Physics, 2010, 133, 074509.	1.2	41
65	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. Physical Review Letters, 2020, 124, 065701.	2.9	41
66	Molecular insertion regulates the donor-acceptor interactions in cocrystals for the design of piezochromic luminescent materials. Nature Communications, 2021, 12, 4084.	5.8	41
67	Cubic gauche-CN: A superhard metallic compound predicted via first-principles calculations. Journal of Chemical Physics, 2010, 133, 044512.	1.2	40
68	Prediction of superconducting ternary hydride MgGeH₆: from divergent high-pressure formation routes. Physical Chemistry Chemical Physics, 2017, 19, 27406-27412.	1.3	40
69	Pressure-Induced Irreversible Phase Transition in the Energetic Material Urea Nitrate: Combined Raman Scattering and X-ray Diffraction Study. Journal of Physical Chemistry C, 2013, 117, 152-159.	1.5	39
70	Pressure-Induced Phase Transition in Nâ€“HÂ·Â·Â·O Hydrogen-Bonded Molecular Crystal Biurea: Combined Raman Scattering and X-ray Diffraction Study. Journal of Physical Chemistry C, 2014, 118, 15162-15168.	1.5	39
71	Synthesis and high-pressure transformation of metastable wurtzite-structured CuGaS2 nanocrystals. Nanoscale, 2012, 4, 7443.	2.8	38
72	Ternary superconducting cophosphorus hydrides stabilized via lithium. Npj Computational Materials, 2019, 5, .	3.5	38

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73	Colloidal CdSe Nanocrystals Synthesized in Noncoordinating Solvents with the Addition of a Secondary Ligand:Â Exceptional Growth Kinetics. Journal of Physical Chemistry B, 2006, 110, 16508-16513.	1.2	37
74	Ethylene glycol-mediated synthesis of nanoporous anatase TiO2 rods and rutile TiO2 self-assembly chrysanthemums. Journal of Alloys and Compounds, 2009, 471, 477-480.	2.8	36
75	Facile synthesis of hydrogenated carbon nanospheres with a graphite-like ordered carbon structure. Nanoscale, 2013, 5, 11306.	2.8	36
76	Exploration of the Hydrogen-Bonded Energetic Material Carbohydrazide at High Pressures. Journal of Physical Chemistry C, 2014, 118, 22960-22967.	1.5	36
77	Discovery of Superconductivity in Hard Hexagonal Îµ-NbN. Scientific Reports, 2016, 6, 22330.	1.6	36
78	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.	3.1	36
79	New High Pressure Phases of the Znâ€“N System. Journal of Physical Chemistry C, 2020, 124, 4044-4049.	1.5	36
80	Ab initiostudies of solid bromine under high pressure. Physical Review B, 2007, 76, .	1.1	35
81	Size-Controlled Synthesis of Bifunctional Magnetic and Ultraviolet Optical Rock-Salt MnS Nanocube Superlattices. Langmuir, 2012, 28, 17811-17816.	1.6	35
82	Synthesis of single-wall carbon nanotubes and long nanotube ribbons with Ho/Ni as catalyst by arc discharge. Carbon, 2005, 43, 2894-2901.	5.4	34
83	High-Pressure Studies on CeO₂ Nano-Octahedrons with a (111)-Terminated Surface. Journal of Physical Chemistry C, 2011, 115, 4546-4551.	1.5	34
84	Synthesis of differently shaped C70 nano/microcrystals by using various aromatic solvents and their crystallinity-dependent photoluminescence. Carbon, 2012, 50, 209-215.	5.4	34
85	Transparent, superhard amorphous carbon phase from compressing glassy carbon. Applied Physics Letters, 2014, 104, 021916.	1.5	34
86	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
87	Pressure-Induced Structures and Properties in Indium Hydrides. Inorganic Chemistry, 2015, 54, 9924-9928.	1.9	34
88	Bonding Properties of Aluminum Nitride at High Pressure. Inorganic Chemistry, 2017, 56, 7494-7500.	1.9	34
89	Facile synthesis of magic-sized CdSe and CdTe nanocrystals with tunable existence periods. Nanotechnology, 2007, 18, 405603.	1.3	33
90	Pressure-Induced Phase Transition in Hydrogen-Bonded Supramolecular Structure: Guanidinium Nitrate. Journal of Physical Chemistry B, 2010, 114, 6765-6769.	1.2	33

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91	Reversible Polymerization in Doped Fullerides Under Pressure: The Case Of C₆₀(Fe(C₅H₅)₂)₂. Journal of Physical Chemistry B, 2012, 116, 2643-2650.	1.2	33
92	Unexpected Roomâ€Temperature Ferromagnetism in Nanostructured Bi₂Te₃. Angewandte Chemie - International Edition, 2014, 53, 729-733.	7.2	33
93	High pressure structures and superconductivity of AlH₃(H₂) predicted by first principles. RSC Advances, 2015, 5, 5096-5101.	1.7	33
94	Potentially superhard hcp<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cr</mml:mi><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>compound studied at high pressure. Physical Review B, 2016, 93, .	1.1	33
95	Unique Phase Diagram and Superconductivity of Calcium Hydrides at High Pressures. Inorganic Chemistry, 2019, 58, 2558-2564.	1.9	33
96	Large Volume Collapse during Pressure-Induced Phase Transition in Lithium Amide. Journal of Physical Chemistry C, 2012, 116, 9744-9749.	1.5	32
97	Structural phase transition and photoluminescence properties of YF3 and YF3:Eu3+ under high pressure. Physical Chemistry Chemical Physics, 2013, 15, 19925.	1.3	32
98	Novel Allâ€Nitrogen Molecular Crystals of Aromatic N₁₀. Advanced Science, 2020, 7, 1902320.	5.6	32
99	Pressure-Induced Phase Transitions of C₇₀ Nanotubes. Journal of Physical Chemistry C, 2011, 115, 8918-8922.	1.5	31
100	High-temperature superconductivity in ternary clathrate YCaH₁₂ under high pressures. Journal of Physics Condensed Matter, 2019, 31, 245404.	0.7	31
101	New Cadmiumâ€“Nitrogen Compounds at High Pressures. Inorganic Chemistry, 2021, 60, 6772-6781.	1.9	31
102	A new phase of solid iodine with different molecular covalent bonds. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4999-5001.	3.3	30
103	Pressure-Induced Reversible Phase Transformation in Nanostructured Bi₂Te₃ with Reduced Transition Pressure. Journal of Physical Chemistry C, 2015, 119, 3843-3848.	1.5	30
104	Stability of Sulfur Nitrides: A First-Principles Study. Journal of Physical Chemistry C, 2017, 121, 1515-1520.	1.5	30
105	Pressure-induced transformation and superhard phase in fullerenes: The effect of solvent intercalation. Applied Physics Letters, 2013, 103, .	1.5	29
106	Pressure-induced isosymmetric phase transition in sulfamic acid: A combined Raman and x-ray diffraction study. Journal of Chemical Physics, 2013, 138, 214505.	1.2	29
107	A New Carbon Phase Constructed by Longâ€Range Ordered Carbon Clusters from Compressing C₇₀ Solvates. Advanced Materials, 2014, 26, 7257-7263.	11.1	29
108	Modulated T carbon-like carbon allotropes: an ab initio study. RSC Advances, 2014, 4, 17364.	1.7	29

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109	Structural Phase Transition and Photoluminescence Properties of YF₃:Eu³⁺ Nanocrystals under High Pressure. Journal of Physical Chemistry C, 2014, 118, 22739-22745.	1.5	29
110	High-Pressure-Induced Polymorphic Transformation of Maleic Hydrazide. Journal of Physical Chemistry C, 2014, 118, 8122-8127.	1.5	29
111	Structures and Properties of Osmium Hydrides under Pressure from First Principle Calculation. Journal of Physical Chemistry C, 2015, 119, 15905-15911.	1.5	29
112	Structural phase transition and superconductivity hierarchy in 1T-TaS2 under pressure up to 100â€‰GPa. Npj Quantum Materials, 2021, 6, .	1.8	29
113	Pressure-Induced Phase Transitions in Ammonium Squarate: A Supramolecular Structure Based on Hydrogen-Bonding and Ï€-Stacking Interactions. Journal of Physical Chemistry B, 2011, 115, 8981-8988.	1.2	28
114	The Study of Structural Transition of ZnS Nanorods under High Pressure. Journal of Physical Chemistry C, 2011, 115, 357-361.	1.5	28
115	Direct Zircon-to-Scheelite Structural Transformation in YPO₄ and YPO₄:Eu³⁺ Nanoparticles Under High Pressure. Journal of Physical Chemistry C, 2012, 116, 24837-24844.	1.5	28
116	Pressure-induced isostructural phase transition of a metalâ€“organic framework Co₂(4,4â€²-bpy)₃(NO₃)₄Â·xH₂O. CrystEngComm, 2014, 16, 4084-4087.	1.3	28
117	Ultrahard boron-rich tantalum boride: Monoclinic TaB 4. Journal of Alloys and Compounds, 2014, 617, 660-664.	2.8	28
118	Raman spectroscopy study of carbon nanotube peapods excited by near-IR laser under high pressure. Physical Review B, 2007, 76, .	1.1	27
119	Effect of High Pressure on the Typical Supramolecular Structure of Guanidinium Methanesulfonate. Journal of Physical Chemistry B, 2012, 116, 3092-3098.	1.2	27
120	Morphology-controlled synthesis of anisotropic wurtzite MnSe nanocrystals: optical and magnetic properties. CrystEngComm, 2012, 14, 6916.	1.3	27
121	Phase diagram, mechanical properties, and electronic structure of Nbâ€“N compounds under pressure. Physical Chemistry Chemical Physics, 2015, 17, 22837-22845.	1.3	27
122	Investigation of charge-transfer between a 4-mercaptobenzoic acid monolayer and TiO₂nanoparticles under high pressure using surface-enhanced Raman scattering. Chemical Communications, 2018, 54, 6280-6283.	2.2	27
123	Electric resistance of single-walled carbon nanotubes under hydrostatic pressure. Solid State Communications, 2001, 118, 31-36.	0.9	26
124	Synthesis, optical properties and growth process of In2S3 nanoparticles. Journal of Colloid and Interface Science, 2010, 347, 172-176.	5.0	26
125	A facile approach to PbS nanoflowers and their shape-tunable single crystal hollow nanostructures: Morphology evolution. CrystEngComm, 2011, 13, 199-203.	1.3	26
126	Miscibility and ordered structures of MgO-ZnO alloys under high pressure. Scientific Reports, 2014, 4, 5759.	1.6	26

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127	First-principles study on the structural and electronic properties of metallic HfH2 under pressure. Scientific Reports, 2015, 5, 11381.	1.6	26
128	Stability and properties of the Ruâ€“H system at high pressure. Physical Chemistry Chemical Physics, 2016, 18, 1516-1520.	1.3	26
129	Heterostructural MnO₂@NiS₂/Ni(OH)₂ materials for high-performance pseudocapacitor electrodes. RSC Advances, 2017, 7, 44289-44295.	1.7	26
130	Structural and dynamical properties of solid ammonia borane under high pressure. Journal of Chemical Physics, 2011, 134, 024517.	1.2	25
131	High-temperature Superconductivity in compressed Solid Silane. Scientific Reports, 2015, 5, 8845.	1.6	25
132	Uniaxial-stress-driven transformation in cold compressed glassy carbon. Applied Physics Letters, 2017, 111, .	1.5	25
133	Effect of nonhydrostatic pressure on superconductivity of monatomic iodine: Anab initiostudy. Physical Review B, 2009, 79, .	1.1	24
134	Predicted structures and superconductivity of hypothetical Mg-CH4compounds under high pressures. Materials Research Express, 2015, 2, 046001.	0.8	24
135	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
136	Recordâ€High Superconductivity in Transition Metal Dichalcogenides Emerged in Compressed 2Hâ€TaS₂. Advanced Materials, 2022, 34, e2103168.	11.1	24
137	Facile Assembly of Size- and Shape-Tunable IVâ^'VI Nanocrystals into Superlattices. Langmuir, 2010, 26, 19129-19135.	1.6	23
138	Synthesis of dendritic iridium nanostructures based on the oriented attachment mechanism and their enhanced CO and ammonia catalytic activities. Nanoscale, 2014, 6, 15059-15065.	2.8	23
139	p-Aminobenzoic acid polymorphs under high pressures. RSC Advances, 2014, 4, 15534-15541.	1.7	23
140	The low coordination number of nitrogen in hard tungsten nitrides: a first-principles study. Physical Chemistry Chemical Physics, 2015, 17, 13397-13402.	1.3	23
141	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
142	Effect of Rare-Earth Component of the RE/Ni Catalyst on the Formation and Nanostructure of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 15284-15290.	1.2	22
143	Pressure-Induced Phase Transition in Guanidinium Perchlorate: A Supramolecular Structure Directed by Hydrogen Bonding and Electrostatic Interactions. Journal of Physical Chemistry B, 2011, 115, 11816-11822.	1.2	22
144	Facile synthesis of magnetic metal (Mn, Fe, Co, and Ni) oxidesnanocrystalsvia a cation-exchange reaction. Nanoscale, 2011, 3, 741-745.	2.8	22

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145	High-Pressure Formation of Cobalt Polyhydrides: A First-Principle Study. Inorganic Chemistry, 2018, 57, 181-186.	1.9	22
146	Structural Properties and Halogen Bonds of Cyanuric Chloride under High Pressure. Journal of Physical Chemistry B, 2011, 115, 4639-4644.	1.2	21
147	Pressure-Driven Topological Transformations of Iodine Confined in One-Dimensional Channels. Journal of Physical Chemistry C, 2013, 117, 25052-25058.	1.5	21
148	High-Pressure Studies of Abnormal Guest-Dependent Expansion in {[Cu(CO₃)₂](CH₆N₃)₂}_n. Journal of Physical Chemistry C, 2014, 118, 5848-5853.	1.5	21
149	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
150	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
151	Synthesis and Electrochemical Properties of TiO ₂â^'B@C Coreâ^'Shell Nanoribbons. Crystal Growth and Design, 2008, 8, 1812-1814.	1.4	20
152	Pressure-induced metallization and amorphization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi) Tj ETQq0 0 0 rg	1.1	20
153	Physical Review B, 2016, 93, . 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
154	Lithium Pentazolate Synthesized by Laser Heating-Compressed Lithium Azide and Nitrogen. Journal of Physical Chemistry C, 2020, 124, 11825-11830.	1.5	20
155	Negative Volume Compressibility in Sc₃N@C₈₀â€"Cubane Cocrystal with Charge Transfer. Journal of the American Chemical Society, 2020, 142, 7584-7590.	6.6	20
156	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. Carbon, 2021, 172, 138-143.	5.4	20
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