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	Pressureâ€Tailored Band Engineering for Significant Enhancements in the Photoelectric Performance of CsI₃ in the Optical Communication Waveband. Advanced Functional Materials, 2022, 32, 2108636.	7.8	18
2	Recordâ€High Superconductivity in Transition Metal Dichalcogenides Emerged in Compressed 2Hâ€TaS₂. Advanced Materials, 2022, 34, e2103168.	11.1	24
3	An investigation of the effect of high-pressure on charge transfer in dye-sensitized solar cells based on surface-enhanced Raman spectroscopy. Nanoscale, 2022, 14, 373-381.	2.8	2
4	Pressure-stabilized polymerization of nitrogen in manganese nitrides at ambient and high pressures. Physical Chemistry Chemical Physics, 2022, 24, 5738-5747.	1.3	8
5	A first-principles study on crystal structures and metallization of sodium-rich sulfides under high pressure. Journal of Physics Condensed Matter, 2022, , .	0.7	0
6	Size and Shapeâ€™s Effects on the High-Pressure Behavior of WS2 Nanomaterials. Materials, 2022, 15, 2838.	1.3	5
7	Significant pressure-induced enhancement of photoelectric properties of WS₂ in the near-infrared region. Materials Research Letters, 2022, 10, 547-555.	4.1	8
8	Structural Evolution of D _{5h}(1)-C₉₀ under High Pressure: A Mediate Allotrope of Nanocarbon from Zero-Dimensional Fullerene to One-Dimensional Nanotube. Chinese Physics Letters, 2022, 39, 056101.	1.3	2
9	High-Pressure Synthesis and Stability Enhancement of Lithium Pentazolate. Inorganic Chemistry, 2022, 61, 9012-9018.	1.9	2
10	The New High-Pressure Phases of Nitrogen-Rich Agâ€“N Compounds. Materials, 2022, 15, 4986.	1.3	5
11	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. Carbon, 2021, 172, 138-143.	5.4	20
12	Realization of pressure induced emission enhancement for rare earth luminescent materials: Adopting delta-doped structure. Journal of Alloys and Compounds, 2021, 859, 157882.	2.8	1
13	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. Applied Physics Letters, 2021, 118, .	1.5	2
14	Structural phase transition and superconductivity hierarchy in 1T-TaS2 under pressure up to 100â€‰GPa. Npj Quantum Materials, 2021, 6, .	1.8	29
15	New Cadmiumâ€“Nitrogen Compounds at High Pressures. Inorganic Chemistry, 2021, 60, 6772-6781.	1.9	31
16	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
17	Evolution of hydrogen dissolution and superconductivity in Re-based solid solutions under pressure studied by ab initio calculations. Physical Review B, 2021, 103, .	1.1	5
18	High-pressure new phase of AgN₃. Modern Physics Letters B, 2021, 35, 2150386.	1.0	3

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19	Semiconductor-to-metal transition in HfSe2 under high pressure. Journal of Alloys and Compounds, 2021, 867, 158923.	2.8	12
20	Molecular insertion regulates the donor-acceptor interactions in cocrystals for the design of piezochromic luminescent materials. Nature Communications, 2021, 12, 4084.	5.8	41
21	Pressure-Induced Electronic and Structural Transition in Nodal-Line Semimetal ZrSiSe. Inorganic Chemistry, 2021, 60, 11140-11146.	1.9	2
22	High Pressure and High Temperature Induced Polymerization of C₆₀ Solvates: The Effect of Intercalated Aromatic Solvents. Journal of Physical Chemistry C, 2021, 125, 17155-17163.	1.5	3
23	Pressure Engineering for Extending Spectral Response Range and Enhancing Photoelectric Properties of Iodine. Advanced Optical Materials, 2021, 9, 2101163.	3.6	16
24	Cobaltâ€“Nitrogen Compounds at High Pressure. Inorganic Chemistry, 2021, 60, 14022-14030.	1.9	13
25	Ultrahard bulk amorphous carbon from collapsed fullerene. Nature, 2021, 599, 599-604.	13.7	99
26	Orthorhombic C14 carbon: A novel superhard sp3 carbon allotrope. Carbon, 2020, 156, 309-312.	5.4	47
27	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
28	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
29	Effects of pressure on the structure and properties of layered ferromagnetic Cr2Ge2Te6. Physica B: Condensed Matter, 2020, 595, 412344.	1.3	7
30	Lithium Pentazolate Synthesized by Laser Heating-Compressed Lithium Azide and Nitrogen. Journal of Physical Chemistry C, 2020, 124, 11825-11830.	1.5	20
31	Novel Allâ€Nitrogen Molecular Crystals of Aromatic N₁₀. Advanced Science, 2020, 7, 1902320.	5.6	32
32	Decompression-Induced Diamond Formation from Graphite Sheared under Pressure. Physical Review Letters, 2020, 124, 065701.	2.9	41
33	Synthesis and high pressure studies of white luminescence hostâ€“guest complex nanocrystals based on C60 and p-But-calix[8]arene. Nanotechnology, 2020, 31, 165701.	1.3	1
34	New High Pressure Phases of the Znâ€“N System. Journal of Physical Chemistry C, 2020, 124, 4044-4049.	1.5	36
35	Negative Volume Compressibility in Sc₃N@C₈₀â€“Cubane Cocrystal with Charge Transfer. Journal of the American Chemical Society, 2020, 142, 7584-7590.	6.6	20
36	Pressureâ€induced insertion and transformation of N₂ in the cavities of zeolitic imidazolate frameworkâ€8: A Raman study. Journal of Raman Spectroscopy, 2020, 51, 1230-1239.	1.2	2

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37	Evolution of metallization and superconductivity in solid hydrogen. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126571.	0.9	4
38	Size and morphology effects on the high pressure behaviors of Mn₃O₄ nanorods. Nanoscale Advances, 2020, 2, 5841-5847.	2.2	9
39	Structural model of substitutional sulfur in diamond*. Chinese Physics B, 2019, 28, 088102.	0.7	5
40	Ternary superconducting cophosphorus hydrides stabilized via lithium. Npj Computational Materials, 2019, 5, .	3.5	38
41	Vibrational Properties and Polymerization of Corannulene under Pressure, Probed by Raman and Infrared Spectroscopies. Journal of Physical Chemistry C, 2019, 123, 23674-23681.	1.5	7
42	High temperature driven transformation of iodine species in AFI and AEL channels: A comparative study. Microporous and Mesoporous Materials, 2019, 290, 109682.	2.2	7
43	Unexpected calcium polyhydride CaH4: A possible route to dissociation of hydrogen molecules. Journal of Chemical Physics, 2019, 150, 044507.	1.2	17
44	Nonstoichiometric amorphous silicon carbide films as promising antireflection and protective coatings for germanium in IR spectral range. Optical Materials, 2019, 88, 445-450.	1.7	9
45	High-temperature superconductivity in sulfur hydride evidenced by alternating-current magnetic susceptibility. National Science Review, 2019, 6, 713-718.	4.6	63
46	Structural, Electronic, and Optical Properties of ZnO_{1â€‰â€“â€‰x}Te_x Alloys. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900155.	1.2	3
47	Study on disordered graphitic nanocarbon under pressure and their transformation into polycrystalline nanodiamond. Chemical Physics Letters, 2019, 730, 491-496.	1.2	2
48	Crystal structures and decomposing of Bâ€“P compounds under pressure*. Chinese Physics B, 2019, 28, 056101.	0.7	5
49	Structural and electrical properties of Gaâ€“Te systems under high pressure. Chinese Physics B, 2019, 28, 056104.	0.7	6
50	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.	1.9	6
51	Versatile GaInO ₃ -sheet with strain-tunable electronic structure, excellent mechanical flexibility, and an ideal gap for photovoltaics. Chinese Physics B, 2019, 28, 016105.	0.7	6
52	High-temperature superconductivity in ternary clathrate YCaH₁₂ under high pressures. Journal of Physics Condensed Matter, 2019, 31, 245404.	0.7	31
53	Unique Phase Diagram and Superconductivity of Calcium Hydrides at High Pressures. Inorganic Chemistry, 2019, 58, 2558-2564.	1.9	33
54	First principle studies of ZnO1-xSx alloys under high pressure. Journal of Alloys and Compounds, 2019, 788, 905-911.	2.8	6

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55	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
56	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
57	Pressure induced transformation and subsequent amorphization of monoclinic Nb₂O₅ and its effect on optical properties. Journal of Physics Condensed Matter, 2019, 31, 105401.	0.7	7
58	Pressure-Induced Reversible Phase Transitions in a New Metastable Phase of Vanadium Dioxide. Journal of Physical Chemistry C, 2019, 123, 955-962.	1.5	4
59	The hardness mechanism and bonding properties of CrN2: A first principle study. Computational Materials Science, 2019, 158, 282-288.	1.4	2
60	Morphology-Tuned Phase Transitions of Horseshoe Shaped BaTiO₃ Nanomaterials under High Pressure. Journal of Physical Chemistry C, 2018, 122, 5188-5194.	1.5	14
61	Revealing unusual rigid diamond net analogues in superhard titanium carbides. RSC Advances, 2018, 8, 14479-14487.	1.7	9
62	High pressure structural stability of the Na-Te system. AIP Advances, 2018, 8, 035123.	0.6	0
63	New Ordered Structure of Amorphous Carbon Clusters Induced by Fullereneâ€“Cubane Reactions. Advanced Materials, 2018, 30, e1706916.	11.1	18
64	Emergent property of high hardness for C-rich ruthenium carbides: partial covalent Ruâ€“Ru bonds. Physical Chemistry Chemical Physics, 2018, 20, 6108-6115.	1.3	5
65	Unravelling decomposition products of phosphine under high pressure. Journal of Raman Spectroscopy, 2018, 49, 721-727.	1.2	10
66	High-Pressure Formation of Cobalt Polyhydrides: A First-Principle Study. Inorganic Chemistry, 2018, 57, 181-186.	1.9	22
67	First-principles study of ternary Li-Al-Te compounds under high pressure. Solid State Communications, 2018, 270, 58-64.	0.9	6
68	Polymeric Nitrogen A7 Layers Stabilized in the Confinement of a Multilayer BN Matrix at Ambient Conditions. Scientific Reports, 2018, 8, 13758.	1.6	8
69	A high pressure Raman study on confined individual iodine molecules as molecular probes of structural collapse in the AlPO₄-5 framework. Physical Chemistry Chemical Physics, 2018, 20, 26117-26125.	1.3	7
70	Elastic properties of single crystal hydrogen sulfide: A Brillouin scattering study under high pressure-temperature. Journal of Applied Physics, 2018, 124, 125901.	1.1	2
71	Stable structures and superconductivity of an Atâ€“H system at high pressure. Physical Chemistry Chemical Physics, 2018, 20, 24783-24789.	1.3	1
72	High energetic polymeric nitrogen sheet confined in a graphene matrix. RSC Advances, 2018, 8, 30912-30918.	1.7	14

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73	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
74	Direct Conversion of Graphene Aerogel into Low-Density Diamond Aerogel Composed of Ultrasmall Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 13193-13198.	1.5	9
75	High-pressure structures of helium and carbon dioxide from first-principles calculations. Solid State Communications, 2018, 283, 9-13.	0.9	3
76	Two-dimensional carbon dioxide with high stability, a negative Poisson's ratio and a huge band gap. Physical Chemistry Chemical Physics, 2018, 20, 20615-20621.	1.3	13
77	Effect of electron scattered by optical phonons on superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> () Tj ETQq1 1 0.784314 rgBT /Ov	1.1	17
78	Graphdiyne under pressure: A Raman study. Applied Physics Letters, 2018, 113, .	1.5	10
79	Insights into Antibonding Induced Energy Density Enhancement and Exotic Electronic Properties for Germanium Nitrides at Modest Pressures. Inorganic Chemistry, 2018, 57, 10416-10423.	1.9	4
80	Structure and superconductivity of hydrides at high pressures. National Science Review, 2017, 4, 121-135.	4.6	109
81	Pressure induced metastable polymerization in doped C60 materials. Carbon, 2017, 115, 740-745.	5.4	15
82	A Novel High-Density Phase and Amorphization of Nitrogen-Rich 1H-Tetrazole (CH2N4) under High Pressure. Scientific Reports, 2017, 7, 39249.	1.6	12
83	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
84	Confirmation of the Structural Phase Transitions in XeF₂ under High Pressure. Journal of Physical Chemistry C, 2017, 121, 6264-6271.	1.5	17
85	Alkaline-earth metal (Mg) polynitrides at high pressure as possible high-energy materials. Physical Chemistry Chemical Physics, 2017, 19, 9246-9252.	1.3	77
86	A Novel Polymerization of Nitrogen in Beryllium Tetranitride at High Pressure. Journal of Physical Chemistry C, 2017, 121, 9766-9772.	1.5	67
87	Bonding Properties of Aluminum Nitride at High Pressure. Inorganic Chemistry, 2017, 56, 7494-7500.	1.9	34
88	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.	1.2	4
89	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
90	Pressure-induced phase transitions and insulator-metal transitions in VO2 nanoparticles. Journal of Alloys and Compounds, 2017, 709, 260-266.	2.8	12

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91	High pressure infrared spectroscopy study on C60â^—CS2 solvates. Chemical Physics Letters, 2017, 669, 49-53.	1.2	5
92	Remarkable cycle-activated capacity increasing in onion-like carbon nanospheres as lithium battery anode material. Nanotechnology, 2017, 28, 035704.	1.3	7
93	Stability of Sulfur Nitrides: A First-Principles Study. Journal of Physical Chemistry C, 2017, 121, 1515-1520.	1.5	30
94	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	67
95	Structural stability and electronic property in K₂S under pressure. RSC Advances, 2017, 7, 7424-7430.	1.7	13
96	Prediction of superconducting ternary hydride MgGeH₆: from divergent high-pressure formation routes. Physical Chemistry Chemical Physics, 2017, 19, 27406-27412.	1.3	40
97	Uniaxial-stress-driven transformation in cold compressed glassy carbon. Applied Physics Letters, 2017, 111, .	1.5	25
98	Heterostructural MnO₂@NiS₂/Ni(OH)₂ materials for high-performance pseudocapacitor electrodes. RSC Advances, 2017, 7, 44289-44295.	1.7	26
99	Investigation of the polymerization mechanism of ferrocene doped C60 under high pressure and high temperature. Scientific Reports, 2017, 7, 10809.	1.6	5
100	Unexpected stable stoichiometries and superconductivity of potassium-rich sulfides. RSC Advances, 2017, 7, 44884-44889.	1.7	5
101	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
102	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
103	Optical properties and structural phase transitions of W-doped VO2(R) under pressure. RSC Advances, 2017, 7, 31597-31602.	1.7	5
104	Superhard three-dimensional carbon with metallic conductivity. Carbon, 2017, 123, 311-317.	5.4	61
105	Two-dimensional Penta-BP5 Sheets: High-stability, Strain-tunable Electronic Structure and Excellent Mechanical Properties. Scientific Reports, 2017, 7, 2404.	1.6	52
106	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:mro 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
107	Effect of C₇₀ rotation on the photoluminescence spectra of compressed C₇₀*mesitylene. Journal of Raman Spectroscopy, 2017, 48, 437-442.	1.2	7
108	High-pressure Raman study of solid hydrogen up to 300 GPa. Chinese Physics B, 2016, 25, 037401.	0.7	13

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109	Improvement of radiation stability of semi-insulating gallium arsenide crystals by deposition of diamond-like carbon films. Optical Materials, 2016, 62, 372-377.	1.7	2
110	Pressure-induced transformations in carbon nano-onions. Journal of Applied Physics, 2016, 119, .	1.1	10
111	High-pressure behavior of bromine confined in the one-dimensional channels of zeolite AlPO4-5 single crystals. Journal of Chemical Physics, 2016, 145, 124319.	1.2	7
112	Pressure-induced structural transformation of CaC2. Journal of Chemical Physics, 2016, 144, 194506.	1.2	5
113	Photoluminescence changes of C70 nano/submicro-crystals induced by high pressure and high temperature. Scientific Reports, 2016, 6, 38470.	1.6	10
114	Investigation of the lattice behavior of cubic Y₂O₃/Eu³⁺ nanotubes under high pressure. Physica Status Solidi (B): Basic Research, 2016, 253, 2204-2208.	0.7	3
115	High pressure and high temperature induced polymerization of doped C 60 materials. Carbon, 2016, 109, 269-275.	5.4	16
116	Ab initio molecular dynamic study of solid-state transitions of ammonium nitrate. Scientific Reports, 2016, 6, 18918.	1.6	5
117	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 ETQq1 1 0.78 Physical Review B, 2016, 93, .	1.1	20
118	Strong covalent boron bonding induced extreme hardness of VB3. Journal of Alloys and Compounds, 2016, 688, 1101-1107.	2.8	14
119	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
120	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
121	Pressure-Induced Phase Transitions and Amorphization of 4-Carboxybenzenesulfonyl Azide. Journal of Physical Chemistry C, 2016, 120, 25709-25716.	1.5	6
122	Discovery of Superconductivity in Hard Hexagonal Îµ-NbN. Scientific Reports, 2016, 6, 22330.	1.6	36
123	The pressure-induced metallization of monoclinic vanadium dioxide. RSC Advances, 2016, 6, 104949-104954.	1.7	13
124	Structural Stability and Deformation of Solvated Sm@C2(42)-C90 under High Pressure. Scientific Reports, 2016, 6, 31213.	1.6	5
125	High pressure studies of trimethyltin azide by Raman scattering, IR absorption, and synchrotron X-ray diffraction. RSC Advances, 2016, 6, 98921-98926.	1.7	12
126	High-Pressure Studies of 4-Acetamidobenzenesulfonyl Azide: Combined Raman Scattering, IR Absorption, and Synchrotron X-ray Diffraction Measurements. Journal of Physical Chemistry B, 2016, 120, 12015-12022.	1.2	12

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127	Ground state structures of tantalum tetraboride and triboride: an ab initio study. Physical Chemistry Chemical Physics, 2016, 18, 18074-18080.	1.3	19
128	High pressure studies of Ni₃[(C₂H₅N₅)₆(H₂O)₆](NO₃) by Raman scattering, IR absorption, and synchrotron X-ray diffraction. RSC Advances, 2016, 6, 65031-65037.	1.7	5
129	Pressure-induced phase transition of SnH₄: a new layered structure. RSC Advances, 2016, 6, 10456-10461.	1.7	10
130	Unexpected photoluminescence properties from one-dimensional molecular chains. Nanoscale, 2016, 8, 1456-1461.	2.8	4
131	Stability and properties of the Ruâ€“H system at high pressure. Physical Chemistry Chemical Physics, 2016, 18, 1516-1520.	1.3	26
132	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
133	One-step synthesis of C60 nano-assemblies at different temperatures. Materials and Design, 2016, 93, 343-346.	3.3	3
134	Gaucheâ€“trans Conformational Equilibrium of Succinonitrile under High Pressure. Journal of Physical Chemistry C, 2016, 120, 5340-5346.	1.5	12
135	The elastic properties and piezochromism of polyimide films under high pressure. Polymer, 2016, 90, 1-8.	1.8	16
136	Nanosize effects assisted synthesis of the high pressure metastable phase in ZrO2. Nanoscale, 2016, 8, 2412-2417.	2.8	14
137	Phase Transition for Zinc Sulfide Nanosheets under High Pressure. Journal of Physical Chemistry C, 2016, 120, 781-785.	1.5	9
138	In situ low-temperature Raman studies of iodine molecules confined in the one-dimensional channels of AlPO 4 -5 crystals. Microporous and Mesoporous Materials, 2016, 221, 76-80.	2.2	7
139	Prediction of stoichiometric PoHn compounds: crystal structures and properties. RSC Advances, 2015, 5, 103445-103450.	1.7	15
140	Pressure-induced decomposition of solid hydrogen sulfide. Physical Review B, 2015, 91, .	1.1	255
141	Ab initio investigation of CaO-ZnO alloys under high pressure. Scientific Reports, 2015, 5, 11003.	1.6	13
142	Structural Deformation of Sm@C88 under High Pressure. Scientific Reports, 2015, 5, 13398.	1.6	7
143	Insertion of N2 into the Channels of AFI Zeolite under High Pressure. Scientific Reports, 2015, 5, 13234.	1.6	12
144	Ab initio structure determination of n-diamond. Scientific Reports, 2015, 5, 13447.	1.6	13

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145	High-pressure polymorphism as a step towards high density structures of LiAlH4. Applied Physics Letters, 2015, 107, 041906.	1.5	4
146	High pressure synthesis of amorphous TiO2 nanotubes. AIP Advances, 2015, 5, 097128.	0.6	13
147	Raman spectroscopy of bromine chains inside the one-dimensional channels of AlPO₄-5 single crystals. Journal of Raman Spectroscopy, 2015, 46, 413-417.	1.2	9
148	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
149	Transformations of iodine species inside elliptical channels of AlPO₄ -11 crystals at low temperature: a Raman study. Journal of Raman Spectroscopy, 2015, 46, 400-405.	1.2	6
150	High-temperature Superconductivity in compressed Solid Silane. Scientific Reports, 2015, 5, 8845.	1.6	25
151	Predicted structures and superconductivity of hypothetical Mg-CH4compounds under high pressures. Materials Research Express, 2015, 2, 046001.	0.8	24
152	Enhancement of Tc in the atomic phase of iodine-doped hydrogen at high pressures. Physical Chemistry Chemical Physics, 2015, 17, 32335-32340.	1.3	15
153	Predicted Formation of H₃⁺ in Solid Halogen Polyhydrides at High Pressures. Journal of Physical Chemistry A, 2015, 119, 11059-11065.	1.1	19
154	A novel stable hydrogen-rich SnH8 under high pressure. RSC Advances, 2015, 5, 107637-107641.	1.7	9
155	Ab initio study on the stability of N-doped ZnO under high pressure. RSC Advances, 2015, 5, 16774-16779.	1.7	3
156	Pressure-Induced Reversible Phase Transformation in Nanostructured Bi₂Te₃ with Reduced Transition Pressure. Journal of Physical Chemistry C, 2015, 119, 3843-3848.	1.5	30
157	High pressure structures and superconductivity of AlH₃(H₂) predicted by first principles. RSC Advances, 2015, 5, 5096-5101.	1.7	33
158	Pressure-Induced Amorphization and Recrystallization of SnI₂. Journal of Physical Chemistry C, 2015, 119, 19312-19317.	1.5	5
159	Phase diagram, mechanical properties, and electronic structure of Nbâ€“N compounds under pressure. Physical Chemistry Chemical Physics, 2015, 17, 22837-22845.	1.3	27
160	Structural, mechanical and electronic properties of Rh2B and RhB2: first-principles calculations. Scientific Reports, 2015, 5, 10500.	1.6	14
161	Hexagonal-structured Îµ-NbN: ultra-incompressibility, high shear rigidity and a possible hard superconducting material. Scientific Reports, 2015, 5, 10811.	1.6	46
162	Structures and Properties of Osmium Hydrides under Pressure from First Principle Calculation. Journal of Physical Chemistry C, 2015, 119, 15905-15911.	1.5	29

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163	First-principles study on the structural and electronic properties of metallic HfH2 under pressure. Scientific Reports, 2015, 5, 11381.	1.6	26
164	Ab initio study of germanium-hydride compounds under high pressure. RSC Advances, 2015, 5, 19432-19438.	1.7	13
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