CITATION REPORT List of articles citing

Calibration of the ruby pressure gauge to 800 kbar under quasi-hydrostatic conditions

DOI: 10.1029/jb091ib05p04673 Journal of Geophysical Research, 1986, 91, 4673.

Source: https://exaly.com/paper-pdf/18083884/citation-report.pdf

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2337	Raman spectroscopy of SiO2 glass at high pressure. 1986 , 57, 747-750		437
2336	Static compression of iron to 78 GPa with rare gas solids as pressure-transmitting media. <i>Journal of Geophysical Research</i> , 1986 , 91, 4677		233
2335	Laser techniques in high-pressure geophysics. 1987 , 237, 605-12		79
2334	Calculation of elasticity and high pressure instabilities in corundum and stishovite with the Potential Induced Breathing Model. 1987 , 14, 37-40		109
2333	Mineral and melt physics. 1987, 25, 1265		42
2332	Pressure Dependence of Raman Spectra of SiO2 Polymorphs: EQuartz, Coesite, and Stishovite. 1987 , 347-359		38
2331	Frequency-dependent equation of state of fused silica to 10 GPa. 1987 , 35, 236-244		106
2330	Pressure-induced structural phase transitions in solid xenon. 1987 , 59, 2670-2673		123
2329	Pressure-induced amorphization of crystalline silica. 1988 , 334, 52-54		551
2328	. 1988,		6
2327	Thermal Expansion of Periclase and Olivine, and their Anharmonic Properties. 1988, 361-375		1
2326	Hugoniot Equation of State of Twelve Rocks. 1988, 199-236		
2325	Raman spectroscopy and theoretical modeling of BeO at high pressure. 1988 , 37, 4727-4734		66
2324	Yield strength of MgO to 40 GPa. <i>Journal of Geophysical Research</i> , 1988 , 93, 3261		108
2323	Static compression and equation of state of CaO to 1.35 Mbar. <i>Journal of Geophysical Research</i> , 1988 , 93, 15279-15288		105
2322	High-pressure phase diagram and equation of state of solid helium from single-crystal x-ray diffraction to 23.3 GPa. 1988 , 60, 2649-2652		109
2321	Phase transition in solid molecular hydrogen at ultrahigh pressures. 1988 , 61, 857-860		203

Synchrotron X-ray Diffraction Measurements of Single-Crystal Hydrogen to 26.5 Gigapascals. 1988 , 239, 1131-4	138
The Bulk Modulus Volume Relationship for Oxide Compounds and Related Geophysical Problems. 1988, 153-165	1
2318 Effects of Temperature and Pressure on Interatomic Distances in Oxygen-Based Minerals. 1988 , 407-4	13 2
Derivation of Wachtman's Equation for the Temperature Dependence of the Elastic Moduli of Oxide Compounds. 1988 , 166-170	1
2316 The Bulk Modulus-Volume Relationship for Oxides. 1988 , 283-289	
2315 The Single-Crystal Elastic Moduli of Stishovite. 1988 , 459-465	
2314 Some Elastic Constant Data on Minerals Relevant to Geophysics. 1988 , 237-270	
2313 Composition of the Upper Mantle: Geophysical Tests of Two Petrological Models. 1988 , 513-516	
Homogeneity and Constitution of the Earth's Lower Mantle and Outer Core. 1988 , 341-348	
2311 Elasticity and Constitution of the Earth's Interior. 1988 , 31-90	
Theory of Binding of Ionic Crystals: Application to Alkali-Halide and Alkaline-Earth-Dihalide Crystals. 1988 , 314-320	
The Determination of the Elastic Constants of Natural Almandine-Pyrope Garnet by Rectangular Parallelepiped Resonance Method. 1988 , 376-383	1
2308 The Velocity of Compressional Waves in Rocks to 10 Kilobars, Part 2. 1988 , 91-116	1
2307 The Elastic Properties of Composite Materials. 1988 , 384-406	
The Effect of Pressure Upon the Elastic Parameters of Isotropic Solids, According to Murnaghan's Theory of Finite Strain. 1988 , 21-30	
2305 Temperature Coefficients of Elastic Constants of Single Crystal Mgo Between 80 and 1,300 K. 1988 , 50)3-512
2304 Density Distribution in the Earth. 1988 , 1-20	
2303 X-Ray Diffraction and Optical Observations on Crystalline Solids Up to 300 Kbar. 1988 , 193-198	

2302 Thermal Expansion of Silicate Perovskite and Atratification of the Earth's Mantle. 1988, 521-523 Reflection Properties of Phase Transition and Compositional Change Models of the 670-Km 2301 Discontinuity. 1988, 488-502 2300 AB Initio Structural and Thermoelastic Properties of Orthorhombic MgSiO3 Perovskite. 1988, 517-520 2299 Static Compression of Iron T78 Gpa with Rare Gas Solids as Pressure-Transmitting Media. 1988, 524-531 2298 Equations of State of Iron Sulfide and Constraints on the Sulfur Content of the Earth. 1988, 427-440 Post-Oxide Phases of Forsterite and Enstatite. 1988, 358-360 2296 Velocity-Density Systematics and its Implications for the Iron Content of the Mantle. 1988, 335-340 2295 Composition of the Earth's Mantle. 1988, 117-133 2294 Hydrostatic compression of perovskite-type MgSiO3. 1988, 466-474 2293 Some Geophysical Constraints on the Chemical Composition of the Earth's Lower Mantle. 1988, 475-487 Pressure Dependence of the Thermal Grileisen Parameter, with Application to the Earth's Lower 2292 Mantle and Outer Core. 1988, 349-357 2291 Elasticity of Coesite. 1988, 414-426 2290 Velocity-Density Systematics: Derivation from Debye Theory and the Effect of Ionic Size. 1988, 305-313 2289 Elasticity of Pyroxene-Garnet and Pyroxene-Ilmenite Phase Transformations in Germanates. 1988, 321-334 2288 A Seismic Equation of State. 1988, 171-192 Elastic Constants of Single-Crystal Forsterite as a Function of Temperature and Pressure. 1988, 271-282

2286 Equation of State of Polycrystalline and Single-Crystal MgO to 8 Kilobars and 800°K. 1988, 290-304

The Use of Ultrasonic Measurements Under Modest Compression to Estimate Compression at High

l .

Pressure. 1988, 134-152

2285

2284 The Temperature of Shock Compressed Iron. **1988**, 532-541

2283 The Equation of State for Iron and the Earth's Core. 1988 , 446-458	
2282 Grileisen Parameter of Quartz, Quartzite, and Fluorite at High Pressure. 1988 , 441-445	
$_{22}8_{1}$ Ruby at high pressure. I. Optical line shifts to 156 GPa. 1989 , 40, 5724-5732	107
Optical evidence for the metallization of xenon at 132(5) GPa. 1989, 62, 665-668	146
2279 Evidence for a structural phase transition in solid hydrogen at megabar pressures. 1989 , 63, 2080-2083	112
2278 Isotope effects in dense solid hydrogen: Phase transition in deuterium at 190+/-20 GPa. 1989 , 63, 1393-139	95 43
Evidence for the insulator-metal transition in xenon from optical, x-ray, and band-structure studies to 170 GPa. 1989 , 62, 669-672	114
2276 Direct-band-gap absorption in germanium under pressure. 1989 , 39, 12921-12924	35
2275 First-principles equation of state of gold. 1989 , 40, 7501-7507	39
Optical Studies of Hydrogen Above 200 Gigapascals: Evidence for Metallization by Band Overlap. 1989, 244, 1462-1465	167
2273 Raman study of high pressure induced phase transition in sodium nitrite. 1989 , 50, 739-742	3
2272 X-ray diffraction and equation of state of solid neon to 110 GPa. 1989 , 39, 11820-11827	149
Bulk moduli of magnesiowEtites from static compression measurements. <i>Journal of Geophysical</i> 2271 <i>Research</i> , 1989 , 94, 3037-3045	43
High-pressure measurements at moderate temperatures in a diamond anvil cell with a new optical sensor: SrB4O7:Sm2+. 1989 , 66, 366-372	105
2269 High pressure raman study of PbMoO4. 1990 , 3, 254-256	4
Disappearance of the ruby R-line fluorescence under quasihydrostatic pressure and valid pressure range of ruby gauge. 1990 , 143, 79-82	12
2267 Superconductivity at 108 K in YBa2Cu4O8 at pressures up to 12 GPa. 1990 , 168, 482-488	125

2266	High-Pressure Dielectric Catastrophe and the Possibility That the Hydrogen-A Phase Is Metallic. 1990 , 11, 775-781	38
2265	Low-frequency vibrational dynamics and structure of hydrogen at megabar pressures. 1990 , 65, 2670-2673	72
2264	High-pressure triple point in helium: The melting line of helium up to 240 kbar. 1990 , 42, 6106-6109	39
2263	Deuterated palladium at temperatures from 4.3 to 400 K and pressures to 105 kbar: Search for cold fusion. 1990 , 42, 9143-9146	7
2262	Pressure dependence of the 4T2 and 4T1 absorption bands of ruby to 35 GPa. 1990 , 41, 5372-5381	107
2261	Reply to "Comment on 'Ruby at high pressure. I. Optical line shifts to 156 GPa' ". 1990 , 42, 9191-9192	5
2260	Infrared reflectance measurements of the insulator-metal transition in solid hydrogen. 1990 , 65, 484-487	80
2259	Equation of state of solid hydrogen and deuterium from single-crystal x-ray diffraction to 26.5 GPa. 1990 , 42, 6458-6470	156
2258	Critical behavior in the hydrogen insulator-metal transition. 1990 , 249, 391-3	51
2257	Effect of pressure on the low-temperature exciton absorption in GaAs. 1990 , 41, 10111-10119	103
2256	SrB4O7:Sm2+ pressure optical sensor: Investigations in the megabar range. 1990 , 68, 2351-2354	44
2255	A system for doing low temperature-high pressure single crystal X-ray diffraction with a synchrotron source. 1991 , 6, 379-388	13
2254	Structural phase transitions and optical absorption of LiInSe2 under pressure. 1991 , 43, 9635-9642	34
2253	Experimental determination of element partitioning and calculation of phase relations in the MgO-FeO-SiO2 system at high pressure and high temperature. <i>Journal of Geophysical Research</i> , 1991 , 96, 2157	119
2252	Effect of pressure, temperature, and composition on lattice parameters and density of (Fe,Mg)SiO3-perovskites to 30 GPa. <i>Journal of Geophysical Research</i> , 1991 , 96, 8069	260
2251	Pressure-induced amorphization of crystalline Bi4Ge3O12. 1991 , 156, 450-454	13
2250	Progress in pressure measurements with luminescence sensors. 1991 , 7, 73-75	59
2249	High-pressure chemistry of hydrogen in metals: in situ study of iron hydride. 1991 , 253, 421-4	158

High-pressure dielectric measurements of solid hydrogen to 170 GPa. 1991 , 350, 488-491	57
2247 Ruby at high pressure. III. A pumping scheme for the R lines up to 230 GPa. 1991 , 44, 7202-7208	34
2246 Absorption and reflectance in hydrogen up to 230 GPa: Implications for metallization. 1991 , 66, 193-196	69
2245 High-pressure optical studies on sulfur to 121 GPa: Optical evidence for metallization. 1991 , 67, 2998-3001	86
Potential use of the ruby R2 line shift for static high-pressure calibration. 1991 , 58, 583-585	50
Proximity-Coupled CuO 2 Planes in High- T c Superconductors: Evidence from Pressure Experiments up to 34 GPa on Y 2 Ba 4 Cu 7 O 15.32. 1992 , 20, 41-46	12
2242 Gap reduction and the collapse of solid C60 to a new phase of carbon under pressure. 1992 , 69, 466-469	113
2241 Dielectric properties of solid molecular hydrogen at high pressure. 1992 , 45, 9709-9715	14
High-pressure measurements of the isotopic shift in the melting curve of He. 1992 , 69, 1216-1219	12
2239 Pressure dependence of Tc and Hc2 of YBa2Cu4O8. 1992 , 45, 3077-3082	82
Raman measurements of the vibrational properties of H2 as a guest molecule in dense helium, neon, argon, and deuterium systems up to 40 GPa. 1992 , 45, 12844-12853	57
Pressure dependence of the exciton absorption and the electronic subband structure of a Ga0.47In0.53As/Al0.48In0.52As multiple-quantum-well system. 1992 , 45, 6809-6818	13
2236 Single crystal x-ray diffraction with a synchrotron source in a mdac at low temperature. 1992 , 8, 691-696	8
2235 Pressure dependence of high-Tc superconductors. 1992 , 10, 479-485	3
2234 Single-crystal X-ray diffraction at high pressures with diamond-anvil cells. 1992 , 39, 13-32	18
Calibration of the ruby R1 and R2 fluorescence shifts as a function of temperature from 0 to 600 K. 1992 , 72, 5539-5544	161
2232 Stability of ruby in solid hydrogen at megabar pressures. 1992 , 45, 8108-8111	14
Alexandrite as a high-temperature pressure calibrant, and implications for the ruby-fluorescence scale. 1992 , 71, 1579-1582	39

2230	Simultaneous high-P, high-T X ray diffraction study of ¶Mg,Fe)2SiO4 to 26 GPa and 900 K. <i>Journal of Geophysical Research</i> , 1992 , 97, 4489	90
2229	Low-temperature exciton absorption in InSe under pressure. 1992 , 45, 4221-4226	49
2228	High pressure refractive index measurements of 4:1 methanol:ethanol. 1992 , 72, 2453-2461	56
2227	Stability of high-density clinoenstatite at upper-mantle pressures. 1992 , 358, 322-324	190
2226	Raman spectroscopy of DMSO and DMSO-H2O mixtures (32 mol% of DMSO) up to 20 GPa. 1992 , 182, 195-200	13
2225	Pressure dependence of Tc and Hc2 of CaLaBaCu3O7 up to 50 GPa. 1992 , 198, 231-236	7
2224	The phase diagram of the binary mixture nitrogen-helium at high pressure. 1992 , 182, 365-387	10
2223	Pressure induced soft mode phase transition in Bi2Ti4O11 by Raman scattering. 1992 , 163, 135-138	7
2222	Anomalous low-frequency excitations in diamond-cell studies of hydrogen at megabar pressures. 1992 , 163, 429-434	12
2221	Superconductivity at 133 K in Tl2Ba2Ca2Cu3O10+x under high pressure. 1993 , 218, 24-28	24
2221	Superconductivity at 133 K in Tl2Ba2Ca2Cu3O10+x under high pressure. 1993, 218, 24-28 Microstructural Observations of EQuartz Amorphization. 1993, 259, 666-669	24
2220	Microstructural Observations of EQuartz Amorphization. 1993, 259, 666-669 Pressure-induced Amorphization of R-Al5Li3Cu: A Structural Relation Among Amorphous Metals,	213
2220	Microstructural Observations of ⊕Quartz Amorphization. 1993, 259, 666-669 Pressure-induced Amorphization of R-Al5Li3Cu: A Structural Relation Among Amorphous Metals, Quasi-Crystals, and Curved Space. 1993, 260, 202-4	213
2220 2219 2218	Microstructural Observations of EQuartz Amorphization. 1993, 259, 666-669 Pressure-induced Amorphization of R-Al5Li3Cu: A Structural Relation Among Amorphous Metals, Quasi-Crystals, and Curved Space. 1993, 260, 202-4 The high-pressure, high-temperature equation of state of calcium fluoride, CaF2. 1993, 5, L141-L144 High pressure measurements of the He-Ne binary phase diagram at 296 K: Evidence for the stability	213 21 48
2220 2219 2218 2217	Microstructural Observations of EQuartz Amorphization. 1993, 259, 666-669 Pressure-induced Amorphization of R-Al5Li3Cu: A Structural Relation Among Amorphous Metals, Quasi-Crystals, and Curved Space. 1993, 260, 202-4 The high-pressure, high-temperature equation of state of calcium fluoride, CaF2. 1993, 5, L141-L144 High pressure measurements of the He-Ne binary phase diagram at 296 K: Evidence for the stability of a stoichiometric Ne(He)2 solid. 1993, 70, 178-181 Deviatoric stress in a quasi-hydrostatic diamond anvil cell: Effect on the volume-based pressure	213 21 48 63
2220 2219 2218 2217 2216	Microstructural Observations of EQuartz Amorphization. 1993, 259, 666-669 Pressure-induced Amorphization of R-Al5Li3Cu: A Structural Relation Among Amorphous Metals, Quasi-Crystals, and Curved Space. 1993, 260, 202-4 The high-pressure, high-temperature equation of state of calcium fluoride, CaF2. 1993, 5, L141-L144 High pressure measurements of the He-Ne binary phase diagram at 296 K: Evidence for the stability of a stoichiometric Ne(He)2 solid. 1993, 70, 178-181 Deviatoric stress in a quasi-hydrostatic diamond anvil cell: Effect on the volume-based pressure calibration. 1993, 20, 1147-1150 Static compression of Mg(OH)2 to 78 GPa at high temperature and constraints on the equation of	213 21 48 63 81

2212	Elasticity of hydrogen to 24 GPa from single-crystal Brillouin scattering and synchrotron x-ray diffraction. 1993 , 48, 9246-9255	65
2211	X-ray-diffraction study of sulfur to 32 GPa: Amorphization at 25 GPa. 1993 , 48, 569-572	56
22 10	Pressure-induced amorphization of wollastonite (CaSiO3) at room temperature. 1993 , 98, 9830-9834	26
2209	Experimental investigation of solidification in 4He, 3He, and Ne at very high pressure. 1993 , 70, 2106-2109	4
2208	Anomalous behavior of the vibrational spectrum of the high-pressure delta phase of nitrogen: A second-order transition. 1993 , 71, 2252-2255	45
2207	Pressure dependence of the superconducting transition temperature in single crystals of Tl2Ba2Ca2Cu3O10-x. 1993 , 47, 5524-5527	33
2206	Remarkable high pressure phase line of orientational order in solid hydrogen deuteride. 1993 , 71, 3814-3817	50
2205	Pressure dependence of the vibron in H2, HD, and D2: Implications for inter- and intramolecular forces. 1993 , 48, 12613-12619	28
2204	Equation of state and phase diagram of solid 4He from single-crystal x-ray diffraction over a large P-T domain. 1993 , 71, 2272-2275	113
2203	High Pressure Experiments for Astrophysics. 1994 , 147, 239-271	
2202	Edge effects in molybdenum-encapsulated molten silicate shock wave targets. 1994 , 75, 1426-1434	11
2201	Collapse of the Hartree term of the Coulomb interaction in a very dilute 2D electron gas. 1994 , 72, 4029-4032	55
2200	State mixing in InAs/GaAs quantum dots at the pressure-induced Gamma -X crossing. 1994 , 50, 18420-18425	40
2199	Optical reflectivity and Raman spectra of Sr2FeO4 under pressure. 1994 , 50, 11396-11402	15
2198	Compressibility of the HgBa2Can-1CunO2n+2+ delta (n=1,2,3) high-temperature superconductors. 1994 , 49, 15299-15304	29
2197	Compression of Ar(H2)2 up to 175 GPa: A new path for the dissociation of molecular hydrogen?. 1994 , 72, 1360-1363	97
2196	Pressure-induced transformations of the low-cristobalite phase of GaPO4. 1994 , 73, 1644-1647	24
2195	Optical, x-ray, and band-structure studies of iodine at pressures of several megabars. 1994 , 49, 3725-3733	34

2194	Intervalley scattering potentials of Ge from direct exciton absorption under pressure. 1994 , 49, 8017-8023	31
2193	Pressure dependence of Sm:YAG fluorescence to 50 GPa: A new calibration as a high pressure scale. 1994 , 75, 1463-1466	26
2192	Photoluminescence from strained InAs monolayers in GaAs under pressure. 1994 , 50, 1575-1581	42
2191	High pressure Raman spectra of ₱Mg2SiO4, ₱Mg2SiO4, MgSiO3-ilmenite and MgSiO3-perovskite. 1994 , 55, 185-193	39
2190	Pressure dependence of the superconducting critical temperature Tc of HgBa2Ca2Cu3O8+x up to 26 GPa. 1994 , 235-240, 893-894	12
2189	High-pressure X-ray diffraction study of diaspore. 1994 , 90, 497-500	17
2188	Pressure dependence of photoluminescence in InxGa1 IkAs/AlyGa1 IyAs strained quantum wells with different widths. 1994 , 37, 885-888	5
2187	Characterization of the new luminescence pressure sensor SrFCl:Sm2+. 1994 , 12, 91-99	53
2186	Equations of state and thermodynamic properties of enstatite pyroxenes. <i>Journal of Geophysical Research</i> , 1994 , 99, 19777-19783	82
2185	Photoluminescence Studies of [(CdSe)1(ZnSe)2]9-ZnSeTe Multiple Quantum Wells Under High Pressure. 1994 , 358, 1017	
2184	Sound velocities in dense hydrogen and the interior of jupiter. 1994 , 263, 1590-3	63
2183	Sound velocity of Al2O3 to 616 kbar. 1994 , 87, 77-83	8
2182	Crystal structural variation and phase transition in caesium trichlorocuprate at high pressure. 1994 , 6, 3125-3136	7
2181	Acoustic velocities and refractive index of SiO2 glass to 57.5 GPa by Brillouin scattering. 1994 , 50, 13105-1311	12 01
2180	Pressure Induced Metastable Amorphization of BAs: Evidence for a Kinetically Frustrated Phase Transformation. 1994 , 73, 2476-2479	56
2179	Photoluminescence Studies of GaN and AlGaN Layers Under Hydrostatic Pressure. 1995 , 378, 509	4
2178	Fine Structure of the 3.42 eV Emission Band in GaN. 1995 , 395, 571	21
2177	High pressure study of EX mixing in InAs/GaAs quantum dots. 1995 , 56, 385-388	14

2176	Raman investigation of the supercritical mixture He-H2. 1995 , 16, 965-971	4
2175	Transformation of stishovite to a denser phase at lower-mantle pressures. 1995 , 374, 243-245	275
2174	Stability of O2/H2 mixtures at high pressure. 1995 , 378, 44-46	28
2173	Elasticity of forsterite to 16 GPa and the composition of the upper mantle. 1995 , 378, 170-173	140
2172	High pressure X-ray and Raman study of ZnSe. 1995 , 56, 521-524	42
2171	Band gap and index of refraction of CsH to 251 GPa. 1995 , 95, 385-388	25
2170	Micro-Raman study of the role of pressure in mercury-based superconductors. 1995 , 51, 644-647	15
2169	Electronic subband structure of InP/InxGa1-xP quantum islands from high-pressure photoluminescence and photoreflectance. 1995 , 52, 12212-12217	20
2168	The equation of state of polyamorphic germania glass: A two-domain description of the viscoelastic response. 1995 , 102, 6851-6857	117
2167	Theoretical calculations of pressure-induced shifts of the entire energy spectrum of ruby. 1995 , 7, 4883-4893	19
2166	A new unquenchable high-pressure polymorph of Ca3Al2Si3O12. 1995 , 92, 25-31	22
2165	New high-pressure structural transition of oxygen at 96 GPa associated with metallization in a molecular solid. 1995 , 74, 4690-4693	160
2164	Compression behavior of NiO in a diamond cell. 1995 , 13, 307-319	16
2163	LO-Phonon-plasmon modes in n-GaAs and n-InP under pressure. 1995 , 56, 567-570	6
2162	Diamond anvil cell study of the transformation mechanism from the olivine to spinel phase in Co2SiO4, Ni2SiO4, and Mg2GeO4. <i>Journal of Geophysical Research</i> , 1995 , 100, 17715-17723	15
2161	Measurement of melting temperatures of some minerals under lower mantle pressures. <i>Journal of Geophysical Research</i> , 1995 , 100, 17699-17713	143
2160	High pressure study on the Raman spectra of fluid nitrogen and nitrogen in helium. 1996 , 104, 9388-9400	28
2159	Brillouin scattering and ultrasonic studies at high temperature and high pressure. 1996 , 128, 17-24	3

2158	Effects of Pressure on the Azafullerene (C59N)2 Molecular Solid to 22 GPa. 1996, 118, 8715-8716	37
2157	High-pressure phase transition in Al(OH)3: Raman and X-ray observations. 1996 , 23, 3083-3086	22
2156	Effects of static non-hydrostatic stress on the R lines of ruby single crystals. 1996 , 23, 3539-3542	60
2155	Thermal expansivity of lower mantle phases MgO and MgSiO3 perovskite at high pressure derived from vibrational spectroscopy. 1996 , 98, 3-15	59
2154	Ultrahigh pressures in gem anvil cells. 1996 , 15, 127-134	18
2153	Effect of pressure on the optical-absorption edges of CsGeBr3 and CsGeCl3. 1996 , 53, 12545-12548	44
2152	Pressure-induced disordering of sodium potassium sulfates and chromates. 1996 , 54, 7026-7033	13
2151	Compression of Ice to 210 Gigapascals: Infrared Evidence for a Symmetric Hydrogen-Bonded Phase. 1996 , 273, 218-20	271
2150	Experimental studies of Earth's deep interior: accuracy and versatility of diamond-anvil cells. 1996 , 354, 1315-1332	32
2149	Electrical Resistance Measurement of Oxygen under High Pressure. 1996 , 65, 1527-1528	10
2148	Absorption, luminescence and Raman spectroscopy of poly(p-phenylene vinylene) at high pressure. 1996 , 37, 4961-4968	68
2147	Structural and Optical Properties of HgO at High Pressure. 1996 , 198, 411-418	4
2146	X-ray diffraction and equation of state of hydrogen at megabar pressures. 1996 , 383, 702-704	360
2145	Compounds of simple molecular systems at high pressure. 1996 , 14, 353-361	3
2144	Plasmon Raman scattering and photoluminescence of heavily doped n-type InP near the Gamma -X crossover. 1996 , 53, 1287-1293	37
2143	Raman excitations and orientational ordering in deuterium at high pressure. 1996 , 54, R15590-R15593	47
2142	Extended infrared studies of high pressure hydrogen. 1996 , 76, 1663-1666	78
2141	Excitation of ruby fluorescence at multimegabar pressures. 1996 , 67, 4275-4278	22

2140	Orientational behavior of solid nitrogen at high pressures investigated by vibrational Raman spectroscopy. 1996 , 105, 2553-2560	30
2139	High-pressure study of optical transitions in strained In0.2Ga0.8As/GaAs multiple quantum wells. 1996 , 54, 13820-13826	8
2138	High-pressure Raman spectroscopy of solid oxygen. 1996 , 54, R15602-R15605	55
2137	Pressure dependence of the superconducting critical temperature of HgBa2Ca2Cu3O8+y and HgBa2Ca3Cu4O10+y up to 30 GPa. 1996 , 54, 4265-4275	47
2136	Pressure dependence of the superconducting critical temperature of Tl2Ba2Ca2Cu3O10+y and Tl2Ba2Ca3Cu4O12+y up to 21 GPa. 1996 , 54, 10175-10185	33
2135	Imma phase of germanium at ~80 GPa. 1996 , 53, R2907-R2909	46
2134	Theoretical and experimental investigation of the equations of state and phase stabilities of MgS and CaS. 1996 , 8, 8251-8265	32
2133	High-pressure Raman studies of a nitrogen - helium mixture up to 40 GPa. 1997 , 9, 11219-11226	6
2132	IR spectroscopy of alkali halides at very high pressures: Calculation of equations of state and of the response of bulk moduli to the B1 B 2 phase transition. 1997 , 56, 5835-5855	56
2131	Superconducting Tc and Electron-Phonon Coupling in Nb to 132 GPa: Magnetic Susceptibility at Megabar Pressures. 1997 , 79, 4262-4265	89
2130	Pressure-Induced Molecular Dissociation and Metallization in Hydrogen-Bonded H2S Solid. 1997 , 79, 1082-1085	63
2129	Pressure dependence of the superconducting critical temperature of the Tl0.5Pb0.5Sr2Ca1\(\text{\text{W}}\) YxCu2O7 system. 1997 , 55, 11832-11838	18
2128	Hydrostatic-pressure coefficient of the indirect gap and fine structure of the valence band of 6H-SiC. 1997 , 56, 7348-7355	12
2127	Size criterion for amorphization of molecular ionic solids. 1997 , 55, 14765-14769	23
2126	Effect of pressure on Raman phonons in zirconium metal. 1997 , 56, 10751-10753	40
2125	X-ray diffraction and absorption at extreme pressures. 1997 , 68, 1629-1647	15
2124	The Ruby Scale at Megabar Pressures. 1997 , 499, 265	1
2123	Ruby's Optical Transitions: Effects of Pressure-Induced Phase Transformation. 1997 , 499, 275	1

2122 Progress in the Search for Metallic Hydrogen: 342 GPa. 1997, 499, 341

2121	High-Pressure Raman Scattering of Biaxially Strained GaN on GaAs. 1997 , 468, 225	3
2120	The diamond 13C/12C isotope Raman pressure sensor system for high-temperature/pressure diamond-anvil cells with reactive samples. 1997 , 82, 3256-3265	77
2119	Lifetime of Phonons in Semiconductors under Pressure. 1997 , 78, 1283-1286	61
2118	Raman spectroscopy study of ZnSe and Zn0.84Fe0.16Se at high pressures. 1997 , 55, 13641-13646	59
2117	Improved calibration of the SrB4O7:Sm2+ optical pressure gauge: Advantages at very high pressures and high temperatures. 1997 , 81, 3333-3339	177
2116	The elastic constants of San Carlos olivine to 17 GPa. <i>Journal of Geophysical Research</i> , 1997 , 102, 12253-12263	268
2115	High-pressure phases of PbF2: A joint experimental and theoretical study. 1997 , 56, 543-551	22
2114	Effect of Ca2+ and Fe2+ on the equation of state of MgSiO3 orthopyroxene. <i>Journal of Geophysical Research</i> , 1997 , 102, 12333-12340	26
2113	Superconductivity at 1017 K in compressed sulphur. 1997 , 390, 382-384	163
2112	Pressure-Induced Phase Transformation of LiIn and LiCd: From NaTl-Type Phases to瞪rass-Type Alloys. 1998 , 137, 104-111	6
2111	Phase transitions of Zn0.84Fe0.16Se under high-pressure. 1998 , 107, 217-221	8
2110	Structural phase transition of HoGa2 at high pressure. 1998 , 268, 161-165	18
2109	The system CO2-N2 at high pressure and applications to fluid inclusions. 1998 , 62, 2837-2843	9
2108	Brillouin scattering and X-ray diffraction of San Carlos olivine: direct pressure determination to 32 GPa. 1998 , 159, 25-33	114
2107	High-pressure isosymmetric phase transition in orthorhombic lead fluoride. 1998 , 57, 7551-7555	34
2106	Crystal Structure of Cesium-V. 1998 , 81, 2711-2714	98
2105	Molecular Force Measurement in Liquids and Solids Using Vibrational Spectroscopy. 1998 , 102, 3354-3362	18

2104 Metallization and superconductivity in CsI at pressures up to 220 GPa. 1998 , 10, 11519-11523	10
2103 Chapter 4 Optical Properties of Semiconductors under Pressure. 1998 , 54, 247-425	53
2102 Raman study of phase D at various pressures and temperatures. 1998 , 25, 3453-3456	8
2101 Diamond Anvil Cells in High-Pressure Studies of Semiconductors. 1998 , 55, 381-436	9
2100 Metallic CsI at pressures of up to 220 gigapascals. 1998 , 281, 1333-5	103
Raman scattering from defects in GaN: The question of vibrational or electronic scattering mechanism. 1998 , 58, 13619-13626	24
2098 Melting and liquid structure of aluminum oxide using a molecular-dynamics simulation. 1998 , 57, 167	'3-1676 45
2097 Microscopic origin of the high-pressure-induced spectral shifts in ruby. 1998 , 109, 8003-8009	28
The vibrational frequency of nitrogen near the fluidBolid transition in the pure substance and in mixtures. 1998 , 108, 2695-2702	14
2095 Equation of state of wurtzitic boron nitride to 66 GPa. 1998 , 72, 1691-1693	45
2094 The stability of almandine at high pressures and temperatures. 1998 , 393-400	1
2093 Vibrational studies on CO2 up to 40 GPa by Raman spectroscopy at room temperature. 1998 , 57, 879)-888 40
Raman spectra and phase behavior of the mixed solid N2Ar at high pressure. 1998 , 57, 10407-10413	6
Effect of pressure on the crystal structure, vibrational modes, and electronic excitations of HgO. 1998, 57, 153-160	25
2090 Equation of state of 7LiH and 7LiD from x-ray diffraction to 94 GPa. 1998 , 57, 10403-10406	62
2089 Index of refraction, polarizability, and equation of state of solid molecular hydrogen. 1998 , 57, 1410	5-14109 ₃₂
2088 Isothermal Compression Curve of Al2SiO5 Kyanite. 1998 , 281-286	1
2087 Compression of PON Cristobalite to 70 GPa. 1998 , 105-117	2

2086 Laser-Heating Through a Diamond-Anvil Cell: Melting at High Pressures. 1998 , 197-213	8
2085 High pressure single crystal X-ray diffraction study on ruby up to 31 GPa. 1999 , 214, 331-336	16
2084 Raman and infrared study of phase transitions in solid HBr under pressure. 1999 , 59, 11244-11250	39
2083 Lattice phonon modes of the high-pressure phase CuCl-IV. 1999 , 60, 9410-9415	9
High-pressure Raman investigation of mutual solubility and compound formation in XeN2 and NeN2. 1999 , 60, 12635-12643	7
Raman linewidths of optical phonons in 3CBiC under pressure: First-principles calculations and experimental results. 1999 , 59, 6774-6783	57
2080 The NaCl pressure standard. 1999 , 86, 5801-5808	175
Clathrate hydrates in the system H2OAr at pressures and temperatures up to 30 kbar and 140 °C. 1999, 111, 10242-10247	38
2078 Rubidium-IV: A High Pressure Phase with Complex Crystal Structure. 1999 , 83, 4085-4088	88
Infrared absorption study of Fermi resonance and hydrogen-bond symmetrization of ice up to 141 GPa. 1999 , 60, 12644-12650	61
Collapse of the charge disproportionation and covalency-driven insulator-metal transition in Sr3Fe2O7 under pressure. 1999 , 60, 4609-4617	22
High-pressure synchrotron-diffraction study of the superconducting spin-ladder compounds (Sr,M)14Cu24O41 (M=Ca, Ba, Nd). 1999 , 59, 12048-12053	11
2074 Applications of impulsive stimulated scattering in the Earth and planetary sciences. 1999 , 50, 279-313	39
2073 Infrared study of iodanil under very high pressure. 1999 , 110, 627-632	15
2072 Equation of state of lithium to 21GPa. 1999 , 112, 123-127	65
2071 The crystal structure of rubidium-VI near 50 GPa. 1999 , 112, 319-322	41
2070 Vibrational properties of NaV2O5 under high pressure studied by Raman spectroscopy. 1999 , 112, 681-6	585 16
2069 Effect of pressure on the magnetic phase transition in &NaV2O5. 1999 , 113, 217-220	15

(2000-1999)

Effect of pressure on Fermi resonance in orthorhombic high-pressure phase-III and of isotopic species of CO2. 1999 , 265, 54-59	4
Intrinsic and carrier density effects on the pressure dependence of Tc of high-temperature superconductors. 1999 , 265, 128-135	44
Anisotropy of lattice distortion of [Co(NH3)5NO2]C2O4 at hydrostatic pressures of up to 4.0 GPa. 1999 , 40, 899-904	
Influence of order-disorder on the vibron excitations of H2 and D2 in ortho-para mixed crystals. 1999, 115, 181-216	7
2064 Micro-Raman investigations of pressure-induced transformations in MBBA. 1999 , 30, 217-224	1
2063 Raman spectroscopy study of Zn1⊠FexSe under high pressure. 1999 , 30, 951-955	2
2062 Crystal Structure of the High-Pressure Phase Silicon VI. 1999 , 82, 1197-1200	154
2061 Structural change of iodanil under high pressure. 1999 , 103, 1901-1902	10
Effect of pressure on the absolute Raman scattering cross section of SiO2 and GeO2 glasses. 1999 , 248, 159-168	76
2059 Structural properties of NaV2O5 under high pressure. 1999 , 60, R6945-R6948	30
Near infrared excited micro-Raman spectra of 4:1 methanol@thanol mixture and ruby fluorescence at high pressure. 1999 , 85, 8011-8017	26
2057 Pressure buffering in a diamond anvil cell. 2000 , 64, 241-245	11
Pressure-Induced Structural Phase Transitions in Ln2NdxCuO4 for Ln=La (0.6M2) and Ln=Pr (x=0). 2000 , 151, 231-240	6
2055 Reversible Antifluorite to Anticotunnite Phase Transition in Li2S at High Pressures. 2000 , 154, 603-611	74
2054 Effect of Pressure on Direct Optical Transitions of EnSe. 2000 , 221, 777-787	23
2053 Compressibility of CO intercalated C60 crystals. 2000 , 319, 283-286	3
2052 A CCD area detector for X-ray diffraction under high pressure for rotating anode source. 2000 , 23, 151-154	3
Pressure-dependent anharmonic coefficient of OH in portlandite by NIR-IR spectroscopy with DAC. 2000 , 95, 65-70	8

2050	Elasticity of MgO and a primary pressure scale to 55 GPa. 2000 , 97, 13494-9	364
2049	Electronic Structure of High-Pressure Alumina Polymorphs. 2000 , 17, 441-443	2
2048	Infrared studies of the organic superconductor kappa-(BEDT-TTF)2Cu(SCN)2under pressure. 2000 , 12, L247-L256	15
2047	Shock and Static Compression of Nitrobenzene. 2000 , 39, 4875-4880	6
2046	High-pressure infrared spectroscopy of solid oxygen. 2000 , 61, 8801-8805	22
2045	Structural phase transitions in CaSi2 under high pressure. 2000 , 62, 11392-11397	56
2044	Raman study of phase transition and hydrogen bond symmetrization in solid DCl at high pressure. 2000 , 61, 119-124	21
2043	Structural study of hexaiodobenzene up to 9.7 GPa. 2000 , 62, 8759-8765	8
2042	Pressure-induced crystallization of vitreous ZnCl2. 2000 , 61, 5934-5938	31
2041	Coupled magnon-phonon excitations in Sr2CuCl2O2 at high pressure. 2000 , 62, 3895-3899	16
2040	High-pressure phase transformation of corundum (⊞Al2O3) observed under shock compression. 2000 , 27, 2021-2024	38
2039	High pressure melting and equation of state of aluminium. 2000 , 305, 209-215	88
2038	Towards a metallic YH3 phase at high pressure. 2000 , 308, 44-48	37
2037	Raman spectroscopy of iron to 152 gigapascals: implications for Earth's inner core. 2000 , 288, 1626-9	115
2036	Effects of pressure on the two polymorphs of [Co(NH3)5NO2]I2: The anisotropy of lattice distortion and a phase transition. 2000 , 17, 79-99	19
2035	High-pressure phase transformation of the silicon clathrate Si136. 2000 , 12, 4013-4020	42
2034	High-pressure polymorphs of anatase TiO2. 2000 , 61, 14414-14419	202
2033	Melting of the rare earth metals and f-electron delocalization. 2000 , 85, 3444-7	56

(2001-2000)

2032	Transition to a crystalline high-pressure phase in G eO2 at room temperature. 2000 , 61, 8701-8706	40
2031	Pressure-induced phase transitions in gypsum. 2000 , 17, 57-75	13
2030	Molecular Dissociation in Deuterium Sulfide under High Pressure: Infrared and Raman Study. 2000 , 104, 8838-8842	15
2029	Isothermal compressibility of hydrous ringwoodite and its relation to the mantle discontinuities. 2000 , 27, 413-416	48
2028	High-pressure structure and electronic transport in hole-doped La3/4Ca1/4MnO3 perovskites. 2001 , 65,	61
2027	Crystalline post-quartz phase in silica at high pressure. 2001 , 87, 155503	94
2026	Complex crystal structure of cesium-III. 2001, 87, 255502	78
2025	Experimental and theoretical investigation of Mo2C at high pressure. 2001 , 13, 2447-2454	33
2024	Evaluation of the hydrostaticity of a helium-pressure medium with powder x-ray diffraction techniques. 2001 , 89, 662-668	178
2023	Superconductivity in boron. 2001 , 293, 272-4	266
2022	Effect of pressure on optical phonon modes and transverse effective charges in GaN and AlN. 2001 , 64,	195
2021	Synthesis of superhard cubic BC2N. 2001 , 78, 1385-1387	443
2020	Effect of pressure on crystal-field transitions of Nd-doped YLiF4. 2001 , 64,	27
2019	Ruby-spheres as pressure gauge for optically transparent high pressure cells. 2001 , 21, 305-314	170
2018	New diamond anvil cell for single-crystal analysis. 2001 , 72, 1458	33
2017	Lattice modes of solid nitrogen to 104 GPa. 2001 , 27, 870-872	
2017		49

2014 Melting of the alkaline-earth metals to 80 GPa. 2001 , 65,	70
2013 A CCD based detector for quick detection of pressure induced phase transitions. 2001 , 21, 51-64	1
2012 Formation of diamond by decarbonation of MnCO3. 2001 , 118, 195-198	11
2011 High-pressure behavior of 酌i (OH)2囚 Raman scattering study. 2001 , 307, 111-116	41
2010 Pressure-Induced Phase Transitions in Cadmium Thiogallate CdGa2Se4. 2001 , 160, 205-211	37
TlF and PbO under High Pressure: Unexpected Persistence of the Stereochemically Active Electron Pair. 2001 , 113, 4760-4765	8
TlF and PbO under High Pressure: Unexpected Persistence of the Stereochemically Active Electron Pair This work was supported by the Swedish National Science Research Council (NFR) and the Glan Gustafsson Foundation 2001 , 40, 4624-4629	22
2007 Magnetoexcitons in Zn0.98Mn0.02Te under High Hydrostatic Pressure. 2001 , 223, 171-175	2
2006 Novel Graphitic Spheres: Raman Spectroscopy at High Pressures. 2001 , 223, 293-298	11
2005 Carbon Dioxide at High Pressure and Temperature. 2001 , 223, 427-433	10
Pressure-induced quenching of the Jahn-Teller distortion and insulator-to-metal transition in LaMnO(3). 2001 , 87, 125501	230
2003 Semiconducting non-molecular nitrogen up to 240 GPa and its low-pressure stability. 2001 , 411, 170-4	261
The post-spinel transformation in Mg2SiO4 and its relation to the 660-km seismic discontinuity. 2001 , 411, 571-4	140
2001 High-pressure polymorphs of olivine and the 660-km seismic discontinuity. 2001 , 411, 574-7	75
High Pressure Probes of Electronic Structure and Luminescence Properties of Transition Metal and Lanthanide Systems. 2001 , 1-94	64
1999 MgB2under pressure: phonon calculations, Raman spectroscopy, and optical reflectance. 2001 , 13, 9945-9	962 60
1998 A Raman study of the organic superconductor E(BEDT-TTF)2Cu(SCN)2at high pressure. 2001 , 13, L291-L298	3 4
1997 Inhomogeneous broadening of Cr3+ luminescence in doped LiTaO3. 2001 , 63,	43

1996	Phase behavior of the N2Ar system at high pressures: A Raman spectroscopy study. 2001 , 64,	7
1995	Absence of a structural transition up to 40 GPa in MgB2 and the relevance of magnesium nonstoichiometry. 2001 , 64,	47
1994	Effect of pressure on the Raman anomaly of zinc-blende CuBr and Raman spectra of high-pressure phases. 2001 , 64,	16
1993	Compressibility of nanostructured alumina phases determined from synchrotron x-ray diffraction studies at high pressure. 2001 , 90, 3280-3285	31
1992	Raman study of pressure-induced structural change in C6I6 up to 47 GPa. 2001 , 64,	9
1991	Calibration of the R ruby fluorescence lines in the pressure range [0-1 GPa] and the temperature range [250-300 K]. 2001 , 21, 139-157	40
1990	X-ray diffraction and theoretical studies of the high-pressure structures and phase transitions in magnesium fluoride. 2001 , 64,	95
1989	Raman study of crystal-field excitations in Nd2CuO4 under pressure. 2001 , 64,	2
1988	Nuclear inelastic x-ray scattering of FeO to 48 GPa. 2001 , 87, 255501	63
1987	Vibrational line broadening in the mixed solid N2Kr: A high-pressure Raman study of the phase diagram. 2001 , 64,	6
1986	Equation of state and pressure induced amorphization of beta-boron from X-ray measurements up to 100 GPa. 2002 , 89, 245501	75
1985	The equation of state of PbTiO3up to 37 GPa: a synchrotron x-ray powder diffraction study. 2002 , 14, 10601-10604	29
1984	Crystal structure and lattice dynamics of AlB2 under pressure and implications for MgB2. 2002, 66,	58
1983	PressureNolume relationship of Ta. 2002 , 91, 4143-4148	29
1982	Transition to a cubic phase with symmetry-breaking disorder in PbZr0.52Ti0.48O3 at high pressure. 2002 , 65,	53
1981	Phase behavior of krypton and xenon to 50 GPa. 2002 , 65,	76
1980	Scheelite to fergusonite phase transition in YLiF4 at high pressures. 2002 , 65,	58
1979	Iron-silicon alloy in Earth's core?. 2002 , 295, 313-5	127

Temperature- and pressure-induced lattice distortion in CdCr2′xGaxSe4(x´0, 0.06, and 0.12). 200 14, 12423-12431	2 , 6
Compressibility to 7 GPa at 298 K of the protonated octahedral framework mineral burtite, CaSn(OH)6. 2002 , 66, 431-440	6
High-pressure Raman investigations of phase transformations in pentaerythritol (C(CH2OH)4). 2002 , 14, 10367-10375	11
Raman-active modes of porous gallium phosphide at high pressures and low temperatures. 2002 14, 13879-13887	2, 5
1974 The moissanite anvil cell: a new tool for high-pressure research. 2002 , 14, 11543-11548	35
Pressure-Induced Structural Phase Transition in the Spin-Ladder Compounds (Sr,M)14Cu24O41, with M=Ca, Ba, Nd. 2002 , 465-472	
1972 High-pressure Brillouin scattering from vitreous(Y2O3)0.27(P2O5)0.73. 2002 , 82, 755-761	1
1971 Superconductivity in the chalcogens up to multimegabar pressures. 2002 , 65,	52
1970 Structure of Rb-III: novel modulated stacking structures in alkali metals. 2002 , 88, 155503	69
1969 High-pressure structural properties of anthracene up to 10 GPa. 2002 , 66,	47
Raman spectroscopy of Co(OH)2 at high pressures: Implications for amorphization and hydrogen repulsion. 2002 , 66,	106
Structure and elasticity of single-crystal (Mg,Fe)O and a new method of generating shear waves gigahertz ultrasonic interferometry. <i>Journal of Geophysical Research</i> , 2002 , 107, ECV 4-1	for ₁₂₃
1966 Evidence for xenon silicates at high pressure and temperature. 2002 , 29, 30-1-30-4	21
	24
1965 New windows on earth and planetary interiors. 2002 , 66, 791-811	
New windows on earth and planetary interiors. 2002 , 66, 791-811 Sodium under pressure: bcc to fcc structural transition and pressure-volume relation to 100 GPa. 2002 , 65,	
Sodium under pressure: bcc to fcc structural transition and pressure-volume relation to 100 GPa.	. 103
Sodium under pressure: bcc to fcc structural transition and pressure-volume relation to 100 GPa. 2002 , 65, Optimization of Sm3+ fluorescence in Sm-doped yttrium aluminum garnet: Application to pressure-volume relation to 100 GPa.	103

1960	High-pressure transformations in xenon hydrates. 2002 , 99, 25-8	56
1959	Equation of state of gold and its application to the phase boundaries near 660 km depth in Earth mantle. 2002 , 203, 729-739	170
1958	Structure redetermination and high pressure behaviour of AgCuO2. 2002 , 338, 99-103	27
1957	In situ x-ray diffraction and Raman spectroscopy of pressure-induced phase transformation in spinel Zn2TiO4. 2002 , 66,	44
1956	Structural and electrical properties of beryllium metal to 66 GPa studied using designer diamond anvils. 2002 , 65,	25
1955	High pressure Raman spectroscopy of ferrite MgFe2O4. 2002 , 37, 1589-1602	139
1954	Metastable NaYF4 fluorite at high pressures and high temperatures. 2002 , 4, 895-899	42
1953	Antifluorite to Ni2In-type phase transition in K2S at high pressures. 2002 , 4, 1077-1081	43
1952	Hexagonal Na1.5Y1.5F6 at High Pressures. 2002 , 165, 159-164	75
1951	High-Pressure Raman Spectroscopic Study of Spinel (ZnCr2O4). 2002 , 165, 165-170	114
1950	Pressure and Temperature Dependence of the Ferroelectric Paraelectric Phase Transition in PbTiO3. 2002 , 167, 446-452	27
1949	Pressure-Induced Structural Deformations in SeO2. 2002 , 168, 184-191	16
1948	Irreversible amorphization of tetragonal two-dimensional polymeric C60 under high pressure. 2002 , 121, 241-244	23
1947	Pressure induced phase transformations in nanocrystalline maghemite (EFe2O3). 2002 , 123, 195-200	34
1946	High pressure Raman spectroscopic study of spinel MgCr2O4. 2002 , 63, 2057-2061	49
1945	Optical studies of solid hydrogen to 320 GPa and evidence for black hydrogen. 2002 , 416, 613-7	348
1944	High-pressure Raman spectroscopy study of wurtzite ZnO. 2002 , 65,	426
1943	Collapsing cristobalitelike structures in silica analogues at high pressure. 2003 , 91, 015503	50

1942	Effect of pressure on electrical resistance of WSe2 single crystal. 2003 , 61, 183-186	8
1941	PII phase diagram of PbZr0.52Ti0.48O3 (PZT). 2003 , 5, 451-457	28
1940	Raman scattering studies at high pressure and low temperature: technique and application to the piezoelectric material PbZr0.52Ti0.48O3. 2003 , 34, 519-523	15
1939	Raman spectroscopy of metals, high-temperature superconductors and related materials under high pressure. 2003 , 34, 532-548	73
1938	Megabar high-pressure cells for Raman measurements. 2003 , 34, 515-518	60
1937	High pressure Raman spectroscopy of spinel-type ferrite ZnFe2O4. 2003 , 64, 2517-2523	194
1936	Compressibility and vibrational property of Gd0.7B12Si3.03: a compound with two-dimensional boron icosahedral framework. 2003 , 379, 47-52	5
1935	New phases of N2O4 at high pressures and high temperatures. 2003 , 382, 686-692	16
1934	Bulk modulus of solid deuterium at 15 K. 2003 , 372, 373-376	4
1933	An in situ Raman spectroscopic study of pressure induced dissociation of spinel NiCr2O4. 2003 , 64, 425-431	54
1933 1932	An in situ Raman spectroscopic study of pressure induced dissociation of spinel NiCr2O4. 2003 , 64, 425-431 Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003 , 170, 382-389	54 16
	Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003 ,	
1932	Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003 , 170, 382-389 Pressure dependence of TC of the layered superconductor Y2C2I2: lattice versus electronic effects.	16
1932	Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003, 170, 382-389 Pressure dependence of TC of the layered superconductor Y2C2I2: lattice versus electronic effects. 2003, 171, 367-370	16 6
1932 1931 1930	Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003, 170, 382-389 Pressure dependence of TC of the layered superconductor Y2C2I2: lattice versus electronic effects. 2003, 171, 367-370 High-pressure structure of Li2CO3. 2003, 173, 13-19 Pressure-induced metastable phase transition in orthoenstatite (MgSiO3) at room temperature: a	16 6 25
1932 1931 1930	Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003, 170, 382-389 Pressure dependence of TC of the layered superconductor Y2C2I2: lattice versus electronic effects. 2003, 171, 367-370 High-pressure structure of Li2CO3. 2003, 173, 13-19 Pressure-induced metastable phase transition in orthoenstatite (MgSiO3) at room temperature: a Raman spectroscopic study. 2003, 174, 403-411 Neue Alkalimetall-halogenopalladate(II) mit Iodeinlagerung [Kristallstrukturen,	16 6 25 26
1932 1931 1930 1929 1928	Raman scattering study on pressure-induced phase transformation of marokite (CaMn2O4). 2003, 170, 382-389 Pressure dependence of TC of the layered superconductor Y2C2I2: lattice versus electronic effects. 2003, 171, 367-370 High-pressure structure of Li2CO3. 2003, 173, 13-19 Pressure-induced metastable phase transition in orthoenstatite (MgSiO3) at room temperature: a Raman spectroscopic study. 2003, 174, 403-411 Neue Alkalimetall-halogenopalladate(II) mit Iodeinlagerung [Kristallstrukturen, PhasenBergåge und Spektroskopie. 2003, 629, 545-550	16 6 25 26 4

1924	Pseudoamorphization of Cs2HgBr4. 2003 , 68,	22
1923	Aluminum in magnesium silicate perovskite: Formation, structure, and energetics of magnesium-rich defect solid solutions. <i>Journal of Geophysical Research</i> , 2003 , 108,	37
1922	Superconducting phase diagram of Li metal in nearly hydrostatic pressures up to 67 GPa. 2003, 91, 167001	163
1921	Electronic structure of self-assembled InP/GaP quantum dots from high-pressure photoluminescence. 2003 , 67,	26
1920	High-pressure Raman and X-ray studies of barite, BaSO4. 2003 , 23, 439-450	22
1919	Refinement of the ruby luminescence pressure scale. 2003 , 93, 1813-1818	98
1918	High-pressure x-ray diffraction and Raman spectroscopic studies of the tetragonal spinel CoFe2O4. 2003 , 68,	85
1917	Melting of tantalum at high pressure determined by angle dispersive x-ray diffraction in a double-sided laser-heated diamond-anvil cell. 2003 , 15, 7635-7649	102
1916	Scheelite CaWO4at high pressures. 2003, 15, 7261-7270	35
1915	Raman Spectroscopic Study of Pressure Effects on the Spin-Crossover Coordination Polymers Fe(Pyrazine)[M(CN)4][2H2O (M = Ni, Pd, Pt). First Observation of a Piezo-Hysteresis Loop at Room Temperature. 2003 , 107, 3149-3155	111
1914	Equation of state and phonon frequency calculations of diamond at high pressures. 2003, 68,	69
1913	Electrical resistance measurements under pressure on NbTe2 single crystal. 2003, 23, 379-387	5
1912	Pressure. 2003 , 6, 43-95	1
1911	Amorphous boron gasket in diamond anvil cell research. 2003 , 74, 4732-4736	48
1910	Phase transition between the CaCl2-type and PbO2-type structures of germanium dioxide. 2003 , 68,	26
1909	High-pressure structure and equation of state study of nitrosonium nitrate from synchrotron x-ray diffraction. 2003 , 118, 8350-8356	17
1908	UPd3 under high pressure: Lattice properties. 2003 , 67,	12
1907	Measurement of refractive index and equation of state in dense He, H2, H2O, and Ne under high pressure in a diamond anvil cell. 2003 , 67,	93

	phase transitions of ice at low temperatures and pressures up to 50 f low-temperature ice VII. 2003 , 68,	17
1905 Infrared investigation on ice	e VIII and the phase diagram of dense ices. 2003 , 68,	49
Equation of state and intern 1904 pressures and temperatures	molecular interactions in fluid hydrogen from Brillouin scattering at hig s. 2003 , 118, 10683-10695	1h 28
Vibrational modeling of the Raman spectroscopic study.	thermodynamic properties of magnetite (Fe3O4) at high pressure from . 2003 , 119, 6100-6110	m 31
	nsformations, and vibrational dynamics of nitrosonium nitrate from aman spectroscopy. 2003 , 119, 2232-2240	19
High-pressure synthesis and phases. 2003 , 68,	d study of low-compressibility molybdenum nitride (MoN and MoN1⊠)	61
1900 High pressure and high tem	perature phase transformations in LiNbO3. 2003 , 93, 3852-3858	14
1899 Electronic thermal pressure 2003 , 93, 9679-9682	and equation of state of gold at high temperature and high pressure.	13
Pressure-induced changes in 2003 , 67,	n protactinium metal: Importance to actinide-metal bonding concepts.	48
1897 High-pressure phase transit	ions in tetrakis(trimethylsilyl)silane Si[Si(CH3)3]4. 2003 , 23, 425-437	
1896 Chain-length-dependent int	termolecular packing in polyphenylenes: a high pressure study. 2003 , 19	5, 3375-3389 ₃₉
High-pressure single crystal synthetic OH-chondrodite. 2	X-ray diffraction and FT-IR observation of natural chondrodite and 2004 , 99, 118-129	11
1894 New condensed matter prol	bes for diamond anvil cell technology. 2004 , 16, S1071-S1086	4
1893 Decomposition of LiGdF4scl	heelite at high pressures. 2004 , 16, 7779-7786	19
1892 Structural evolution of the C	CuGaO2 delafossite under high pressure. 2004 , 69,	63
1891 Polymerization of nitrogen i	in sodium azide. 2004 , 120, 10618-23	120
Pressure-induced magnetiza 2004, 93, 215502	ation in FeO: evidence from elasticity and M\(\mathbb{B}\)sbauer spectroscopy.	51
1889 Structural transformation of 2004 , 121, 11296-300	f molecular nitrogen to a single-bonded atomic state at high pressures	. 145

1888	Raman spectroscopy and x-ray diffraction of phase transitions in Cr2O3 to 61 GPa. 2004 , 69,	93
1887	Confirmation of the incommensurate nature of Se I V at pressures below 70GPa. 2004 , 70,	41
1886	Effect of pressure on crystal-field transitions of Nd-doped YVO4. 2004 , 69,	28
1885	High-pressure phase diagram of Bi2Sr2CaCu2O8+Bingle crystals. 2004 , 70,	30
1884	O2N2 mixtures under pressure: A structural study of the binary phase diagram at 295K. 2004 , 70,	14
1883	Compression of polyhedral graphite up to 43 GPa and x-ray diffraction study on elasticity and stability of the graphite phase. 2004 , 84, 5112-5114	25
1882	High pressure ultrasonic and x-ray studies on monolithic SiC composite. 2004 , 95, 1806-1810	15
1881	Neutron and X-Ray Diffraction Studies of Piezoelectric Materials under Non-Ambient Conditions. 2004 , 443-444, 277-282	
1880	Chapter 15 Transport properties in deep depths and related condensed-matter phenomena. 2004 , 9, 1041-1203	
1879	Polyhedral control of the rhombohedral to cubic phase transition in LaAlO3 perovskite. 2004 , 16, 8763-8773	39
1878	Structure of crystalline and amorphous Ge probed by X-ray absorption and diffraction techniques. 2004 , 24, 93-99	12
1877	Far-infrared study on pressure-induced metal-insulator transition of CuIr/sub 2/Se/sub 4/ under high pressure.	
1876	Polymorphic forms of Rb2Te: in-situ high-pressure DAC X-ray diffraction investigations and structure modelling with CASTEP. 2004 , 219, 359-369	9
1875	Shear waves in the diamond-anvil cell reveal pressure-induced instability in (Mg,Fe)O. 2004 , 101, 5867-71	49
1874	LiSrAlF6with the LiBaCrF6-type structure. 2004 , 16, 3005-3013	6
1873	The crystal structures of pressure-induced LiSrAlF6-II and LiCaAlF6-II. 2004 , 16, 1033-1043	9
1872	Anomalous Dynamical Charge Change Behavior of Nanocrystalline 3C-SiC upon Compression. 2004 , 87, 2291-2293	6
1871	Single-bonded cubic form of nitrogen. 2004 , 3, 558-63	639

1870	Pressure tuning of the morphotropic phase boundary in piezoelectric lead zirconate titanate. 2004 , 70,	54
1869	Structural properties of the zircon- and scheelite-type phases of YVO4 at high pressure. 2004, 70,	101
1868	High pressure phase transitions in BaWO4. 2004 , 130, 203-208	50
1867	Recombination dynamics in self-assembled InP/GaP quantum dots under high pressure. 2004 , 241, 3263-3268	1
1866	Structural properties, infrared reflectivity, and Raman modes of SnO at high pressure. 2004 , 241, 3168-3178	73
1865	On the phase-transition in anthracene induced by high pressure. 2004 , 129, 103-106	23
1864	Hydrogen ordering in rhenium hydride: anti-CdI2 type structure of ReH0.36. 2004 , 130, 59-62	6
1863	Pressure induced hexagonal to cubic phase transformation in erbium trihydride. 2004 , 130, 219-221	45
1862	High-pressure synthesis of a new copper hydride from elements. 2004 , 131, 169-173	32
1861	High-pressure phase transition of hematite, Fe2O3. 2004 , 65, 1527-1530	69
1860	High-pressure single-crystal X-ray diffraction study of YAlO3 perovskite. 2004 , 177, 1276-1284	63
1859	High-pressure structural behavior of GdAlO3 and GdFeO3 perovskites. 2004 , 177, 3768-3775	44
1858	High-pressure UV spectroscopy on oxygen up to 1.5 GPa. 2004 , 392, 476-479	4
1857	Raman spectroscopy on high-pressure fluids of molecular oxygen and nitrogen. 2004 , 400, 326-330	10
1856	Magnetic transition in compressed Fe3C from x-ray emission spectroscopy. 2004 , 70,	54
1855	A comparison of volume compressions of silver and gold up to 150 GPa. 2004 , 95, 4767-4771	32
1854	High-pressure phases in highly piezoelectric PbZr0.52Ti0.48O3. 2004 , 69,	56
1853	High-pressure behaviour of selenium-based spinels and related structures and experimental and theoretical study. 2004 , 16, 53-63	16

(2004-2004)

1852	X-ray study of the synthesis of boron oxides at high pressure: Phase diagram and equation of state. 2004 , 70,	50
1851	Formation and structure of a dense octahedral glass. 2004 , 93, 115502	143
1850	Pressure-induced melting of charge-order in the self-doped Mott insulator YNiO3. 2004, 69,	24
1849	Compression of iron hydride to 80 GPa and hydrogen in the Earth's inner core. 2004 , 31, n/a-n/a	47
1848	Effect of aluminium on the compressibility of silicate perovskite. 2004 , 31,	23
1847	A new high-pressure form of KAlSi3O8 under lower mantle conditions. 2004 , 31,	32
1846	Single-crystal elasticity of grossular- and almandine-rich garnets to 11 GPa by Brillouin scattering. Journal of Geophysical Research, 2004 , 109,	44
1845	Single-crystal elasticity of fayalite to 12 GPa. Journal of Geophysical Research, 2004, 109,	45
1844	Rhenium, an in situ pressure calibrant for internally heated diamond anvil cells. 2004 , 75, 2409-2418	33
1843	Experimental evidence for a high-pressure isostructural phase transition in osmium. 2004 , 93, 095502	111
	Experimental evidence for a high-pressure isostructural phase transition in osmium. 2004 , 93, 095502 High-pressure Raman study of the Sr2CaWO6 double perovskite. 2004 , 16, 8367-8376	111
1842		
1842 1841	High-pressure Raman study of the Sr2CaWO6 double perovskite. 2004 , 16, 8367-8376	20
1842 1841	High-pressure Raman study of the Sr2CaWO6 double perovskite. 2004, 16, 8367-8376 Crystal structure of LaTiO3.41 under pressure. 2004, 69, Complex crystal structures of Te-II and Se-III at high pressure. 2004, 70,	20
1842 1841 1840	High-pressure Raman study of the Sr2CaWO6 double perovskite. 2004, 16, 8367-8376 Crystal structure of LaTiO3.41 under pressure. 2004, 69, Complex crystal structures of Te-II and Se-III at high pressure. 2004, 70, Coupling static and dynamic compressions: first measurements in dense hydrogen. 2004, 24, 25-31	20 19 51
1842 1841 1840 1839	High-pressure Raman study of the Sr2CaWO6 double perovskite. 2004, 16, 8367-8376 Crystal structure of LaTiO3.41 under pressure. 2004, 69, Complex crystal structures of Te-II and Se-III at high pressure. 2004, 70, Coupling static and dynamic compressions: first measurements in dense hydrogen. 2004, 24, 25-31	20195179
1842 1841 1840 1839	High-pressure Raman study of the Sr2CaWO6 double perovskite. 2004, 16, 8367-8376 Crystal structure of LaTiO3.41 under pressure. 2004, 69, Complex crystal structures of Te-II and Se-III at high pressure. 2004, 70, Coupling static and dynamic compressions: first measurements in dense hydrogen. 2004, 24, 25-31 Isotopically pure C13 layer as a stress sensor in a diamond anvil cell. 2004, 84, 5308-5310 Bulk modulus of osmium: High-pressure powder x-ray diffraction experiments under quasihydrostatic conditions. 2004, 70,	20 19 51 79

1834	Microscopic structure of nanometer-sized silica particles. 2004 , 69,	78
1833	B1-to-B2 phase transition of transition-metal monoxide CdO under strong compression. 2004 , 70,	60
1832	Equation of state of water based on speeds of sound measured in the diamond-anvil cell. 2004 , 68, 1827-1835	5 81
1831	Complicated effects of aluminum on the compressibility of silicate perovskite. 2004 , 143-144, 81-91	38
1830	A critical evaluation of pressure scales at high temperatures by in situ X-ray diffraction measurements. 2004 , 143-144, 515-526	102
1829	Māsbauer spectroscopic study of pressure-induced magnetisation in wātite (FeO). 2004 , 376, 5-8	34
1828	The bulk modulus of ThO2Bn experimental and theoretical study. 2004 , 381, 37-40	60
1827	Refinement of the equation of state of tantalum. 2004 , 69,	39
1826	Raman scattering in 眍nS. 2004 , 69,	132
1825	Equations of state of six metals above 94GPa. 2004 , 70,	558
	Equations of state of six metals above 94GPa. 2004 , 70, Raman spectrum of cubic boron nitride at high pressure and temperature. 2004 , 69,	558 45
	Raman spectrum of cubic boron nitride at high pressure and temperature. 2004 , 69,	
1824	Raman spectrum of cubic boron nitride at high pressure and temperature. 2004 , 69, Raman scattering and x-ray diffraction studies of polycrystalline CaCu3Ti4O12 under high-pressure.	45
1824	Raman spectrum of cubic boron nitride at high pressure and temperature. 2004 , 69, Raman scattering and x-ray diffraction studies of polycrystalline CaCu3Ti4O12 under high-pressure. 2004 , 70, Diamond under pressure: Ab-initio calculations of the equation of state and optical phonon	45 46
1824 1823 1822	Raman spectrum of cubic boron nitride at high pressure and temperature. 2004 , 69, Raman scattering and x-ray diffraction studies of polycrystalline CaCu3Ti4O12 under high-pressure. 2004 , 70, Diamond under pressure: Ab-initio calculations of the equation of state and optical phonon frequency revisited. 2004 , 24, 101-110	45 46 15
1824 1823 1822	Raman spectrum of cubic boron nitride at high pressure and temperature. 2004, 69, Raman scattering and x-ray diffraction studies of polycrystalline CaCu3Ti4O12 under high-pressure. 2004, 70, Diamond under pressure: Ab-initio calculations of the equation of state and optical phonon frequency revisited. 2004, 24, 101-110 Pressure-induced phase transitions in Al2(WO4)3. 2005, 178, 998-1002 Pressure-induced low symmetry phases in Ti-rich lead zirconate titanate PbZr0.20Ti0.80O3. 2005,	45 46 15 23
1824 1823 1822 1821	Raman spectrum of cubic boron nitride at high pressure and temperature. 2004, 69, Raman scattering and x-ray diffraction studies of polycrystalline CaCu3Ti4O12 under high-pressure. 2004, 70, Diamond under pressure: Ab-initio calculations of the equation of state and optical phonon frequency revisited. 2004, 24, 101-110 Pressure-induced phase transitions in Al2(WO4)3. 2005, 178, 998-1002 Pressure-induced low symmetry phases in Ti-rich lead zirconate titanate PbZr0.20Ti0.80O3. 2005, 25, 2393-2396	45 46 15 23

(2005-2005)

1816	2005, 133, 481-486	40
1815	High pressure studies of the erbiumBydrogen system. 2005 , 135, 226-231	25
1814	Investigations of pressure induced structural phase transformations in pentaerythritol. 2005 , 136, 56-61	2
1813	Structural changes and pressure-induced amorphization in rare earth titanates RE2Ti2O7 (RE: Gd, Sm) with pyrochlore structure. 2005 , 413, 248-251	72
1812	Interplay of metallic and ionic bonding in layered subnitrides AE2N (AE = Ca, Sr, or Ba) under high pressure. 2005 , 8, 1897-1905	16
1811	High pressure structural study of SmNiO3. 2005 , 17, S783-S788	21
1810	High-Pressure Phase Behavior of Alumina: Predictions of a Transferable Ionic Potential Model. 2005 , 81, 2558-2564	7
1809	Compressibility and Phase Transition Kinetics of Lanthanide-Doped Zircon. 2005 , 88, 1345-1348	9
1808	Crystal chemistry of wadsleyite II and water in the Earth interior. 2005, 31, 691-705	21
1807	Polymorphic phase transition in Superhydrous Phase B. 2005 , 32, 349-361	24
1806	High-pressure X-ray and Raman study of a ferrian magnesian spodumene. 2005 , 32, 132-139	17
1805	Dilithium zirconium hexafluoride Li2ZrF6 at high pressures: A new monoclinic phase. 2005 , 66, 1769-1774	5
1804	Low-temperature and high-pressure structural behaviour of NaBi(MoO4)2 In X-ray diffraction study. 2005 , 178, 2218-2224	36
1803	Pressure-induced transition in titanium metal: a systematic study of the effects of uniaxial stress. 2005 , 355, 116-125	294
1802	SrWO4 at high pressures. 2005 , 242, 2795-2802	22
1801	The crystal data and stability of calcite III at high pressures based on single-crystal X-ray experiments. 2005 , 100, 31-36	12
1800	Materials Standards and Specifications. 2005,	
1799	Calibration based on a primary pressure scale in a multi-anvil device. 2005 , 427-449	2

1798	A gigahertz ultrasonic interferometer for the diamond anvil cell and high-pressure elasticity of some iron-oxide minerals. 2005 , 25-48	10
1797	Molecules to Microbes. 2005, 83-108	1
1796	Aqueous Chemistry in the Diamond Anvil Cell up to and Beyond the Critical Point of Water. 2005 , 223-240	5
1795	The Equation of State and Chemistry at Extreme Conditions: Applications to Detonation Products. 2005 , 399-429	
1794	Nitrogen-Containing Molecular Systems at High Pressures and Temperature. 2005 , 189-222	2
1793	The effect of pressure on the structural properties of the spin-tetrahedra compound Cu2Te2O5Br2. 2005 , 17, S807-S812	9
1792	One picture says it allfligh-pressure cells for neutron Laue diffraction on VIVALDI. 2005, 17, S3017-S3024	16
1791	Synchrotron facilities and the study of the Earth's deep interior. 2005 , 68, 1811-1859	61
1790	Pressure-Induced Shifts of R , R ?, and B Line-Groups and Ground-State Zero-Field-Splitting of Ruby. 2005 , 43, 941-947	6
1789	Vibrational properties of delafossite CuGaO2 at ambient and high pressures. 2005 , 72,	67
1788	Infrared properties of the quasi-one-dimensional superconductor №a0.33V2O5 under pressure. 2005 , 71,	21
1787	Post-PbCl2 phase transformation of TeO2. 2005 , 72,	10
1786	High-pressure stability of the tetragonal spinel MgMn2O4: Role of inversion. 2005, 71,	19
1785	Phase transitions in Sc2(WO4)3 under high pressure. 2005 , 72,	21
1784	Vibrational spectroscopy of Fe(OH)2 at high pressure: Behavior of the O-H bond. 2005 , 71,	18
1783	Structural properties of the sesquicarbide superconductor La2C3 at high pressure. 2005 , 72,	15
1782	Raman scattering in osmium under pressure. 2005 , 71,	15
1781	Electronic stiffness of a superconducting niobium nitride single crystal under pressure. 2005 , 72,	23

1780	High-pressure phase diagram of ZnSexTe1⊠ alloys. 2005 , 71,	12
1779	High-pressure structural study of the scheelite tungstates CaWO4 and SrWO4. 2005 , 72,	152
1778	Hard superconducting nitrides. 2005 , 102, 3198-201	225
1777	The high-pressure structural phase transitions of sodium bismuth titanate. 2005 , 220, 717-725	22
1776	Stability of Hume-Rothery phases in Culdn alloys at pressures up to 50 GPa. 2005, 17, 7955-7962	12
1775	Iron spin transition in Earth's mantle. 2005 , 102, 17918-22	161
1774	X-ray diffraction and Raman studies of beryllium: Static and elastic properties at high pressures. 2005 , 72,	36
1773	Relative stability and elastic properties of hcp, bcc, and fcc beryllium under pressure. 2005, 71,	61
1772	Melting of copper and nickel at high pressure: the role of d electrons. 2005 , 95, 167801	97
1771	The high-pressure phase of alumina and implications for Earth's D'' layer. 2005 , 102, 10828-31	99
1770	Structural investigation of Btabilized plutonium alloys under pressure. 2005 , 893, 1	2
1769	Ikaite (CaCO3.6H2O) compressibility at high water pressure: a synchrotron X-ray diffraction study. 2005 , 69, 325-335	15
1768	High-pressure dissociation of crystalline para-diiodobenzene: optical experiments and Car-Parrinello calculations. 2005 , 127, 3038-43	16
1767	Far-Infrared Spectroscopy of Electronic States of CuIr2Se4 at High Pressure. 2005 , 74, 1099-1102	13
1766	Structural refinement of the high-pressure phase of aluminum trihydroxide: in-situ high-pressure angle dispersive synchrotron X-ray diffraction and theoretical studies. 2005 , 109, 8857-60	20
1765	X-ray diffraction at high pressure and high or low temperature using synchrotron radiation. 2005 , 401, 11-17	20
1764	Bulk modulus of CeO2 and PrO2An experimental and theoretical study. 2005, 400, 56-61	179
1763	In situ X-ray diffraction study of post-spinel transformation in a peridotite mantle: Implication for the 660-km discontinuity. 2005 , 238, 311-328	94

1762	Melting curve and high-pressure chemistry of formic acid to 8 GPa and 600 K. 2005 , 109, 19443-7	20
1761	Octahedral tilting evolution and phase transition in orthorhombic NaMgF3 perovskite under pressure. 2005 , 32, n/a-n/a	41
1760	High-pressure sound velocities and elasticity of aluminous MgSiO3 perovskite to 45 GPa: Implications for lateral heterogeneity in Earth's lower mantle. 2005 , 32,	31
1759	Fe3+ and Al solubilities in MgSiO3 perovskite: implication of the Fe3+AlO3 substitution in MgSiO3 perovskite at the lower mantle condition. 2005 , 32,	30
1758	Effect of pressure on the structural properties and Raman modes of LiCoO2. 2005 , 72,	38
1757	Finite-size and pressure effects on the Raman spectrum of nanocrystalline anatase TiO2. 2005, 71,	331
1756	Progress in the realization of a practical pressure scale for the range 1B00 GPa. 2005 , 25, 87-99	31
1755	Pressure-induced tricritical phase transition from the scheelite structure to the fergusonite structure in LiLuF4. 2005 , 17, 763-770	18
1754	Rietveld refinement study of the pressure dependence of the internal structural parameter u in the wurtzite phase of ZnO. 2005 , 71,	63
1753	Crystal structural phase transition in CaCrO4under high pressure. 2006 , 18, 2421-2428	18
1752	Raman spectroscopic study on the hydration structures of tetraethylammonium cation in water. 2006 , 110, 10829-33	30
1751	Phase transitions in solids stimulated by simultaneous exposure to high pressure and relativistic heavy ions. 2006 , 96, 195701	46
1750	Effect of pressure on the resonant multiphonon Raman scattering in UO2. 2006 , 73,	85
1749	O8 cluster structure of the epsilon phase of solid oxygen. 2006 , 97, 085503	95
1748	Spin crossover in (Mg,Fe)O: A M\(\text{S}\)sbauer effect study with an alternative interpretation of x-ray emission spectroscopy data. 2006 , 73,	52
1747	High-pressure x-ray and neutron powder diffraction study of PbWO4and BaWO4scheelites. 2006 , 18, 3017-3029	27
1746	Pressure and temperature dependence of the lattice dynamics of CuAlO2 investigated by Raman scattering experiments and ab initio calculations. 2006 , 74,	87
1745	High-pressure chemistry of nitride-based materials. 2006 , 35, 987-1014	185

(2006-2006)

1744	High-pressure structural study of Fe64Ni36 and Fe72Pt28 Invar alloys at low-temperature. 2006 , 74,	18
1743	Structural stability and pressure-induced phase transitions in MgH2. 2006 , 73,	134
1742	Liquidlike behavior of supercritical fluids. 2006 , 97, 245702	81
1741	Pressure-induced elastic softening of monocrystalline zirconium tungstate at 300K. 2006, 73,	45
1740	Equation of state of antigorite, stability field of serpentines, and seismicity in subduction zones. 2006 , 33,	48
1739	Crystal structure and equation of state of MgSiO3 perovskite. 2006 , 33,	34
1738	High-pressure elasticity of calcium oxide: A comparison between Brillouin spectroscopy and radial X-ray diffraction. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a	27
1737	Single-crystal elasticity and sound velocities of (Mg0.94Fe0.06)O ferropericlase to 20 GPa. <i>Journal of Geophysical Research</i> , 2006 , 111,	35
1736	High-pressure phase transition in Mn2O3: Application for the crystal structure and preferred orientation of the CaIrO3 type. 2006 , 33,	49
1735	Elastic properties of hydrous ringwoodite at high-pressure conditions. 2006 , 33,	33
1734	Physical and mechanical properties of C60 under high pressures and high temperatures. 2006 , 26, 175-183	12
1733	Determination of the high-pressure crystal structure of BaWO4 and PbWO4. 2006 , 73,	88
1732	Different incommensurate composite crystal structure for Sc-II. 2006 , 73,	38
1731	Structure and stability of ZrSiO4 under hydrostatic pressure. 2006 , 74,	37
1730	Superconductivity at 17K in yttrium metal under nearly hydrostatic pressures up to 89GPa. 2006 , 73,	57
1729	Subsolidus phase relations and perovskite compressibility in the system MgOAlO1.5BiO2 with implications for Earth's lower mantle. 2006 , 248, 77-89	29
1728	Factors determining the stability, resolution, and precision of a conventional Raman spectrometer. 2006 , 60, 946-50	53
1727	High pressure X-ray diffraction study of all FeBn intermetallic compounds and one FeBn solid solution. 2006 , 422, 132-144	46

1726	Experimental study of the NaCl⊞2O system up to 28 GPa: Implications for ice-rich planetary bodies. 2006 , 155, 152-162	29
1725	Phase transformations of subducted basaltic crust in the upmost lower mantle. 2006 , 157, 139-149	64
1724	High pressure [high temperature studies and reactivity of EMo2N and EMoN. 2006, 203, 831-836	25
1723	Pressure-dependent infrared spectroscopy on the fullerene rotorEtator compound C60L18H8. 2006 , 243, 2981-2984	10
1722	Structure of the intermediate high-pressure phases of ternary lead tellurides. 2006 , 83, 228-232	17
1721	High-pressure far-infrared absorption measurements on La1\(\mathbb{R}\)CaxMnO3\(\mathbb{B}\)y means of synchrotron radiation. 2006 , 49, 92-95	
1720	High-pressure infrared spectroscopy on quasi-one-dimensional metals. 2006 , 49, 88-91	6
1719	Development of a low-pressure diamond anvil cell and analytical tools to monitor microbial activities in situ under controlled P and T. 2006 , 1764, 434-42	28
1718	Radiation-induced decomposition of PETN and TATB under pressure. 2006 , 429, 304-309	14
1717	BR study of short-range charge order in YNiO3 above the monoclinicBrthorhombic transition. 2006 , 374-375, 87-90	5
1716	High pressure X-ray diffraction study of tungsten disulfide. 2006 , 67, 2183-2186	32
1715	Theoretical investigation of the Cu EOS standard. 2006 , 67, 2033-2040	26
1714	Pressure-induced structural changes of the tetragonal Bi2CuO4. 2006 , 179, 1202-1207	1
1713	High-pressure studies of SrNi3(P2O7)2 pyrophosphate by Raman spectroscopy and X-ray diffraction. 2006 , 794, 334-340	12
1712	X-ray diffraction investigation of the hexagonalEcc structural transition in yttrium trihydride under hydrostatic pressure. 2006 , 138, 436-440	51
1711	Raman and x-ray diffraction investigations on BaMoO(4) under high pressures. 2006 , 18, 3917-29	30
1710	Advances in data reduction of high-pressure x-ray powder diffraction data from two-dimensional detectors: a case study of schafarzikite (FeSb(2)O(4)). 2006 , 18, S1021-37	10
1709	Dynamic compression of materials: metallization of fluid hydrogen at high pressures. 2006 , 69, 1479-1580	166

1708 Equations of state of Al, Au, Cu, Pt, Ta, and W and revised ruby pressure scale. 2006 , 410, 1091-1095	17
Measuring the speed of sound in an iron-nickel alloy at high pressure by inelastic X-ray scattering. 2006 , 51, 584-587	
1706 Elastic properties and stability of coexisting 3T and 2M 1 phengite polytypes. 2006 , 32, 670-678	24
1705 On the elastic behaviour of zeolite mordenite: a synchrotron powder diffraction study. 2006 , 32, 726-732	26
1704 Pressure-induced phase transition in Mg0.8Fe0.2O ferropericlase. 2006 , 33, 35-44	19
1703 Crystal structure and compression of an iron-bearing Phase A to 33 GPa. 2006 , 33, 192-199	13
1702 Elastic behaviour and structural evolution of topaz at high pressure. 2006 , 33, 235-242	17
Structural evolution of zeolite levyne under hydrostatic and non-hydrostatic pressure: geometric modelling. 2006 , 33, 243-255	20
Pressure effect on the electronic structure of iron in (Mg,Fe)(Si,Al)O3 perovskite: a combined synchrotron MBsbauer and X-ray emission spectroscopy study up to 100 GPa. 2006 , 33, 575-585	70
1699 High-pressure structure of LaSr2Mn2O7 bilayer manganite. 2006 , 67, 2046-2050	7
1698 X-ray diffraction study of molybdenum disulfide to 38.8 GPa. 2006 , 67, 1914-1917	64
1697 Structural behavior of Sr2Bi2O5 at high pressures. 2006 , 179, 544-550	6
1696 Pressure-induced structural changes in Bi2SrO4 compound. 2006 , 41, 2007-2012	
1695 Pressure-induced orderdisorder transitions in pyrochlore RE2Ti2O7 (RE=Y, Gd). 2006 , 60, 2773-2776	59
1694 The compressibility mechanism of Li3Na3In2F12garnet. 2006 , 18, 2915-2924	3
1693 Pressure-Induced Distortive Phase Transition in Chromite-Spinel at 29 GPa. 2006 , 987, 1	2
Pressure Dependence of Electron Density Distribution of Ferroielectric KNbO3 Polymorphs by Maximum Entropy Method (MEM) Using Single Crystal Diffraction Study. 2006 , 987, 1	
Pressure-induced deconfinement of the charge transport in the quasi-one-dimensional Mott insulator (TMTTF)2AsF6. 2006 , 74,	62

1690 Pressure-induced antifluorite-to-anticotunnite phase transition in lithium oxide. 2006 , 73,	49
Accurate equation of state of AlPdMn up to 35 GPa and pressure effect on the frozen-in phason strain. 2006 , 96, 105501	4
1688 Pressure-induced long-range magnetic ordering in cobalt oxide. 2006 , 74,	15
1687 Raman spectrum of ammonia IV. 2006 , 74,	29
1686 Megabar-pressure infrared study of hydrogen deuteride. 2006 , 97, 255701	9
1685 Lattice dynamics study of scheelite tungstates under high pressure I. BaWO4. 2006 , 74,	85
1684 Crystal structure of oligoacenes under high pressure. 2006 , 74,	52
1683 Electronic structure and magnetic properties of cubic and hexagonal SrMnO3. 2006 , 74,	130
Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. 2006 , 74,	56
Electronic properties of correlated metals in the vicinity of a charge-order transition: Optical spectroscopy of (BEDTITF)2MHg(SCN)4 (M=NH4, Rb, Tl). 2006 , 74,	41
1680 Complex monoclinic superstructure in Sr-IV. 2006 , 73,	19
1679 High-pressure structure of half-metallic CrO2. 2006 , 73,	38
1678 Possible pressure-induced insulator-to-metal transition in low-dimensional TiOCl. 2006 , 74,	35
Effect of pressure on the polarized infrared optical response of the quasi-one-dimensional conductor LaTiO3.41. 2006 , 74,	15
1676 An Overview of the High-Pressure Vibrational Spectra of Clays and Related Minerals. 2006 , 41, 449-471	15
1675 Structural transformation of compressed solid Ar: An x-ray diffraction study to 114GPa. 2006 , 73,	108
1674 High-pressure Raman scattering and structural phase transition in YCrO4. 2006 , 74,	25
Phase transition and electronic properties of fluorene: A joint experimental and theoretical high-pressure study. 2006 , 73,	24

1672 Calculation of	the equation of state of fcc Au from first principles. 2006 , 73,	23
1671 Effect of press	sure on the Raman modes of antimony. 2006 , 74,	64
1670 Vibrational sp	ectroscopy and x-ray diffraction of Cd(OH)2 to 28GPa at 300K. 2006 , 74,	14
	, high-temperature phase diagram of InSe: A comprehensive study of the electronic properties of the monoclinic phase of InSe under high pressure. 2006 , 73,	32
1668 The Diamond	Anvil Cell. 2006 ,	
1667 Toward an into	ernally consistent pressure scale. 2007 , 104, 9182-6	460
1666 Theory and Pr	actice 🗗 echniques for Measuring High P/T Elasticity. 2007 , 269-291	2
1665 Theory and Pr	actice Diamond-Anvil Cells and Probes for High PII Mineral Physics Studies. 2007 , 231-267	12
1664 Theory and Pr	actice [Measuring High-Pressure Electronic and Magnetic Properties. 2007, 293-337	1
1663 Raman spectro	oscopy study of Zn1ឱMnxSe thin films under high-pressure. 2007 , 101, 103535	2
1662 Pressure indu	ced structural phase transition in triglycine sulfate and triglycine selenate. 2007 , 127, 154712	7
1661 Theory and Pr	actice: Diamond-Anvil Cells and Probes for High-PII Mineral Physics Studies. 2007 , 263-291	3
1660 Pressure Calib	rants in the Hydrothermal Diamond-Anvil Cell. 2007 , 49, 289-300	6
1659 Oxygen isotop	oe effect in a high-temperature superconductor under high pressure. 2007 , 19, 425236	1
1658 Crystal structu	ure and stability of Na(2)ThF(6) at non-ambient conditions. 2007, 19, 266219	17
1657 High-Pressure	Phase Transition in CTAB-Micellar Solutions: A Raman Spectroscopic Study. 2007 , 24, 3085-308	7 ₅
1656 High-pressure	behaviour of Li2CaHfF8scheelite. 2007 , 19, 096215	1
	ew Interaction Potential on MD Simulation of MgSiO3 Perovskite Thermodynamic 07 , 20, 547-551	4

1654	ac susceptibility studies of the weak itinerant ferromagnet SrRuO3 under high pressure to 34GPa. 2007 , 76,	30
1653	Crystal structure of SiH4 at high pressure. 2007 , 76,	60
1652	Yield strength of molybdenum at high pressures. 2007 , 78, 073906	14
1651	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. 2007 , 76,	15
1650	Compressibility measurements and phonon spectra of hexagonal transition-metal nitrides at high pressure: TaN, MoN, and Cr2N. 2007, 75,	54
1649	High-pressure structural changes in the Gd2Zr2O7 pyrochlore. 2007 , 76,	54
1648	Phonon pressure coefficient as a probe of the strain status of self-assembled quantum dots. 2007 , 91, 081914	20
1647	Reverse roughening transition in carbon dioxide. 2007 , 99, 165701	7
1646	High-pressure behavior of a SiO2 clathrate observed by using various pressure media. 2007 , 75,	25
1645	Pressure dependence of the charge-density-wave gap in rare-earth tritellurides. 2007 , 98, 026401	48
1644	Raman scattering from turbostratic graphitelike BC4 under pressure. 2007 , 102, 063509	19
1643	Stress and failure at mechanical contacts of microspheres under uniaxial compression. 2007 , 101, 084908	3
1642	Electrodynamics near the metal-to-insulator transition in V3O5. 2007 , 75,	35
1641	Pressure-induced changes in the optical properties of quasi-one-dimensional Na0.33V2O5. 2007 , 76,	15
1640	The effect of static disorder on pressure-induced phase transitions and amorphization in Equartz-type solid solutions. 2007 , 80, 1039-1049	6
1639	High-pressure study of low-compressibility Ta2N. 2007 , 19, 425233	10
1638	Equation of state and structural studies of Na0.5CoO2under high pressure. 2007 , 19, 425238	1
1637	Single-crystal structure and electron-density analyses of Earth's interior under high-pressure and high-temperature conditions using synchrotron radiation. 2007 ,	1

1636 Contact fatigue in an alumina microcontact: A confocal laser scanning microscope study. 2007, 22, 3196-3200 1 Sound wave velocities of fcc FeNi alloy at high pressure and temperature by mean of inelastic 48 1635 X-ray scattering. 2007, 164, 83-89 Raman spectroscopy of perovskite and post-perovskite phases of MgGeO3 to 123 GPa. 2007, 260, 166-178 21 Placing constraints on phase equilibria and thermophysical properties in the system MgOBiO2 by a 1633 thermodynamically consistent vibrational method. 2007, 71, 3630-3655 1632 Pressure induced phase transformation of REH3. 2007, 446-447, 593-597 22 Pressure scales and hydrostaticity. 2007, 27, 465-472 23 Optical pressure sensors for high-pressure ligh-temperature studies in a diamond anvil cell. 2007, 1630 124 27, 447-463 High-pressure phase transformations in the system FeO-MgO. 2007, Ruby, metals, and MgO as alternative pressure scales: A semiempirical description of shock-wave, 1628 173 ultrasonic, x-ray, and thermochemical data at high temperatures and pressures. 2007, 75, 1627 Structural studies of gadolinium at high pressure and temperature. 2007, 75, 38 1626 Hydrogen storage in molecular clathrates. 2007, 107, 4133-51 332 FeO and MnO high-pressure phase diagrams: relations between structural and magnetic properties. 1625 15 **2007**, 80, 1151-1163 1624 Viscosity of water measured to pressures of 6 GPa and temperatures of 300 degrees C. 2007, 76, 051203 71 Phonon density of states of metallic Sn at high pressure. 2007, 98, 245502 20 Zinc phosphate chain length study under high hydrostatic pressure by Raman spectroscopy. 2007, 1622 23 101, 063505 1621 Constraining molecules at the closest approach: chemistry at high pressure. **2007**, 36, 869-80 107 1620 Pressurizing conditions in helium-pressure-transmitting medium. 2007, 27, 419-429 54 Pressure-induced splitting and buckling of Cu-O chains in the low-dimensional structure of SrCuO2. 1619 **2007**, 129, 13923-6

1618	High-pressure vibrational spectroscopy of energetic materials: hexahydro-1,3,5-trinitro-1,3,5-triazine. 2007 , 111, 59-63	103
1617	X-ray Diffraction Study on Charge and Orbital Order in Pr0.65Ca0.35MnO3under High Pressure. 2007 , 76, 124603	1
1616	High-pressure induced conformational and phase transformations of 1,2-dichloroethane probed by Raman spectroscopy. 2007 , 111, 7267-73	22
1615	Thermal equation of state of cubic boron nitride: Implications for a high-temperature pressure scale. 2007 , 75,	67
1614	Raman spectroscopic investigations of pressure-induced phase transitions in n-hexane. 2007 , 111, 14130-5	21
1613	The effects of high temperature on the high-pressure behavior of CeO2. 2007 , 19, 425213	10
1612	Crystal structure and the Mott-Hubbard gap in YTiO(3) at high pressure. 2007 , 19, 406223	15
1611	Equation of state of cubic boron nitride at high pressures and temperatures. 2007, 75,	72
1610	High-pressure structural behaviour of nanocrystalline Ge. 2007 , 19, 156217	14
1609	Structural phase transition in CaH2 at high pressures. 2007 , 75,	39
1608	Equations of state of MgO, Au, Pt, NaCl-B1, and NaCl-B2: Internally consistent high-temperature pressure scales. 2007 , 27, 431-446	178
1607	Cubic boron nitride as a primary calibrant for a high temperature pressure scale. 2007 , 27, 409-417	16
1606	DETERMINATION OF PRESSURE-DEPENDENT PHASE DIAGRAMS. 2007 , 412-441	
	· ·	
1605	Raman spectroscopy study of REH3 under pressure. 2007 , 142, 337-341	13
1605 1604	Raman spectroscopy study of REH3 under pressure. 2007 , 142, 337-341	13
	Raman spectroscopy study of REH3 under pressure. 2007 , 142, 337-341 Single-crystal to single-crystal phase transition with a large deformation in Zn(OH)2 under	
1604	Raman spectroscopy study of REH3 under pressure. 2007 , 142, 337-341 Single-crystal to single-crystal phase transition with a large deformation in Zn(OH)2 under high-pressure. 2007 , 437, 61-65 Structural distortions and phase transformations in Sm2Zr2O7 pyrochlore at high pressures. 2007 ,	10

(2007-2007)

1600	synchrotron powder diffraction study. 2007 , 105, 239-250	23
1599	Compressibilities of disordered fluoride pyrochlores NaCdZn2F7 and NaCaMg2F7. 2007 , 180, 1998-2003	3
1598	Dependence of the band-gap pressure coefficients of self-assembled InAs/GaAs quantum dots on the quantum dot size. 2007 , 244, 53-58	10
1597	Structural and optical high-pressure study of spinel-type MnIn2S4. 2007 , 244, 229-233	12
1596	Photoluminescence of CdSe quantum dots with Zn0.38Cd0.23Mg0.39Se barriers under hydrostatic pressure. 2007 , 244, 397-401	2
1595	Raman scattering of capped and uncapped carbon-induced Ge dots under hydrostatic pressure. 2007 , 244, 76-81	5
1594	Effect of pressure on the structural properties and electronic band structure of GaSe. 2007 , 244, 244-255	28
1593	GaS and InSe equations of state from single crystal diffraction. 2007 , 244, 169-173	7
1592	High-pressure X-ray diffraction study of ternary and non-stoichiometric PbTe and PbSe crystals. 2007 , 244, 279-284	21
1591	Calibration of the ruby pressure scale to 150 GPa. 2007 , 244, 460-467	24
1590	Infrared spectroscopy on the rotorBtator compounds C60\(\mathbb{L}\)8H8 and C70\(\mathbb{L}\)8H8 under pressure. 2007 , 244, 3857-3860	4
1589	Pressure-induced phenomena in single-walled carbon nanotubes. 2007 , 244, 3982-3985	5
1588	Evidence for a High-Pressure Phase Transition of 段,4,6,8,10,12-Hexanitrohexaazaisowurtzitane (CL-20) Using Vibrational Spectroscopy. 2007 , 32, 472-477	29
1587	Six-fold-coordinated phosphorus by oxygen in AlPO4 quartz homeotype under high pressure. 2007 , 6, 698-702	61
1586	Elastic constants and high-pressure structural transitions in lanthanum monochalcogenides from experiment and theory. 2007 , 75,	54
1585	Electron density distribution of FeTiO3 ilmenite under high pressure analyzed by MEM using single crystal diffraction intensities. 2007 , 34, 307-318	36
1584	Effect of non-hydrostatic conditions on the elastic behaviour of magnetite: an in situ single-crystal X-ray diffraction study. 2007 , 34, 627-635	39
1583	Lattice preferred orientation in CaIrO3 perovskite and post-perovskite formed by plastic deformation under pressure. 2007 , 34, 679-686	39

1582 Optical study on metallhsulator change in PrFe4P12 under high pressure. 2007 , 310, 221-222	. 1
1581 Structural change of layered perovskite La2Ti2O7 at high pressures. 2007 , 180, 571-576	34
1580 Structural changes of NaxCoO2 (x=0.74) at high pressures. 2007 , 180, 1759-1763	8
1579 High-pressure structural evolution of a perovskite solid solution (La1⊠,Ndx)GaO3. 2007 , 180,	3408-3424 25
1578 Na2TiGeO5: Crystal structure stability at low temperature and high pressure. 2008 , 69, 815-8	321 4
1577 Pressure-induced phase transformations in l-alanine crystals. 2008 , 69, 1641-1645	27
1576 Stiffening of nanoscale anatase Ti0.9Zr0.1O2 upon multiple compression cycles. 2008 , 69, 22	30-2233 5
1575 Pressure induced phase transformation in U2O(PO4)2. 2008 , 181, 1240-1248	4
High-pressure modifications of CaZn2, SrZn2, SrAl2, and BaAl2: Implications for Laves phase structural trends. 2008 , 181, 3016-3023	18
Doom tomposature equation of state of Liavosio4 up to 9.5 CDs 2009 35, 71.76	
1573 Room-temperature equation of state of Li2VOSiO4 up to 8.5 GPa. 2008 , 35, 71-76	
1573 Room-temperature equation of state of £12VOSiO4 up to 8.5 GPa. 2008 , 35, 71-76 1572 Raman study of radiation-damaged zircon under hydrostatic compression. 2008 , 35, 597-602	19
	19 29
Raman study of radiation-damaged zircon under hydrostatic compression. 2008 , 35, 597-602 The Low-Temperature High-Pressure Phase Diagram of Energetic Materials: I.	29
Raman study of radiation-damaged zircon under hydrostatic compression. 2008 , 35, 597-602 The Low-Temperature High-Pressure Phase Diagram of Energetic Materials: I. Hexahydro-1,3,5-Trinitro-s-Triazine. 2008 , 33, 390-395 Infrared microreflectance study of the pressure effect on the structural properties of magne	29 etically
1572 Raman study of radiation-damaged zircon under hydrostatic compression. 2008 , 35, 597-602 The Low-Temperature High-Pressure Phase Diagram of Energetic Materials: I. Hexahydro-1,3,5-Trinitro-s-Triazine. 2008 , 33, 390-395 Infrared microreflectance study of the pressure effect on the structural properties of magne aligned single-wall carbon nanotubes. 2008 , 245, 2288-2291	etically 2
Raman study of radiation-damaged zircon under hydrostatic compression. 2008, 35, 597-602 The Low-Temperature High-Pressure Phase Diagram of Energetic Materials: I. Hexahydro-1,3,5-Trinitro-s-Triazine. 2008, 33, 390-395 Infrared microreflectance study of the pressure effect on the structural properties of magne aligned single-wall carbon nanotubes. 2008, 245, 2288-2291 Infrared spectroscopy on the fullerene C70 under pressure. 2008, 245, 2006-2009 High-pressure X-ray diffraction study of SrMoO4 and pressure-induced structural changes. 2008, 245, 2006-2009	etically 2
1572 Raman study of radiation-damaged zircon under hydrostatic compression. 2008, 35, 597-602 1571 The Low-Temperature High-Pressure Phase Diagram of Energetic Materials: I. Hexahydro-1,3,5-Trinitro-s-Triazine. 2008, 33, 390-395 1570 Infrared microreflectance study of the pressure effect on the structural properties of magne aligned single-wall carbon nanotubes. 2008, 245, 2288-2291 1569 Infrared spectroscopy on the fullerene C70 under pressure. 2008, 245, 2006-2009 High-pressure X-ray diffraction study of SrMoO4 and pressure-induced structural changes. 2018, 355-364	29 Petically 2 3 008, 80

(2008-2008)

1564 Radiation-induced decomposition of explosives under	extreme conditions. 2008 , 69, 2208-2212	5
1563 High-pressure X-ray diffraction study of tungsten dise	lenide. 2008 , 69, 2311-2314	15
Axial ratio anomalies and electronic topological transi , 69, 2325-2331	tions in Cd0.80Hg0.20 at high pressures. 2008	4
Interpenetrated structure and compressibility studies crystals at 0.3 and 1.1GPa. 2008 , 129, 173-177	in pressure frozen pentafluoropyridine	14
High-pressure freezing, crystal structure studies and S trimethyl(trifluoromethyl)silane. 2008 , 129, 1090-1099		11
1559 High-pressure Raman study on the decomposition of c	rystalline Cr(CO)6. 2008 , 454, 242-246	4
1558 Effect of pressure on the crystal structure of ettringito	e. 2008 , 38, 19-26	35
Phase transformation in Sm2O3 at high pressure: In silinitio DFT calculation. 2008 , 145, 250-254	cu synchrotron X-ray diffraction study and ab	49
High pressure deformation mechanism of Li-ABW: Syndynamics simulations. 2008 , 115, 267-280	chrotron XRPD study and ab initio molecular	29
Pressure-induced structural evolution and elastic behavior of cancrinite: A synchrotron powder diffraction study.		8
1554 High-pressure studies of NaCo(H2PO3)3[H2O phosphi	te by Raman spectroscopy. 2008 , 876, 250-254	6
1553 High-pressure study of the Sr2CoWO6 ordered double	perovskite tungstate oxide. 2008 , 888, 244-252	28
1552 High pressure Raman study of La1-xCaxMnO3-Emanga	nites. 2008 , 66, 301-305	6
$_{1551}$ Radiation-induced decomposition of PETN and TATB $\scriptstyle m L$	inder extreme conditions. 2008 , 112, 3352-9	27
The high pressure crystal structures of tin sulphate: a from 2D powder diffraction data. 2008 , 223, 195-203	case study for maximal information recovery	6
Electronlattice interaction under high-pressure examinates single-crystal diffraction (View all notes. 2008 , 28, 203-		1
1548 Cubic to tetragonal phase transformation in cold-com	pressed Pd nanocubes. 2008 , 8, 972-5	77
1547 Ruby under pressure. 2008 , 28, 75-126		311

1546	High pressureBigh temperature equations of state of neon and diamond. 2008, 77,	150
1545	High-pressure behavior of As2O3: Amorphous-amorphous and crystalline-amorphous transitions. 2008 , 77,	36
1544	A crystalline-to-crystalline phase transition in Ca(OH)2 at 8 GPa and room temperature. 2008, 35,	14
1543	Pressure-volume-temperature relations in MgO: An ultrahigh pressure-temperature scale for planetary sciences applications. <i>Journal of Geophysical Research</i> , 2008 , 113,	75
1542	Orientational Ordering and Intermolecular Interactions in the Rotor-Stator Compounds C60[C8H8 and C70[C8H8 Studied under Pressure. 2008 , 112, 17525-17532	11
1541	Structural stability of Fe5Si3 and Ni2Si studied by high-pressure x-ray diffraction and ab initio total-energy calculations. 2008 , 77,	46
1540	Uncovering a pressure-tuned electronic transition in Bi(1.98)Sr(2.06)Y(0.68)Cu(2)O(8+delta) using Raman scattering and x-ray diffraction. 2008 , 100, 217003	16
1539	Effects of high pressure on the luminescence spectra of Eu(SO4)2.NH4 microcrystals: anisotropically induced structural distortions. 2008 , 112, 1464-72	16
1538	Growth, characterization, and high-pressure optical studies of CuWO4. 2008, 28, 565-570	56
1537	Compression curves of transition metals in the Mbar range: Experiments and projector augmented-wave calculations. 2008 , 78,	297
1537 1536		²⁹⁷
	augmented-wave calculations. 2008, 78, High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite	
1536	augmented-wave calculations. 2008, 78, High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. 2008, 104, 063524 High-pressure studies of (Mg0.9Fe0.1)2SiO4 olivine using raman spectroscopy, X-ray diffraction,	48
1536 1535	augmented-wave calculations. 2008, 78, High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. 2008, 104, 063524 High-pressure studies of (Mg0.9Fe0.1)2SiO4 olivine using raman spectroscopy, X-ray diffraction, and mBsbauer spectroscopy. 2008, 47, 2668-73 Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa.	48
1536 1535 1534	Augmented-wave calculations. 2008, 78, High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. 2008, 104, 063524 High-pressure studies of (Mg0.9Fe0.1)2SiO4 olivine using raman spectroscopy, X-ray diffraction, and mBsbauer spectroscopy. 2008, 47, 2668-73 Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa. 2008, 121, 022018	48 21 66
1536 1535 1534 1533	Augmented-wave calculations. 2008, 78, High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. 2008, 104, 063524 High-pressure studies of (Mg0.9Fe0.1)2SiO4 olivine using raman spectroscopy, X-ray diffraction, and mbsbauer spectroscopy. 2008, 47, 2668-73 Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa. 2008, 121, 022018 High pressure structural and elastic properties of NiO up to 67 GPa. 2008, 104, 113521	48 21 66 5
1536 1535 1534 1533 1532	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. 2008, 104, 063524 High-pressure studies of (Mg0.9Fe0.1)2SiO4 olivine using raman spectroscopy, X-ray diffraction, and mBsbauer spectroscopy. 2008, 47, 2668-73 Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa. 2008, 121, 022018 High pressure structural and elastic properties of NiO up to 67 GPa. 2008, 104, 113521 Viscosity of nitrogen measured to pressures of 7 GPa and temperatures of 573 K. 2008, 77, 041202	48 21 66 5 43

(2008-2008)

1528	Sound velocities and elasticity of DHMS phase A to high pressure and implications for seismic velocities and anisotropy in subducted slabs. 2008 , 170, 229-239	19
1527	Anomalous high-pressure behavior of amorphous selenium from synchrotron x-ray diffraction and microtomography. 2008 , 105, 13229-34	47
1526	High-pressure x-ray diffraction and Raman spectra study of indium oxide. 2008 , 104, 083506	80
1525	FeSi melting curve up to 70´GPa. 2008 , 265, 743-747	24
1524	Element partitioning between magnesium silicate perovskite and ferropericlase: New insights into bulk lower-mantle geochemistry. 2008 , 269, 164-174	107
1523	Irradiation-induced stabilization of zircon (ZrSiO4) at high pressure. 2008 , 269, 291-295	38
1522	Fission tracks simulated by swift heavy ions at crustal pressures and temperatures. 2008, 274, 355-358	34
1521	Single-crystal elasticity of iron-bearing majorite to 26 GPa: Implications for seismic velocity structure of the mantle transition zone. 2008 , 274, 339-345	17
1520	High-pressure polymorphism of Fe2P and its implications for meteorites and Earth's core. 2008 , 35,	48
1519	P-V-T equation of state of platinum to 80GPa and 1900K from internal resistive heating/x-ray diffraction measurements. 2008 , 103, 054908	54
1518	High-pressure Raman scattering study on zircon- to scheelite-type structural phase transitions of RCrO4. 2008 , 103, 093542	18
1517	Amorphization of faujasite at high pressure: an X-ray diffraction and Raman spectroscopy study. 2008 , 18, 5746	33
1516	Nanodomain fragmentation and local rearrangements in CdSe under pressure. 2008, 105, 19612-6	24
1515	High-pressure structural and vibrational study of PbZr0.40Ti0.60O3. 2008, 47, 9898-904	18
1514	Phase diagram studies on iron and nickel silicides: high-pressure experiments andab initiocalculations. 2008 , 121, 022013	1
1513	The chemistry of cyanuric acid (H3C3N3O3) under high pressure and high temperature. 2008 , 112, 2644-8	11
1512	Magnetic Properties and Pressure-Induced Ferromagnetism of Cu2(OH)3(CH3COO)[H2O. 2008 , 112, 19147-19150	14
1511	Size Dependence of Cubic to Trigonal Structural Distortion in Silver Micro- and Nanocrystals under High Pressure. 2008 , 112, 20135-20137	23

1510	Supramolecular reaction between pressure-frozen acetonitrile phases alpha and beta. 2008 , 112, 7183-90	46
1509	Struture stability and compressibility of iron-based superconductor Nd(O0.88F0.12)FeAs under high pressure. 2008 , 130, 13828-9	53
1508	Pressure-induced structural transformation in solid xenon studied by Raman spectroscopy. 2008 , 77,	6
1507	Structural Phase Transitions in the Potential Hydrogen Storage Compound KBH4 under Compression. 2008 , 112, 8452-8457	30
1506	Equations of State and High-Pressure Phases of Explosives. 2009 , 99-126	3
1505	Speeds of Sound in Fluid Ammonia to 3.8 GPa and 680 K. 2008 , 53, 1986-1987	4
1504	Coupling of multi-LO phonons to crystal-field excitations in UO2studied by Raman spectroscopy. 2008 , 20, 085202	25
1503	Monoclinic FeO at high pressures. 2008 , 223, 461-464	7
1502	High pressure-high temperature phase diagram of ammonia. 2008 , 128, 154508	34
1501	Conformational and phase transformations of chlorocyclohexane at high pressures by Raman spectroscopy. 2008 , 128, 074501	17
1500	Pressure-induced metallization of silane. 2008 , 105, 20-3	145
1499	Novel rhenium gasket design for nuclear resonant inelastic x-ray scattering at high pressure. 2008 , 79, 023903	1
1498	New boron subnitride B13N2: HP-HT synthesis, structure and equation of state. 2008 , 121, 062001	22
1497	Raman spectroscopy study of ammonia borane at high pressure. 2008 , 129, 234509	64
1496	The effect of pressure on the crystal structure of NaV6O11. 2008 , 20, 285208	2
1495	Sound velocity and absorption measurements under high pressure using picosecond ultrasonics in a diamond anvil cell: application to the stability study of AlPdMn. 2008 , 100, 035502	49
1494	In situ study of amorphization and changes in coordination in Si2N2O at high pressure. 2008, 77,	12
1493	Pressure-induced phase transition in Ho0.8Dy0.2MnO3 multiferroic compound. 2008 , 103, 026102	9

(2008-2008)

1492	Anomalous pressure evolution of the axial ratio clin hcp cobalt: Interplay between structure, magnetism, and lattice dynamics. 2008 , 92, 111911	25
1491	Pressure dependence of the optical properties of the charge-density-wave compound LaTe2. 2008 , 77,	12
1490	Raman shift of stressed diamond anvils: Pressure calibration and culet geometry dependence. 2008 , 104, 034504	25
1489	Compression behavior of WC and WC-6%Co up to 50 GPa determined by synchrotron x-ray diffraction and ultrasonic techniques. 2008 , 103, 113522	21
1488	Iron-carbon interactions at high temperatures and pressures. 2008, 92, 121912	30
1487	Synchrotron infrared spectroscopy of the pressure-induced insulator-metal transitions in glassy As2S3 and As2Se3. 2008 , 77,	24
1486	Evidence for coupling between charge density waves and phonons in two-dimensional rare-earth tritellurides. 2008 , 78,	37
1485	Electronic phase transition and amorphization in AuIn2 at high pressure. 2008, 78,	9
1484	High pressure phase transitions and compressibilities of Er2Zr2O7 and Ho2Zr2O7. 2008, 92, 011909	26
1483	Pressure-induced valence change in YbAl3: A combined high-pressure inelastic x-ray scattering and theoretical investigation. 2008 , 78,	24
1482	Effect of pressure on the electrical transport and structure of TiOCl. 2008, 77,	15
1481	Structural phase transitions of cubic Gd2O3 at high pressures. 2008 , 78,	86
1480	High-pressure structural behavior of large-void CoSn-type intermetallics: Experiments and first-principles calculations. 2008 , 77,	11
1479	Hugoniot data for helium in the ionization regime. 2008 , 100, 124503	89
1478	Evidence for a high-density amorphous form in indomethacin from Raman scattering investigations. 2008 , 77,	33
1477	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. 2008 , 78,	19
1476	Isothermal equation of state for gold with a He-pressure medium. 2008, 78,	130
1475	High-pressure electronic structure and phase transitions in monoclinic InSe: X-ray diffraction, Raman spectroscopy, and density functional theory. 2008 , 77,	31

1474	Studies on silane to 70 GPa. 2008 , 121, 042019	4
1473	In-situRaman study of the pressure-induced bulk melting of hexagonal ice. 2008 , 121, 042004	1
1472	⊞oron at very high pressure: structural and vibrational properties. 2008 , 121, 042017	20
1471	Pressure Effect on Pr-based Skutterudite Compounds. 2008 , 77, 214-215	1
1470	Solubility of Noble Gas in SiO2 Melt under High Pressure. 2008 , 18, 44-54	
1469	Structural phase transitions of sodium nitride at high pressure. 2009 , 79,	25
1468	High-pressure phase transformations, pressure-induced amorphization, and polyamorphic transition of the clathrate Rb6.15Si46. 2009 , 79,	32
1467	Pressure-induced complexation of NH(3)BH(3)-H(2). 2009 , 131, 224515	34
1466	Pressure dependence of the single particle excitation in the charge-density-wave CeTe3 system. 2009 , 79,	12
1465	Phase diagrams and isotopic effects of normal and deuterated water studied via x-ray diffraction up to 4.5 GPa and 500 K. 2009 , 80,	46
1464	An internally heated composite gasket for diamond-anvil cells using the pressure-chamber wall as the heating element. 2009 , 29, 290-305	10
1463	Experimental and theoretical investigation of ThGeO4 at high pressure. 2009 , 80,	35
1462	Viscosity of carbon dioxide measured to a pressure of 8 GPa and temperature of 673 K. 2009 , 80, 021201	41
1461	High-pressure magnetic study of Fe-Ni and Fe-Pt Invar alloys. 2009 , 80,	25
1460	High-pressure phase transitions in BiMO3 (M=Al, Ga, and In): In situ x-ray diffraction and Raman scattering experiments. 2009 , 80,	31
1459	Inelastic x-ray scattering from high pressure fluids in a diamond anvil cell. 2009 , 94, 074102	14
1458	Thermal decomposition of ammonia borane at high pressures. 2009 , 131, 104506	52
1457	Observation of the oP8 crystal structure in potassium at high pressure. 2009 , 80,	36

(2009-2009)

1456	Tetrahedrally bonded dense C2N3H with a defective wurtzite structure: X-ray diffraction and Raman scattering results at high pressure and ambient conditions. 2009 , 80,	35
1455	Pressure-induced quenching of the charge-density-wave state in rare-earth tritellurides observed by x-ray diffraction. 2009 , 79,	25
1454	Phase transitions in praseodymium up to 23 GPa: An x-ray powder diffraction study. 2009 , 80,	12
1453	Electron density distribution and static dipole moment of KNbO3 at high pressure. 2009, 80,	21
1452	High-pressure induced phase transitions of Y2O3 and Y2O3:Eu3+. 2009 , 94, 061921	69
1451	Filling of the MottHubbard gap in the oxyhalides TiOCl and TiOBr induced by external pressure. 2009 , 29, 509-513	2
1450	The Phase Transition of Eu 2 O 3 under High Pressures. 2009 , 26, 076101	22
1449	High-pressure structural behavior of the double perovskite Sr2CrReO6: an experimental and theoretical study. 2009 , 29, 83-86	6
1448	In situ high-pressure study of diborane by infrared spectroscopy. 2009 , 131, 174506	19
1447	High pressure chemistry in the H2-SiH4 system. 2009 , 106, 14763-7	63
1446	Pressure-dependent phase transition in the ordered BaBi0.7Nb0.3O3 perovskite. 2009 , 29, 272-277	2
1445	The effect of temperature on the hydrostatic limit of 4:1 methanol@thanol under pressure. 2009 , 29, 649-652	29
1444	Non-hydrostatic compression of zeolite NaA in water medium: connection to anomalous conductivity. 2009 , 224,	9
1443	Instability of CaLi 2 at high pressure: Theoretical prediction and experimental results. 2009 , 86, 56001	11
1442	X-ray diffraction of electrodeposited nanocrystalline nickel under high pressure. 2009 , 105, 084311	5
1441	The crystal structures of ﷺ nitrogen. 2009 , 131, 104511	36
1440	Bonding in boranes and their interaction with molecular hydrogen at extreme conditions. 2009 , 131, 144508	16
1439	X-ray diffraction study of aluminum carbide powder to 50 GPa. 2009 , 106, 083511	5

1438	Pressure-induced phase transformations in cubic Gd2O3. 2009 , 106, 073507	31
1437	High-pressure Brillouin study of the elastic properties of rare-gas solid xenon at pressures up to 45 GPa. 2009 , 40, 121-127	21
1436	X-ray diffraction study of pure plutonium under pressure. 2009 , 385, 38-41	11
1435	Observation of chemical reactions between alkaline-earth oxides and tungsten at high pressure and high temperature. 2009 , 70, 1117-1120	7
1434	High-Pressure Raman Study on the Decomposition of Polycrystalline Molybdenum Hexacarbonyl. 2009 , 19, 415-421	6
1433	Elastic behavior of vanadinite, Pb10(VO4)6Cl2, a microporous non-zeolitic mineral. 2009 , 36, 311-317	11
1432	Phase relations of ironBilicon alloys at high pressure and high temperature. 2009 , 36, 511-518	36
1431	Polarized Raman study of self-assembled Ge/Si dots under hydrostatic pressure. 2009 , 246, 482-485	1
1430	Measurement of phonon pressure coefficients for a precise determination of deformation potentials in SiGe alloys. 2009 , 246, 548-552	6
1429	Direct observation of a pressure-induced metal-to-semiconductor transition in lithium. 2009 , 458, 186-9	190
1428	Nanoscale manipulation of the properties of solids at high pressure with relativistic heavy ions. 2009 , 8, 793-7	77
1427	Crack Propagation in a Ruby Single Crystal by Femtosecond Laser Irradiation. 2009 , 92, 3118-3121	7
1426	Structural phase transition in induced by swift heavy ion irradiation at high-pressure. 2009 , 267, 964-968	37
1426 1425	Structural phase transition in induced by swift heavy ion irradiation at high-pressure. 2009 , 267, 964-968 High pressure induced phase transition in sulfur doped indium phosphide: An angular-dispersive X-ray diffraction and Raman study. 2009 , 149, 136-141	37 13
•	High pressure induced phase transition in sulfur doped indium phosphide: An angular-dispersive X-ray diffraction and Raman study. 2009 , 149, 136-141	
1425	High pressure induced phase transition in sulfur doped indium phosphide: An angular-dispersive X-ray diffraction and Raman study. 2009 , 149, 136-141	13
1425 1424	High pressure induced phase transition in sulfur doped indium phosphide: An angular-dispersive X-ray diffraction and Raman study. 2009 , 149, 136-141 In situ X-ray observation of phase transitions in Mg2Si under high pressure. 2009 , 149, 689-692	13 50

(2009-2009)

1420 Pressure-induced transformations in crystalline and vitreous. **2009**, 149, 1940-1943

1419 High-pressure Raman study on the series. 2009 , 149, 2050-2052	26
1418 300-K equation of state of rhombohedral boron subnitride, B13N2. 2009 , 149, 2169-2171	29
Techniques, applications and future prospects of diamond anvil cells for studying supercritical water systems. 2009 , 47, 431-446	49
1416 Molecular association in 2-bromo-2-chloro-1,1,1-trifluoroethane (Halothane). 2009 , 130, 248-253	16
Crystal structure and compressibility of a high-pressure Ti-rich oxide, (Ti0.50Zr0.26Mg0.14Cr0.10)O1.81, isomorphous with cubic zirconia. 2009 , 70, 1297-1301	1
1414 High-pressure structural behavior and equation of state of NaZnF3. 2009 , 182, 1545-1549	23
1413 Twinned crystal structure and compressibility of TlTeVO5. 2009 , 182, 1570-1574	8
1412 Disordered pyrochlore CsMgInF6 at high pressures. 2009 , 182, 1792-1797	10
1411 High pressure induced coordination evolution in chain compound Li2CuO2. 2009 , 182, 3085-3090	5
X-ray diffraction study of the evolution of Fe-filled multiwalled carbon nanotubes under pressure. 2009 , 72, 145-151	3
Possible metallization of the Mott insulators TiOCl and TiOBr: Effects of doping and external pressure. 2009 , 180, 29-42	3
1408 Structural Properties of Multiferroic BiFeO3 under Hydrostatic Pressure. 2009 , 21, 3400-3405	60
1407 High-pressure structural investigation of several zircon-type orthovanadates. 2009 , 79,	79
1406 Size-Dependent Structural Stability and Tuning Mechanism: A Case of Zinc Sulfide. 2009 , 113, 4286-4295	32
1405 Peculiar high-pressure behavior of BiMnO3. 2009 , 48, 1000-4	43
1404 Structural Phase Transitions of Mg(BH4)2 under Pressure. 2009 , 113, 486-492	38
High-Pressure Raman Spectroscopy of Molecular Monolayers Adsorbed on a Metal Surface. 2009 , 113, 5751-5757	17

1402	Pressure-induced transformations in diborane: a Raman spectroscopic study. 2009 , 113, 13509-15	22
1401	Iron oxidation state of FeTiO3 under high pressure. 2009 , 79,	26
1400	Pressure-induced structural transitions in $M(O)O(3).xH(2)O(x = 1/2, 2)$ molybdenum trioxide hydrates: a Raman study. 2009 , 113, 16479-82	9
1399	Compression and probing C-HI hydrogen bonds of iodoform under high pressure by X-ray diffraction and Raman scattering. 2009 , 113, 7430-4	12
1398	Stability of hydrogen-bonded supramolecular architecture under high pressure conditions: pressure-induced amorphization in melamine-boric acid adduct. 2009 , 25, 4787-91	46
1397	Hydrostatic limits of 11 pressure transmitting media. 2009 , 42, 075413	782
1396	Structural phase transformations of Mg(3)N(2) at high pressure: experimental and theoretical studies. 2009 , 48, 9737-41	16
1395	Melting in the Fe [] system to 70´GPa. 2009 , 284, 157-167	190
1394	Compositional dependence of structural transition pressures in amorphous phases with mantle-related compositions. 2009 , 283, 174-180	28
1393	Pressure-induced structural phase transition in the Bechgaard-Fabre salts. 2009 , 159, 2097-2100	7
1393	Thermal equation of state of CaFe2O4-type MgAl2O4. 2009 , 174, 78-85	12
1392	Thermal equation of state of CaFe2O4-type MgAl2O4. 2009 , 174, 78-85 Stability of the perovskite structure and possibility of the transition to the post-perovskite	12
1392 1391	Thermal equation of state of CaFe2O4-type MgAl2O4. 2009 , 174, 78-85 Stability of the perovskite structure and possibility of the transition to the post-perovskite structure in CaSiO3, FeSiO3, MnSiO3 and CoSiO3. 2009 , 177, 147-151 High-pressure structures and vibrational spectra of barium fluoride: Results obtained under nearly	12
1392 1391 1390	Thermal equation of state of CaFe2O4-type MgAl2O4. 2009, 174, 78-85 Stability of the perovskite structure and possibility of the transition to the post-perovskite structure in CaSiO3, FeSiO3, MnSiO3 and CoSiO3. 2009, 177, 147-151 High-pressure structures and vibrational spectra of barium fluoride: Results obtained under nearly hydrostatic conditions. 2009, 79, Inclusion Properties, Polymorphism and Desolvation Kinetics in a New 2-Pyridyl Iminophenol Compound with 1D Nanochannels. 2009, 9, 3749-3758	12 27 12
1392 1391 1390 1389	Thermal equation of state of CaFe2O4-type MgAl2O4. 2009, 174, 78-85 Stability of the perovskite structure and possibility of the transition to the post-perovskite structure in CaSiO3, FeSiO3, MnSiO3 and CoSiO3. 2009, 177, 147-151 High-pressure structures and vibrational spectra of barium fluoride: Results obtained under nearly hydrostatic conditions. 2009, 79, Inclusion Properties, Polymorphism and Desolvation Kinetics in a New 2-Pyridyl Iminophenol Compound with 1D Nanochannels. 2009, 9, 3749-3758	12 27 12
1392 1391 1390 1389 1388	Thermal equation of state of CaFe2O4-type MgAl2O4. 2009, 174, 78-85 Stability of the perovskite structure and possibility of the transition to the post-perovskite structure in CaSiO3, FeSiO3, MnSiO3 and CoSiO3. 2009, 177, 147-151 High-pressure structures and vibrational spectra of barium fluoride: Results obtained under nearly hydrostatic conditions. 2009, 79, Inclusion Properties, Polymorphism and Desolvation Kinetics in a New 2-Pyridyl Iminophenol Compound with 1D Nanochannels. 2009, 9, 3749-3758 Pressure-induced disorder in Rb(2)ZnCl(4). 2009, 21, 405405	12 27 12 13

(2009-2009)

1384	sesquioxides. 2009 , 29, 379-388	29
1383	High-pressure Raman and x-ray diffraction studies on LaB6. 2009 , 80,	16
1382	High-pressure phase transitions of ScPO4 and YPO4. 2009 , 80,	44
1381	Physical and chemical transformations of sodium cyanide at high pressures. 2009 , 131, 144507	17
1380	High-pressure Raman scattering and x-ray diffraction of phase transitions in MoO3. 2009 , 105, 023513	55
1379	Infrared studies of magnetite under high pressure. 2009 , 29, 500-503	6
1378	Weak intermolecular interactions and molecular aggregation in isostructural dihaloperfluoroethanes,. 2009 , 11, 1073	19
1377	Pressure-induced phase transition in hydrogen-bonded supramolecular adduct formed by cyanuric acid and melamine. 2009 , 113, 14719-24	49
1376	Unusual compression behavior of anatase TiO2 nanocrystals. 2009 , 103, 075505	57
1375	On the compressibility of ferrite spinels: a high-pressure X-ray diffraction study of MFe2O4 (M=Mg, Co, Zn). 2009 , 29, 764-779	17
1374	High-pressure structural transitions of Sc2O3 by X-ray diffraction, Raman spectra, and ab initio calculations. 2009 , 48, 8251-6	40
1373	Ultrahigh-pressure scales for gold and platinum at pressures up to 550 GPa. 2009 , 80,	82
1372	The temperature-pressure-volume equation of state of platinum. 2009 , 105, 013505	46
1371	X-ray diffraction measurements of Mo melting to 119 GPa and the high pressure phase diagram. 2009 , 130, 124509	68
1370	Post-spinel transformations and equation of state in ZnGa2O4: Determination at high pressure by in situ x-ray diffraction. 2009 , 79,	64
1369	Short-range order and Fe clustering in Mg1⊠FexO under high pressure. 2009 , 80,	35
1368	Structural study of FeP2 at high pressure. 2009 , 29, 235-244	14
1367	Infrared studies under pressure at the infrared beamline SISSI at ELETTRA. 2009 , 29, 639-643	2

1366	Compression of a crystalline ZnO nanotube: An experimental exploration of the B4 to B1 transition mechanism. 2009 , 105, 104317	13
1365	X-ray diffraction of MgxZn1⊠O and ZnO nanocrystals under high pressure. 2009 , 106, 013511	15
1364	The bulk modulus of cubic spinel selenides: an experimental and theoretical study. 2009 , 29, 72-75	6
1363	Raman Investigation of BaWO 4 -II Phase under Hydrostatic Pressures up to 14.8 GPa. 2009 , 26, 046301	4
1362	Halogen?oxygen aggregation and disorder modes in pressure frozen XCF2CF2X : 1,4-dioxane (X = Br,I) complexes. 2009 , 11, 1240	15
1361	A Brief Overview of the Effect of High Pressures on the Vibrational Spectra of Biomaterials. 2009 , 44, 552-567	8
1360	Low-temperature neutron single-crystal diffraction studies of samples grown at high pressure. 2009 , 29, 644-648	11
1359	High-pressure crystallography of rhombohedral PrAlO(3) perovskite. 2009 , 21, 235403	12
1358	High-pressure XRD study of ₽Na0.33V2O5. 2009 , 29, 504-508	6
1357	Structural phase transitions in RbBH4 under compression. 2009 , 476, 5-8	14
1356	Unified analyses for P-V-T equation of state of MgO: A solution for pressure-scale problems in high P-T experiments. <i>Journal of Geophysical Research</i> , 2009 , 114,	126
1355	Structure and behavior of the barringerite Ni end-member, Ni2P, at deep Earth conditions and implications for natural Fe-Ni phosphides in planetary cores. <i>Journal of Geophysical Research</i> , 2009 , 114,	14
1354	Nanocrystalline tungsten carbide: As incompressible as diamond. 2009 , 95, 211906	38
1353	H-Bond Breaking in High-Pressure Urea. 2009 , 113, 15761-15767	62
1352	In situ high-pressure study of ammonia borane by Raman and IR spectroscopy. 2009 , 87, 1235-1247	52
1351	A high pressure x-ray diffraction study of titanium disulfide. 2009 , 21, 025403	13
1350	Pathways to metallic hydrogen. 2009 , 35, 318-325	7
1349	Observation of charge ordering state in LiV2O4investigated by optical study. 2009 , 150, 042070	1

1348 Raman study of carbon nano-structured materials pressurized with H2. **2010**, 215, 012046

1347 The equation of state of B2-type NaCl. 2010 , 2	15, 012196	12
1346 Effect of pressure on the coordination structur	re of acetate-rare earth complex in water. 2010 , 215, 012072	1
1345 Powder x-ray diffraction study of Ne up to 240	GPa. 2010 , 215, 012017	10
1344 Modulated structure of ⊕rass CuZn compresse	ed to 90 GPa. 2010 , 226, 012018	
1343 Compressibility of cubic vanadium mononitride	e. 2010 , 92, 66001	12
1342 Crystal and electronic structure of FeSe at high	n pressure and low temperature. 2010 , 114, 12597-606	73
High-pressure stability and compressibility of A An x-ray diffraction study using synchrotron rad	APO4 (A=La, Nd, Eu, Gd, Er, and Y) orthophosphates: diation. 2010 , 81,	108
1340 Compressibility of synthetic glaucophane. 2010	0 , 37, 219-226	7
1339 Compressibility of nanocrystalline forsterite. 2	010 , 37, 343-351	11
lon tracks in apatite at high pressures: the effe properties of fluorapatite under hydrostatic co	ct of crystallographic track orientation on the elastic ompression. 2010 , 37, 371-387	13
1337 Isothermal compression behavior of (Mg,Fe)O	using neon as a pressure medium. 2010 , 37, 465-474	23
1336 In situ Raman spectroscopy on kerogen at high	temperatures and high pressures. 2010 , 37, 593-600	14
1335 X-ray diffraction study of 卧tabilized plutonium	alloys under pressure. 2010 , 397, 74-79	8
1334 Structural, electronic, elastic and thermal prop	erties of Mg2Si. 2010 , 71, 758-763	48
Structural Phase Transitions and Thermoelectr 2010 , 39, 1828-1831	ic Properties of AgPb18SbTe20 Under Compression.	8
1332 New high-pressure phase of HfTiO4 and ZrTiO4	4 ceramics. 2010 , 45, 1732-1735	27
1331 High-pressure Raman spectra of tuite, ECa3(PO	4)2. 2010 , 41, 1011-1013	21

1330	Submicron rectangular hollow tube crystals of rutile-type GeO2. 2010 , 312, 1731-1735	8
1329	A high-pressure cubic-to-tetragonal phase-transition in melanophlogite, a SiO2 clathrate phase. 2010 , 129, 267-273	11
1328	Pressure-induced transition in Tl2MoO4. 2010 , 183, 2558-2564	7
1327	High pressure equation of state studies using methanol@thanol@ater and argon as pressure media. 2010 , 71, 1059-1064	7
1326	The Raman spectroscopic studies of aligned MWCNTs treated under high pressure and high temperature. 2010 , 71, 1150-1153	7
1325	Pressure induced phase transition of nanocrystalline and bulk maghemite (Fe2O3) to hematite (Fe2O3). 2010 , 71, 1183-1186	19
1324	High pressure X-ray diffraction study of ReS2. 2010 , 71, 1571-1575	18
1323	Compressibility of microporous materials with CHA topology: 1. Natural chabazite and SAPO-34. 2010 , 127, 219-227	28
1322	Review of A2B2O7 pyrochlore response to irradiation and pressure. 2010 , 268, 2951-2959	154
1321	Isothermal compressibility and anisotropic structural response of As2O5 under pressure. 2010 , 150, 201-204	4
	Isothermal compressibility and anisotropic structural response of As2O5 under pressure. 2010 , 150, 201-204 X-ray diffraction study of -Ca3(PO4)2 at high pressure. 2010 , 150, 443-445	13
1320		
1320 1319	X-ray diffraction study of -Ca3(PO4)2 at high pressure. 2010 , 150, 443-445	13
1320 1319	X-ray diffraction study of -Ca3(PO4)2 at high pressure. 2010 , 150, 443-445 Ultrastable structure and luminescence properties of Y2O3 nanotubes. 2010 , 150, 1208-1212	13
1320 1319 1318	X-ray diffraction study of -Ca3(PO4)2 at high pressure. 2010 , 150, 443-445 Ultrastable structure and luminescence properties of Y2O3 nanotubes. 2010 , 150, 1208-1212 Phase transitions in Lu2O3 under high pressure. 2010 , 150, 1564-1569	13 26 16
1320 1319 1318	X-ray diffraction study of -Ca3(PO4)2 at high pressure. 2010 , 150, 443-445 Ultrastable structure and luminescence properties of Y2O3 nanotubes. 2010 , 150, 1208-1212 Phase transitions in Lu2O3 under high pressure. 2010 , 150, 1564-1569 Structural phase transition of Cu3N under high pressure. 2010 , 150, 1521-1524	13 26 16
1320 1319 1318 1317	X-ray diffraction study of -Ca3(PO4)2 at high pressure. 2010, 150, 443-445 Ultrastable structure and luminescence properties of Y2O3 nanotubes. 2010, 150, 1208-1212 Phase transitions in Lu2O3 under high pressure. 2010, 150, 1564-1569 Structural phase transition of Cu3N under high pressure. 2010, 150, 1521-1524 Study of monazite under high pressure. 2010, 150, 1845-1850 An in situ high pressure-high temperature powder diffraction study of the formation of a precursor	13 26 16 19 28

1312	(NH4)2WTe2O8 at 5.09 GPa: a single-crystal study using synchrotron radiation. 2010 , 66, i79-81	1
1311	Persistence of the stereochemical activity of the Bi3+ lone electron pair in Bi2Ga4O9 up to 50 GPa and crystal structure of the high-pressure phase. 2010 , 66, 323-37	23
1310	The High-Pressure Characterization of Energetic Materials: Diaminotetrazolium Nitrate (HDAT-NO3). 2010 , 35, 24-30	5
1309	The High-Pressure Characterization of Energetic Materials: 1-Methyl-5-Nitramino-1H-Tetrazole. 2010 , 35, 373-378	13
1308	Investigation of the Jahn \blacksquare eller effect in the ${\rm C}_{60}^{-} \$ monoanion under high pressure. 2010 , 247, 3047-3050	1
1307	Scale-Free Unified Analyses to Determine Primary P-V-T Equations of State of Materials. 2010 , 20, 210-220	2
1306	Magnetic state in iron hydride under pressure studied by X-ray magnetic circular dichroism at the Fe K-edge. 2010 , 1262, 1	4
1305	Pressure effect on the crystal lattice of unconventional superconductor UCoGe. 2010 , 22, 275603	10
1304	Structural consideration of phase transitions in Zn(OH)2under high pressure. 2010 , 215, 012001	5
1303	Comparing ruby fluorescence spectra at high pressure in between methanol-ethanol pressure transmitting medium and its deuteride. 2010 , 215, 012177	3
1302	In situ high-pressure study of LiNbO3-type FeTiO3: X-ray diffraction and MBsbauer spectroscopy. 2010 , 30, 395-405	16
1301	Vibrational properties of Re3N from experiment and theory. 2010 , 82,	23
1300	Experimental and theoretical investigation of the stability of the monoclinic BaWO4-II phase at high pressure and high temperature. 2010 , 81,	19
1299	In situ temperature measurements through i-anvils in diamond anvil cells. 2010 , 81, 023902	3
1298	Postcotunnite phase of the intermetallic compound AuIn2 at high pressure. 2010, 82,	4
1297	Equation of state, phase stability, and amorphization of SnI4 at high pressure and temperature. 2010 , 81,	10
1296	Phase relations and hardness trends of ZrO2 phases at high pressure. 2010 , 81,	52
1295	Oxygen/noble gas binary phase diagrams at 296 K and high pressures. 2010 , 82,	20

1294	Invited article: High-pressure techniques for condensed matter physics at low temperature. 2010 , 81, 041301	38
1293	Fundamental high-pressure calibration from all-electron quantum Monte Carlo calculations. 2010 , 104, 185702	36
1292	High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO4. 2010 , 108, 073518	29
1291	Equation of state, stability, anisotropy and nonlinear elasticity of diamond-cubic (ZB) silicon by phonon imaging at high pressure. 2010 , 82,	28
1290	Raman scattering evidence for a cascade evolution of the charge-density-wave collective amplitude mode. 2010 , 81,	34
1289	A perforated diamond anvil cell for high-energy x-ray diffraction of liquids and amorphous solids at high pressure. 2010 , 81, 035110	29
1288	Infrared spectroscopic studies on unoriented single-walled carbon nanotube films under hydrostatic pressure. 2010 , 81,	27
1287	Pressure dependence of the electronic structure of a [311] piezoelectric Ga0.85In0.15As/AlAs superlattice. 2010 , 82,	1
1286	Geometrical frustration versus magnetic order in the heavy-fermion antiferromagnet YbAgGe under high pressure. 2010 , 81,	17
1285	Influence of radiation damage on ruby as a pressure gauge. 2010 , 82,	3
	Influence of radiation damage on ruby as a pressure gauge. 2010 , 82, Origin of pressure-induced polyamorphism in Ce75Al25 metallic glass. 2010 , 104, 105702	3
1284		
1284	Origin of pressure-induced polyamorphism in Ce75Al25 metallic glass. 2010 , 104, 105702 High-pressure EXAFS study of vitreous GeO2 up to 44 GPa. 2010 , 81,	112
1284 1283 1282	Origin of pressure-induced polyamorphism in Ce75Al25 metallic glass. 2010 , 104, 105702 High-pressure EXAFS study of vitreous GeO2 up to 44 GPa. 2010 , 81,	112 44
1284 1283 1282	Origin of pressure-induced polyamorphism in Ce75Al25 metallic glass. 2010, 104, 105702 High-pressure EXAFS study of vitreous GeO2 up to 44 GPa. 2010, 81, Large volume collapse observed in the phase transition in cubic PbCrO3 perovskite. 2010, 107, 14026-9	112 44 61
1284 1283 1282	Origin of pressure-induced polyamorphism in Ce75Al25 metallic glass. 2010, 104, 105702 High-pressure EXAFS study of vitreous GeO2 up to 44 GPa. 2010, 81, Large volume collapse observed in the phase transition in cubic PbCrO3 perovskite. 2010, 107, 14026-9 High-pressure phase transitions and compressibility of wolframite-type tungstates. 2010, 107, 083506	112446154
1284 1283 1282 1281	Origin of pressure-induced polyamorphism in Ce75Al25 metallic glass. 2010, 104, 105702 High-pressure EXAFS study of vitreous GeO2 up to 44 GPa. 2010, 81, Large volume collapse observed in the phase transition in cubic PbCrO3 perovskite. 2010, 107, 14026-9 High-pressure phase transitions and compressibility of wolframite-type tungstates. 2010, 107, 083506 Structural stability of multiferroic BiFeO3. 2010, 30, 265-272 Optical study on strongly correlated electron system LiV2O4. 2010, 200, 012068	112 44 61 54 16

(2010-2010)

1276	Vibrational dynamics, intermolecular interactions, and compound formation in GeH4-H2 under pressure. 2010 , 133, 164512	34
1275	Pressure-induced competition between superconductivity and Kondo effect in CeFeAsO 1-x F x (x =0.16 and 0.3). 2010 , 91, 57008	17
1274	Compressional behavior of solid NeHe2 up to 90 GPa. 2010 , 22, 095401	4
1273	High-pressure behaviours of HoMn(2)O(5) and BiMn(2)O(5). 2010 , 22, 275401	6
1272	Pressure-induced orthorhombic structure of PbS. 2010 , 22, 095402	24
1271	Deactivation of pressure-induced amorphization in silicalite SiO2 by insertion of guest species. 2010 , 132, 8860-1	72
1270	Metal-insulator transition in NiS2⊠Sex. 2010 , 81,	44
1269	Inelastic X-ray scattering experiments on B4C under high static pressures. 2010 , 19, 530-532	12
1268	Pressure-induced phase transition in BaCrO4. 2010 , 81,	10
1267	Compression mechanism of GaF3 and FeF3: a high-pressure X-ray diffraction study. 2010 , 30, 634-642	8
1266	Structural compression and vibrational properties of Bi12SiO20 sillenite from experiment and theory. 2010 , 22, 505401	24
1265	Elasticity, strength, and refractive index of argon at high pressures. 2010 , 81,	22
1264	Temperature- and pressure-dependent lattice behaviour of RbFe(MoO4)2. 2010 , 22, 055406	14
1263	Pressure-induced spin-state transition in BiCoO3. 2010 , 132, 9438-43	136
1262	High-pressure structural study of fluoro-perovskite CsCdF3 up to 60 GPa: A combined experimental and theoretical study. 2010 , 81,	29
1261	On the assessment of hydroxyapatite fluoridation by means of Raman scattering. 2010 , 132, 244501	21
1260	Structure transition of multiferroic hexagonal TmMnO3 compound under high pressure. 2010 , 30, 258-264	8
1259	High-pressure vibrational properties of polyethylene. 2010 , 133, 204502	18

1258	High-pressure x-ray diffraction and ab initio study of Ni2Mo3N, Pd2Mo3N, Pt2Mo3N, Co3Mo3N, and Fe3Mo3N: Two families of ultra-incompressible bimetallic interstitial nitrides. 2010 , 82,	80
1257	Reduction of the transverse effective charge of optical phonons in ZnO under pressure. 2010 , 96, 231906	40
1256	The FeSi phase diagram to 150 GPa. <i>Journal of Geophysical Research</i> , 2010 , 115,	25
1255	Pressure-induced disordering and anomalous lattice expansion in La2Zr2O7 pyrochlore. 2010 , 105, 015503	53
1254	Space Efficient Opposed-Anvil High-Pressure Cell and Its Application to Optical and NMR Measurements up to 9 GPa. 2010 , 79, 024001	39
1253	Deconfinement transition and dimensional crossover in the Bechgaard-Fabre salts: Pressure- and temperature-dependent optical investigations. 2010 , 81,	34
1252	High-Pressure Structures and Transformations of Calcium Borohydride Probed by Combined Raman and Infrared Spectroscopies. 2010 , 114, 11635-11642	15
1251	Equation of State of Tantalum up to 133 GPa. 2010 , 27, 016402	7
1250	Pressure-volume-temperature equation of state of tungsten carbide to 32 GPa and 1673 K. 2010 , 108, 053513	41
1249	Bond length compressibility in hard ReB2 investigated by x-ray absorption under high pressure. 2010 , 22, 045701	15
1248	Ten Polymorphs of NH+IIIN Hydrogen-Bonded 1,4-Diazabicyclo[2.2.2]octane Complexes: Supramolecular Origin of Giant Anisotropic Dielectric Response in Polymorph V. 2010 , 10, 3537-3546	42
1247	Nanostructured gold architectures formed through high pressure-driven sintering of spherical nanoparticle arrays. 2010 , 132, 12826-8	84
1246	Spectroscopic Study of the Effects of Pressure Media on High-Pressure Phase Transitions in Natrolite. 2010 , 114, 18819-18824	9
1245	Pressure-induced polymerization of acrylic acid: a Raman spectroscopic study. 2010 , 114, 9744-50	77
1244	Increased stability of nanocrystals of Gd2(Ti0.65Zr0.35)2O7 pyrochlore at high pressure. 2010 , 494, 34-39	8
1243	Spin state of ferric iron in MgSiO3 perovskite and its effect on elastic properties. 2010 , 289, 68-75	120
1242	Elasticity and pressure-induced structural changes in vitreous MgSiO3-enstatite to lower mantle pressures. 2010 , 295, 523-530	47
1241	Effect of H2O on upper mantle phase transitions in MgSiO3: Is the depth of the seismic X-discontinuity an indicator of mantle water content?. 2010 , 183, 234-244	26

1240	The isothermal equation of state of CaPtO3 post-perovskite to 40GPa. 2010 , 182, 113-118	10
1239	A microscopic view on the Mott transition in chromium-doped V(2)O(3). 2010 , 1, 105	101
1238	Raman and infrared spectroscopy of pyridine under high pressure. 2010 , 82,	45
1237	Pressure-induced phase transition in cubic Lu2O3. 2010 , 108, 083541	31
1236	Resonant Raman scattering at exciton states tuned by pressure and temperature in 2H-MoS2. 2010 , 81,	102
1235	Stability of coronene at high temperature and pressure. 2010 , 114, 15753-8	29
1234	Melting of Sn at high pressure: comparisons with Pb. 2010 , 133, 084501	26
1233	Equations of state for Cu, Ag, and Au and problems with shock wave reduced isotherms. 2010 , 30, 372-394	21
1232	Ab initio thermodynamics beyond the quasiharmonic approximation: W as a prototype. 2010 , 81,	16
1231	Experimental Determinations of the High-Pressure Crystal Structures of Ca3N2. 2010 , 114, 16750-16755	13
1230	Zircon-monoclinic-scheelite transformation in nanocrystalline chromates. 2010 , 81,	4
1229	Compressibility of cubic white, orthorhombic black, rhombohedral black, and simple cubic black phosphorus. 2010 , 82,	32
1228	Diamond as a high pressure gauge up to 2.7 Mbar. 2010 , 97, 251903	25
1227	Novel rhenium nitrides. 2010 , 105, 085504	134
1226	Pressure induced transformations of 1,4-diazabicyclo[2.2.2]octane (dabco) hydroiodide: diprotonation of dabco, its N-methylation and co-crystallization with methanol. 2010 , 12, 2528	33
1225	Size-dependent amorphization of nanoscale Y2O3 at high pressure. 2010 , 105, 095701	87
1224	High-pressure melting curve of helium and neon: Deviations from corresponding states theory. 2010 , 81,	34
1223	Structural transformation and vibrational properties of BaO2 at high pressures. 2010 , 82,	15

1222	Two pressure-induced structural phase transitions in TiOCl. 2010 , 82,	4
1221	Valence change of europium in EuFe2As1.4P0.6 and compressed EuFe2As2 and its relation to superconductivity. 2010 , 82,	31
1220	Phase diagram up to 105 GPa and mechanical strength of HfO2. 2010 , 82,	45
1219	Structural stability of an icosahedral Cd-Yb quasicrystal and its crystalline approximant under high pressure. 2010 , 215, 012019	3
1218	StructureBroperty relations in chloroacetonitriles. 2011 , 13, 5212	6
1217	Raman spectrometry study of phase stability and phonon anharmonicity of Al3BC3 at elevated temperatures and high pressures. 2011 , 110, 113504	7
1216	Pressure-induced first-order phase transition in (NH4)2V3O8 fresnoite: a double coordination change for V4+ and V5+. 2011 , 40, 4572-7	13
1215	Disorder in BaThF6refinement of anharmonic displacement parameters from high-pressure single-crystal X-ray diffraction data. 2011 , 40, 1902-10	8
1214	Phase transformation of Ho2O3 at high pressure. 2011 , 110, 013526	30
1213	Effects of high pressure on azobenzene and hydrazobenzene probed by Raman spectroscopy. 2011 , 115, 14912-8	18
1212	Phase transition and structure of silver azide at high pressure. 2011 , 110, 023524	29
1211	Rotational Dynamics in C70: Temperature- and Pressure-Dependent Infrared Studies. 2011 , 115, 3646-3653	12
121 0	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO4: Comparison with isomorphic compounds. 2011 , 83,	61
1209	Structural properties and halogen bonds of cyanuric chloride under high pressure. 2011 , 115, 4639-44	20
1208	Growth and Optical Properties of Rectangular Hollow Tube TiO2Crystals with Rutile-Type Structure. 2011 , 11, 4427-4432	9
1207	Pressure-Induced Collapse in Double-Walled Carbon Nanotubes: Chemical and Mechanical Screening Effects. 2011 , 115, 5378-5384	72
1206	Convergent Raman features in high density amorphous ice, ice VII, and ice VIII under pressure. 2011 , 115, 3756-60	37
1205	Reversal of Hall-Petch effect in structural stability of PbTe nanocrystals and associated variation of phase transformation. 2011 , 11, 5531-6	36

1204	Perovskite, LiNbO3, corundum, and hexagonal polymorphs of (In(1-x)M(x))MO3. 2011 , 133, 9405-12	37
1203	High-pressure Raman spectra of Sr-substituted ECa3⊠ Sr x (PO4)2. 2011 , 1-7	
1202	Soda-lime silicate glass under hydrostatic pressure and indentation: a micro-Raman study. 2011 , 23, 035402	54
1201	Rotator Phases of n-Heptane under High Pressure: Raman Scattering and X-ray Diffraction Studies. 2011 , 115, 18310-18315	8
1200	High-pressure study of substrate material ScAlMgO4. 2011 , 83,	20
1199	Series of phase transitions in cesium azide under high pressure studied by in situ x-ray diffraction. 2011 , 84,	45
1198	Phase transition and metallization of FeO at high pressures and temperatures. 2011 , 38, n/a-n/a	34
1197	Distinct superconducting states in the pressure-induced metallic structures of the nominal semimetal Bi4Te3. 2011 , 84,	24
1196	High Pressure Synthesis and Preparation of Inorganic Materials. 2011 , 97-128	26
1195	High-pressure study of the infrared active modes in wurtzite and rocksalt ZnO. 2011 , 84,	12
1194	Substitutional alloy of Bi and Te at high pressure. 2011 , 106, 145501	318
1193	Structural investigation of LaAlO3 up to 63 GPa. 2011 , 23, 395401	9
1192	High-pressure crystallography. 2012 , 315, 69-109	11
1191	Persistence of Jahn-Teller distortion up to the insulator to metal transition in LaMnO3. 2011 , 106, 066402	67
1190	Synthesis of amorphous MgO-rich peridotitic starting material for laser-heated diamond anvil cell experiments [application to iron partitioning in the mantle. 2011 , 31, 199-213	10
1189	Phonon behavior of CaSnO3 perovskite under pressure. 2011 , 135, 224507	12
1188	Multiple high-pressure phase transitions in BiFeO3. 2011 , 84,	80
1187	High-pressure EXAFS measurements of crystalline Ge using nanocrystalline diamond anvils. 2011 , 84,	27

1186	Helium penetrates into silica glass and reduces its compressibility. 2011 , 2, 345	70
1185	Crystal structure of anhydrous 5-aminotetrazole and its high-pressure behavior. 2011 , 13, 99-102	15
1184	In situ high-pressure study of sodium amide by Raman and infrared spectroscopies. 2011 , 115, 7-13	25
1183	Compressibility of Fe1.087Te: a high pressure X-ray diffraction study. 2011 , 31, 603-610	7
1182	High-pressure phase transitions in BiFeO3: hydrostatic versus non-hydrostatic conditions. 2011 , 84, 474-482	23
1181	Low-cost set-up for Fourier-transform infrared spectroscopy in diamond anvil cell from 4000 to 400 cm []. 2011 , 31, 445-453	9
1180	Structure, bonding, and phase relations in Bi2Sn2O7 and Bi2Ti2O7 pyrochlores: new insights from high pressure and high temperature studies. 2011 , 50, 11905-13	26
1179	Compression behaviors of binary skutterudite CoP3 in noble gases up to 40 GPa at room temperature. 2011 , 50, 3281-5	7
1178	Reactions between organic acids and montmorillonite clay under Earth-forming conditions. 2011 , 283, 171-176	8
1177	Investigation into high-pressure behavior of MnTiO3: X-ray diffraction and Raman spectroscopy with diamond anvil cells. 2011 , 2, 107-114	21
1176	X-ray diffraction and MBsbauer spectroscopy study of fcc iron hydride FeH at high pressures and implications for the composition of the Earth's core. 2011 , 307, 409-414	57
1175	Iron-rich perovskite in the Earth's lower mantle. 2011 , 309, 179-184	37
1174	Effects of the Fe3+ spin transition on the properties of aluminous perovskiteNew insights for lower-mantle seismic heterogeneities. 2011 , 310, 293-302	79
1173	Plasmons in sodium under pressure: increasing departure from nearly free-electron behavior. 2011 , 107, 086402	20
1172	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. 2011 , 110, 043723	132
1171	High pressure x-ray diffraction measurements on Mg2SiO4 glass. 2011 , 357, 2632-2636	20
1170	High-pressure structural study of yttrium monochalcogenides from experiment and theory. 2011 , 83,	13
1169	In situ high-pressure study of FeP: Implications for planetary cores. 2011 , 184, 154-159	23

1168	Pressure-Induced Hydration of 1,4-Diazabicyclo[2.2.2]octane Hydroiodide (dabcoHI). 2011 , 11, 2250-2256	24
1167	High-pressure structural evolution of HP-Bi2O3. 2011 , 83,	14
1166	Compressional Behavior of Bulk and Nanorod LiMn2O4 under Nonhydrostatic Stress. 2011 , 115, 9844-9849	44
1165	Laboratory set-up for X-ray diffraction at high pressures. 2011 , 31, 611-619	2
1164	Melting curves of argon and methane. 2011 , 31, 549-554	16
1163	Compressional, temporal, and compositional behavior of H2-O2 compound formed by high pressure x-ray irradiation. 2011 , 134, 234502	2
1162	High-pressure behavior of the synthetic Ca2Sb2O7 weberite-type compound. 2011 , 13, 1092-1095	9
1161	Phase transition of cadmium fluoride under high pressure. 2011 , 151, 1899-1902	11
1160	Structural changes of (K,Gd)2Ta2O7 pyrochlore at high pressure. 2011 , 184, 2329-2332	2
1159	Structural and electronic evolution of Cr2O3 on compression to 55 GPa. 2011 , 184, 3040-3049	21
1158	Raman studies of selenium nanowires under high pressure. 2011 , 46, 350-354	8
1157	Determination of the bulk modulus of hydroxycancrinite, a possible zeolitic precursor in geopolymers, by high-pressure synchrotron X-ray diffraction. 2011 , 33, 1014-1019	16
1156	Analysis of the mechanism of lysozyme pressure denaturation from Raman spectroscopy investigations, and comparison with thermal denaturation. 2011 , 115, 6740-8	44
1155	Discovery of the recoverable high-pressure iron oxide Fe4O5. 2011 , 108, 17281-5	94
1154	The effect of crystallite size and stress condition on the equation of state of nanocrystalline MgO. 2011 , 110, 113512	9
1153	In situ high-pressure synchrotron x-ray diffraction study of CeVO4 and TbVO4 up to 50 GPa. 2011 , 84,	54
1152	Zircon to monazite phase transition in CeVO4: X-ray diffraction and Raman-scattering measurements. 2011 , 84,	71
1151	High-pressure x-ray diffraction study of CdMoO4 and EuMoO4. 2011 , 109, 043510-043510-5	27

1150	Pressure-induced collapse of ferromagnetism in cobalt up to 120 GPa as seen via x-ray magnetic circular dichroism. 2011 , 84,	28
1149	High-pressure study of ScVO4 by Raman scattering and ab initio calculations. 2011 , 83,	49
1148	High-pressure study of the behavior of mineral barite by x-ray diffraction. 2011 , 84,	59
1147	Pressure effect on crystal structure and superconductivity of La0.8Th0.2FeAsO. 2011 , 5, 208-210	
1146	High-pressure high-temperature synthesis and structure of ₱MgSiN2. 2011 , 5, 196-198	10
1145	Pressure induced phase transition in Pb6Bi2S9. 2011 , 38, 1-10	12
1144	Elasticity of CaIrO3 with perovskite and post-perovskite structure. 2011 , 38, 21-31	10
1143	X-ray diffraction study of arsenopyrite at high pressure. 2011 , 38, 95-99	4
1142	Phase relations in FeNiC system at high pressures and temperatures. 2011 , 38, 203-214	11
1141	Raman study of apatite amorphised with swift heavy ions under various irradiation conditions. 2011 , 38, 293-303	15
1140	Behavior of epidote at high pressure and high temperature: a powder diffraction study up to 10 GPa and 1,200 K. 2011 , 38, 419-428	18
1139	Stability of (Cs, K)Al4Be5B11O28 (londonite) at high pressure and high temperature: a potential neutron absorber material. 2011 , 38, 429-434	11
1138	New insights into the high-pressure polymorphism of SiO2 cristobalite. 2011 , 38, 517-529	45
1137	Elasticity and equation of state of Li2B4O7. 2011 , 38, 561-567	12
1136	Raman spectra of bixbyite, Mn2O3, up to 40 GPa. 2011 , 38, 685-691	27
1135	Hydroxyl stretching in phyllosilicates at high pressures and temperatures: an infrared spectroscopic study. 2011 , 38, 753-765	8
1134	High pressure X-ray diffraction study on icosahedral boron arsenide (B12As2). 2011 , 72, 144-146	14
1133	Elastic behavior of MFI-type zeolites: Compressibility of H-ZSM-5 in penetrating and non-penetrating media. 2011 , 184, 1505-1516	23

1132	A high-pressure single-crystal synchrotron diffraction study of NH4RbTe4O9[2H2O: stability of three different TeO(x) coordination polyhedra. 2011 , 67, i45-9	2
1131	Pressure-induced structural transition in CaF2 nanocrystals. 2011 , 248, 1115-1118	10
1130	X-ray diffraction of cubic Gd2O3/Er under high pressure. 2011 , 248, 1123-1127	12
1129	Direct synthesis of sp3-hybridized BCN compound by high pressure and temperature. 2011 , 248, 1132-1134	3
1128	High pressure Raman study of LiBC. 2011 , 248, 1158-1161	1
1127	Multiple-step phase transformation in silver nanoplates under high pressure. 2011 , 7, 606-11	31
1126	Lattice dynamics of ZnAl2O4 and ZnGa2O4 under high pressure. 2011 , 523, 157-167	36
1125	Does the Al substitution in CB田(I) change its mechanical property?. 2011 , 41, 102-106	45
1124	Bulk modulus of basic sodalite, Na8[AlSiO4]6(OH)2[2H2O, a possible zeolitic precursor in coal-fly-ash-based geopolymers. 2011 , 41, 107-112	26
1123	Pressure induced reactions amongst calcium aluminate hydrate phases. 2011 , 41, 571-578	33
1122	Thermoelastic properties of ScB2, TiB2, YB4 and HoB4: Experimental and theoretical studies. 2011 , 59, 4886-4894	48
1121	The high-pressure phase relation of the MgSO4H2O system and its implication for the internal structure of Ganymede. 2011 , 211, 648-654	25
1120	Elastic behavior of MFI-type zeolites: 1-Compressibility of Na-ZSM-5 in penetrating and non-penetrating media. 2011 , 142, 696-707	21
1119	High pressure X-ray diffraction study of potassium azide. 2011 , 72, 736-739	44
1118	Pressure-induced development of bonding in NiAs type compounds and polymorphism of NiP. 2011 , 184, 1997-2003	13
1117	High-pressure Raman spectroscopic studies on orthophosphates Ba3(PO4)2 and Sr3(PO4)2. 2011 , 151, 276-279	12
1116	Site dependent hardening of the lanthanum metal lattice by hydrogen absorption. 2011 , 151, 341-345	12
1115	Crossover from itinerant-electron to localized-electron behavior in Sr(1-x)Ca(x)CrO3 perovskite solid solution. 2011 , 23, 355601	7

1114	Thermal conductivity of compressed H2O to 22 GPa: A test of the Leibfried-Schlhann equation. 2011 , 83,	47
1113	Compression behavior of densified SiO2 glass. 2011 , 84,	49
1112	Pressure behavior of the sound velocity of liquid water at room temperature in the terahertz regime. 2011 , 84,	5
1111	Structural and valence changes of europium hydride induced by application of high-pressure HI 2011 , 107, 025501	27
1110	Structural and vibrational properties of the van der Waals compound (N2)11He up to 135 GPa. 2011 , 83,	14
1109	Experimental and theoretical study of structural properties and phase transitions in YAsO4 and YCrO4. 2011 , 83,	36
1108	Pressure induced structural transition and enhancement of superconductivity in Co doped CeFeAsO. 2011 , 98, 012511	11
1107	Pressure induced crystallization in amorphous silicon. 2011 , 109, 113511	19
1106	Ruby and Sm:YAG fluorescence pressure gauges up to 120 GPa and 700 K. 2011 , 110, 043513	17
1105	Determining the high-pressure phase transition in highly-ordered pyrolitic graphite with time-dependent electrical resistance measurements. 2011 , 110, 043725	11
1104	Viscosity of methane to 6 GPa and 673 K. 2011 , 84, 062201	12
1103	Thermal conductivity of hcp iron at high pressure and temperature. 2011 , 31, 228-236	24
1102	Interplay between magnetism, structure, and strong electron-phonon coupling in binary FeAs under pressure. 2011 , 83,	9
1101	Raman study of phase transitions in compressed methane using moissanite anvil cells. 2011 , 84,	15
1100	High-pressure study of silane to 150 GPa. 2011 , 83,	48
1099	Multipurpose high-pressure high-temperature diamond-anvil cell with a novel high-precision guiding system and a dual-mode pressurization device. 2011 , 82, 095108	3
1098	Nanoshells as a high-pressure gauge analyzed to 200 GPa. 2011 , 110, 114318	3
1097	Intriguing sequence of GaFeO3 structures and electronic states to 70 GPa. 2011 , 84,	25

1096 Pressure distribution in a quasi-hydrostatic pressure medium: A finite element analysis. 2011 , 110, 113523	6
1095 Patterned anvils for high pressure measurements at low temperature. 2011 , 82, 033901	6
Investigation of phase transition of mercury decomposed from mercury oxide up to 20 GPa. 2011 , 31, 555-559	2
1093 Thermoelastic properties of Zn3P2. 2011 , 31, 39-42	2
1092 Structural stability of BaMF4 (M = Mg, Zn and Mn) at high pressures. 2011 , 23, 215401	13
1091 In situ high-pressure X-ray diffraction experiments and ab initio calculations of Co 2 P. 2011 , 20, 066101	2
1090 In Situ High-Pressure Synchrotron X-Ray Diffraction Study of Clinozoisite. 2011 , 28, 126103	6
1089 High pressure X-ray diffraction study of SrMnO 3 perovskite. 2011 , 35, 514-518	3
High-pressure crystal structure of elastically isotropic CaTiO3 perovskite under hydrostatic and non-hydrostatic conditions. 2011 , 23, 455401	6
Synthesis of Binary Transition Metal Nitrides, Carbides and Borides from the Elements in the Laser-Heated Diamond Anvil Cell and Their Structure-Property Relations. 2011 , 4, 1648-1692	87
Structural behaviour of alkaline sulfides under compression: high-pressure experimental study on Cs2S. 2011 , 135, 054511	25
1085 New host for carbon in the deep Earth. 2011 , 108, 5184-7	93
Pressure-induced phase transition(s) in KMnF3 and the importance of the excess volume for phase transitions in perovskite structures. 2011 , 23, 485901	8
The structural variation of rhombohedral LaAlO3 perovskite under non-hydrostatic stress fields in a diamond-anvil cell. 2011 , 23, 175901	3
1082 Amorphization of C60 nanotubes under pressure. 2011 , 110, 014301	5
The acoustic velocity, refractive index, and equation of state of liquid ammonia dihydrate under high pressure and high temperature. 2012 , 137, 104504	6
1080 Raman Spectroscopy at High Pressures. 2012 , 2012, 1-16	27
1079 Compressibility of microporous materials with CHA topology: 2. ALPO-34. 2012 , 227, 514-521	10

1078	Structural and chemical properties of the nitrogen-rich energetic material triaminoguanidinium 1-methyl-5-nitriminotetrazolate under pressure. 2012 , 137, 054501	15
1077	Anomalous structural phase transition properties in ReSe2 and Au-doped ReSe2. 2012 , 137, 024509	12
1076	In situ Raman spectroscopic study of the pressure induced structural changes in ammonia borane. 2012 , 137, 074506	15
1075	Phase transitions in KIO(3). 2012 , 24, 325401, 1-11	9
1074	The deformation mechanism of a pressure-induced phase transition in dehydrated analcime. 2012 , 76, 129-142	7
1073	Determining the equation of state of amorphous solids at high pressure using optical microscopy. 2012 , 83, 033702	9
1072	Pressure-induced transition from the dynamic to static Jahn-Teller effect in (Ph4P)2IC60. 2012 , 85,	4
1071	New high-pressure phase and equation of state of Ce2Zr2O8. 2012 , 111, 053519	21
1070	Pressure effect and Mn doping in NaxCoO2. 2012 , 112, 053503	3
1069	Structural transformation and vibrational properties of BaC2 at high pressure. 2012 , 85,	24
1068	Pressure-induced phase transition in potassium azide up to 55 GPa. 2012 , 111, 112613	30
1068	Pressure-induced phase transition in potassium azide up to 55 GPa. 2012 , 111, 112613 Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. 2012 , 86,	30
1067	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni	
1067	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. 2012 , 86,	23
1067 1066 1065	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. 2012 , 86, Ruby pressure scale in a low-temperature diamond anvil cell. 2012 , 112, 124503 Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced	23
1067 1066 1065 1064	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. 2012, 86, Ruby pressure scale in a low-temperature diamond anvil cell. 2012, 112, 124503 Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the BaFe2As2 superconductors. 2012, 86,	23 30 4
1067 1066 1065 1064	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. 2012, 86, Ruby pressure scale in a low-temperature diamond anvil cell. 2012, 112, 124503 Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the BaFe2As2 superconductors. 2012, 86, Stability of Ni sites across the pressure-induced insulator-to-metal transition in YNiO3. 2012, 85,	23 30 4

1060	Pressure tunes electrical resistivity by four orders of magnitude in amorphous Ge2Sb2Te5 phase-change memory alloy. 2012 , 109, E1055-62	50
1059	High-pressure study of lithium amidoborane using Raman spectroscopy and insight into dihydrogen bonding absence. 2012 , 109, 19140-4	11
1058	Synchrotron X-ray diffraction study of phenacite at high pressure. 2012 , 36, 179-183	1
1057	Computer Simulation of the Magnesium Silicide Polymorphs. 2012 , 170-173, 3312-3315	
1056	IR beamline at the Swiss Light Source. 2012 , 359, 012003	7
1055	High pressure nano-tomography using an iterative method. 2012 , 111, 112626	19
1054	Deriving equations of state from non-hydrostatic data. 2012 , 377, 012032	5
1053	Pressure Induced Metallization in Zn1⊠BexSe Ternary Mixed Crystals. 2012 , 377, 012019	
1052	Phase transition and abnormal compressibility of lanthanide silicate with the apatite structure. 2012 , 85,	8
1051	High pressure melting curve of tin measured using an internal resistive heating technique to 45 GPa. 2012 , 111, 123529	22
1050	BX90: a new diamond anvil cell design for X-ray diffraction and optical measurements. 2012 , 83, 125102	169
1049	Pressure-driven quantum criticality in iron-selenide superconductors. 2012 , 108, 197001	48
1048	Direct Zircon-to-Scheelite Structural Transformation in YPO4 and YPO4:Eu3+ Nanoparticles Under High Pressure. 2012 , 116, 24837-24844	27
1047	Sequential dissociation of insulin amyloids probed by high pressure Fourier transform infrared spectroscopy. 2012 , 8, 11863	16
1046	Electronic structure of iron in magnesium silicate glasses at high pressure. 2012 , 39,	7
1045	⊞iopside, a new ultrahigh-pressure polymorph of CaMgSi2O6with six-coordinated silicon. 2012 , 39,	16
1044	Pressure dependence of the Verwey transition in magnetite: An infrared spectroscopic point of view. 2012 , 112, 073524	7
1043	Pressure Effect on Intersite Charge Transfer in A-site-Ordered Double-Perovskite-Structure Oxide. 2012 , 24, 2235-2239	30

1042	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. 2012 , 85,	14
1041	High-pressure transition to the post-barite phase in BaCrO4 hashemite. 2012 , 86,	18
1040	Phase transformation in hexagonal ErMnO3 under high pressure. 2012 , 112, 113512	10
1039	Hydrogen bonds and conformations in ethylene glycol under pressure. 2012 , 116, 12574-80	45
1038	High-Pressure and High-Temperature in situ X-Ray Diffraction Study of FeP 2 up to 70 GPa. 2012 , 29, 026102	7
1037	Materials Properties of Ultra-Incompressible Re2P. 2012 , 24, 3240-3246	12
1036	Derivation of the isothermal equation of state of carbon monoxide to 50GPa. 2012 , 546, 86-89	
1035	Ammonia molecule rotation of pressure-induced phase transition in ammonia hemihydrates 2NH3ľH2O. 2012 , 2, 4920	11
1034	High-pressure investigation of Li2MnSiO4 and Li2CoSiO4 electrode materials for lithium-ion batteries. 2012 , 51, 5779-86	30
1033	Experimental evidence for the structural models of Re2N and Re2C from micro-Raman spectroscopy. 2012 , 86,	9
1032	Reverse sequence of transitions in prototypic relaxor 1,4-diazabicyclo[2.2.2]octane. 2012 , 14, 6428	11
	Reverse sequence of transitions in prototypic relaxor 1,4-diazabicyclo[2.2.2]octane. 2012 , 14, 6428 High-pressure diffraction study of zeolites stilbite and stellerite. 2012 , 53, 26-34	3
1031	High-pressure diffraction study of zeolites stilbite and stellerite. 2012 , 53, 26-34 The application of in situ X-ray diffraction for the study of mineral reactions: The formation of	3
1031	High-pressure diffraction study of zeolites stilbite and stellerite. 2012 , 53, 26-34 The application of in situ X-ray diffraction for the study of mineral reactions: The formation of lawsonite at 400°C and 25 kbar. 2012 , 53, 43-46 Experimental and Theoretical Studies on a High Pressure Monoclinic Phase of Ammonia Borane.	3
1031	High-pressure diffraction study of zeolites stilbite and stellerite. 2012 , 53, 26-34 The application of in situ X-ray diffraction for the study of mineral reactions: The formation of lawsonite at 400°C and 25 kbar. 2012 , 53, 43-46 Experimental and Theoretical Studies on a High Pressure Monoclinic Phase of Ammonia Borane. 2012 , 116, 2172-2178	3337
1031 1030 1029 1028	High-pressure diffraction study of zeolites stilbite and stellerite. 2012, 53, 26-34 The application of in situ X-ray diffraction for the study of mineral reactions: The formation of lawsonite at 400°C and 25 kbar. 2012, 53, 43-46 Experimental and Theoretical Studies on a High Pressure Monoclinic Phase of Ammonia Borane. 2012, 116, 2172-2178 High-pressure, high-temperature single-crystal study of Bi-IV. 2012, 32, 442-449	3 3 37 19

1024	2012, 24, 435403	15
1023	High-pressure phase transition of Bi2Fe4O9. 2012 , 24, 145401	8
1022	High-pressure behavior of osmium: An analog for iron in Earth⊠ core. 2012 , 111, 112608	12
1021	Pressure-induced phase transition study of magnesiochromite (MgCr2O4) by Raman spectroscopy and X-ray diffraction. 2012 , 196-197, 75-82	35
1020	Compressibility anomaly in the superconducting material Nb3Al under high pressure. 2012 , 407, 3635-3638	9
1019	Phase transitions of pure and Ba-doped BiFeO3 under high pressure. 2012 , 152, 1613-1617	11
1018	High-Pressure Routes to Ceramics. 2012 , 501-517	
1017	High-Pressure Raman and X-ray Diffraction Study of ∄and ⊡olymorphs of Aluminum Hydride. 2012 , 116, 3808-3816	13
1016	Extraordinarily complex crystal structure with mesoscopic patterning in barium at high pressure. 2012 , 11, 627-32	40
1015	Raman, FTIR, photoacoustic-infrared, and inelastic neutron scattering spectra of ternary metal hydride salts A2MH5, (A = Ca, Sr, Eu; M = Ir, Rh) and their deuterides. 2012 , 116, 2490-6	4
1014	Elastic behavior of MFI-type zeolites: 3 © Compressibility of silicalite and mutinaite. 2012, 191, 201-212	18
1013	High pressure structural study of 町i3O5: X-ray diffraction and Raman spectroscopy. 2012 , 192, 356-359	27
1012	Compressibility and structural stability of CeN from experiment and theory. The B1 B 2 transition. 2012 , 533, 29-32	12
1011	Sound velocity measurements in dhcp-FeH up to 70GPa with inelastic X-ray scattering: Implications for the composition of the Earth's core. 2012 , 313-314, 79-85	54
1010	CaCO3-III and CaCO3-VI, high-pressure polymorphs of calcite: Possible host structures for carbon in the Earth's mantle. 2012 , 333-334, 265-271	75
1009	Compressibility of Nanocrystalline TiO2 Anatase. 2012 , 116, 21635-21639	33
1008	High pressure transport properties of the topological insulator Bi2Se3. 2012 , 24, 035602	46
1007	Pressure effects on the magnetic properties of FeCuZr studied by x-ray magnetic circular dichroism: Evidence of weakening of ferromagnetism in FeCuZr alloys. 2012 , 101, 022412	2

1006	Synthesis and Pressure-induced Reversible Phase Transition of a Crystalline Solid Europium Germanate NaEuGeO4. 2012 , 30, 2066-2072	6
1005	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in the intermetallic compound Mn2Sb. 2012 , 249, 2239-2243	3
1004	High-pressure optical and vibrational properties of CdGa2Se4: Order-disorder processes in adamantine compounds. 2012 , 111, 013518	36
1003	Pressure effects on grain boundary, electrical and vibrational properties of the polycrystalline BaTeO 3. 2012 , 98, 66006	9
1002	Structural behavior of the acetylide carbides Li2C2 and CaC2 at high pressure. 2012 , 137, 224507	29
1001	Compression of silver sulfide: X-ray diffraction measurements and total-energy calculations. 2012 , 51, 5289-98	31
1000	Structurally hidden magnetic transitions in Fe3C at high pressures. 2012 , 85,	35
999	Effect of nanostructuration on compressibility of cubic BN. 2012 , 34, 336-338	6
998	Crystal structures and stability of NaLnF4 (Ln = La, Ce, Pr, Nd, Sm and Gd) studied with synchrotron single-crystal and powder diffraction. 2012 , 41, 10258-66	21
997	Optical reflectivity of solid and liquid methane: Application to spectroscopy of Titan's hydrocarbon lakes. 2012 , 39, n/a-n/a	3
996	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a	50
995	Equation of state and phase diagram of Fell6Si alloy as a candidate component of Earth's core. 2012 , 357-358, 268-276	45
994	Radiative heat transfer in a hydrous mantle transition zone. 2012 , 357-358, 130-136	22
993	A re-investigation on pressure-induced phase transition of Mg2Si. 2012 , 152, 2160-2164	13
992	On the high-pressure behavior of gobbinsite, the natural counterpart of the synthetic zeolite Na B 2. 2012 , 163, 259-269	11
991	Phase stability and thermo-elastic behavior of CsAlSiO4 (ABW): A potential nuclear waste disposal material. 2012 , 163, 147-152	14
990	Synthesis, Crystal Structure, and Elastic Properties of Novel Tungsten Nitrides. 2012 , 24, 3023-3028	127
989	Remote halogen switch of amine hydrophilicity. 2012 , 14, 6374	10

988	The phase diagram of ammonium nitrate. 2012 , 137, 064504	32
987	Determinations of the high-pressure crystal structures of Sb2Te3. 2012 , 24, 475403	33
986	Carbon disulfide assisted polymerization of benzene. 2012 , 116, 2414-9	7
985	Crystal Chemistry of CdIn2S4, MgIn2S4, and MnIn2S4 Thiospinels under High Pressure. 2012 , 116, 14078-1408	37 38
984	Structural Stability and Compressibility Study for ZnO Nanobelts under High Pressure. 2012 , 116, 2074-2079	19
983	Complex high-pressure polymorphism of barium tungstate. 2012 , 86,	61
982	The compressibility of nanocrystalline Pt. 2012 , 101, 173111	13
981	In situ structure characterization of Pb(Yb1/2Nb1/2)O3-PbTiO3 crystals under high pressure-temperature. 2012 , 101, 062904	8
980	High pressure X-ray diffraction study on BaWO4-II. 2012 , 1-8	2
979	Pressure tuning of the optical properties of GaAs nanowires. 2012 , 6, 3284-91	39
978	Electronic phase transitions in cadmium at high pressures. 2012 , 377, 012033	3
977	Large Volume Collapse during Pressure-Induced Phase Transition in Lithium Amide. 2012 , 116, 9744-9749	29
976	Interplay between crystal electric field and magnetic exchange anisotropies in the heavy-fermion antiferromagnet YbRhSb under pressure. 2012 , 85,	7
975	High pressure Raman and x-ray diffraction studies on the decomposition of tungsten carbonyl. 2012 , 111, 112606	3
974	Reversible high-pressure phase transition in LaN. 2012 , 111, 093503	19
973	Re-emerging superconductivity at 48 kelvin in iron chalcogenides. 2012 , 483, 67-9	2 60
972	Ruby fluorescence lifetime measurements for temperature determinations at high (p, T). 2012, 1-8	1
971	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO4. 2012 , 85,	53

970	The thermoelastic behavior of clintonite up to 10 GPa and 1,000°C. 2012 , 39, 385-397	4
969	Tetragonal to orthorhombic phase transition of ammonia borane at low temperature and high pressure. 2012 , 111, 112618	10
968	Raman spectroscopy of natural cordierite at high water pressure up to 5 GPa. 2012 , 43, 559-563	17
967	Calibration of berlinite (AlPO4) as Raman spectroscopic pressure sensor for diamond-anvil cell experiments at elevated temperatures. 2012 , 43, 564-570	3
966	NaEu3(GeO4)2(OH)2: A High-Pressure-Stable Photoluminescent Lanthanide Germanate. 2012 , 2012, 2527-2532	14
965	Structural and vibrational study of cubic Sb2O3 under high pressure. 2012 , 85,	57
964	Compressibility of As4S4: an in situ high-pressure single-crystal X-ray study. 2012 , 76, 963-973	7
963	Pressure-induced structural change in orthorhombic perovskite GdMnO3. 2012 , 24, 115402	15
962	Suppression of magnetism and development of superconductivity within the collapsed tetragonal phase of Ca0.67Sr0.33Fe2As2 under pressure. 2012 , 85,	28
961	HgO at high pressures: the transition to the NaCl structure (HgO-III) and the equation of state of tetragonal HgO-II. 2012 , 39, 269-275	3
960	Crystal-structure properties and the molecular nature of hydrostatically compressed realgar. 2012 , 39, 399-412	12
959	High pressure study of low compressibility tetracalcium aluminum carbonate hydrates 3CaO[Al2O3[CaCO3[1]1H2O. 2012 , 42, 105-110	47
958	Experimental determination of bulk modulus of 14 Itobermorite using high pressure synchrotron X-ray diffraction. 2012 , 42, 397-403	61
957	Elastic Properties of Tricalcium Aluminate from High-Pressure Experiments and First-Principles Calculations. 2012 , 95, 2972-2978	24
956	Pressure-induced phase transition of Fe2TiO4: X-ray diffraction and M\(\beta\)sbauer spectroscopy. 2012 , 185, 72-75	5
955	Structural phase transitions of SrF2 at high pressure. 2012 , 186, 231-234	12
954	An X-ray single crystal study of alkaline cations influence on laumontite hydration ability: II. Pressure-induced hydration of Na,K-rich laumontite. 2012 , 159, 126-131	8
953	Response behavior of ZrO2 under swift heavy ion irradiation with and without external pressure. 2012 , 277, 45-52	28

(2013-2012)

952	Raman signatures of pressure induced electronic topological and structural transitions in Bi2Te3. 2012 , 152, 284-287	24
951	Pressure-induced crystallization of amorphous red phosphorus. 2012 , 152, 390-394	50
950	High pressure powder X-ray diffraction study of Cr2As and pressure-induced structural phase transition. 2012 , 152, 509-512	9
949	Ruby micro-piezospectroscopy in GdAlO3/Al2O3(/ZrO2), Er3Al5O12/Al2O3(/ZrO2) and Y3Al5O12/Al2O3(/ZrO2) binary and ternary directionally solidified eutectics. 2012 , 32, 2145-2151	12
948	Pressure-tuned vibrational resonance coupling of intramolecular fundamentals in ammonium azide (NH4N3). 2012 , 58, 188-192	16
947	Phase transition at high pressure in Cu2CO3(OH)2 related to the reduction of the Jahn-Teller effect. 2012 , 68, 266-74	23
946	High-pressure and high-temperature Raman spectroscopic study of hydrous wadsleyite (mg2SiO4). 2012 , 39, 57-64	4
945	The influence of the JahnIIeller effect at Fe2+ on the structure of chromite at high pressure. 2012 , 39, 131-141	31
944	Insights into the high-pressure behavior of kaolinite from infrared spectroscopy and quantum-mechanical calculations. 2012 , 39, 143-151	13
943	Structural transformations in cubic Dy2O3 at high pressures. 2013 , 169, 37-41	23
942	Raman spectroscopy and lattice dynamics of MgSiO3-perovskite at high pressure. 2013, 35-44	18
941	Lattice Dynamics Study of HgGa2Se4 at High Pressures. 2013 , 117, 15773-15781	19
940	Pressure-induced switching between amorphization and crystallization in PbTe nanoparticles. 2013 , 13, 3729-35	29
939	Pressure-induced phase transitions and correlation between structure and superconductivity in iron-based superconductor Ce(O(0.84)F(0.16))FeAs. 2013 , 52, 8067-73	6
938	High-pressure behaviour of synthetic weberite-type Mn2+2Sb5+2O7: An in situ single-crystal X-ray study. 2013 , 21, 85-90	5
937	High-pressure behavior of FeOCl. 2013 , 88,	8
936	Unraveling Convoluted Structural Transitions in SnTe at High Pressure. 2013 , 117, 5352-5357	35
935	Probing nonequivalent sites in iron phosphide Fe2P and its mechanism of phase transition. 2013 , 86, 1	9

934	Structure and properties of rare earth silicates with the apatite structure at high pressure. 2013 , 40, 817-825	7
933	Effects of pressure on PbWO4-III. 2013, 40, 341-348	1
932	Structural Changes in Tribo-Stressed Zinc Polyphosphates. 2013 , 51, 489-498	24
931	Reactivity of xenon with ice at planetary conditions. 2013 , 110, 265501	36
930	Equation of state of ⊕Al2O3. 2013 , 88,	11
929	Pressure-induced amorphization in single-crystal Ta2O5 nanowires: a kinetic mechanism and improved electrical conductivity. 2013 , 135, 13947-53	49
928	Phase transition and possible metallization in CeVO4 under pressure. 2013 , 203, 273-280	33
927	Compressibility and phase transition of intermetallic compound Fe2Ti. 2013 , 558, 160-163	10
926	Self-consistent pressure scales based on the equations of state for ruby, diamond, MgO, B2NaCl, as well as Au, Pt, and other metals to 4 Mbar and 3000 K. 2013 , 54, 181-199	60
925	Effect of Water on the Sound Velocities of Ringwoodite in the Transition Zone. 2013 , 131-145	24
924	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. 2013 , 114, 233507	25
923	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. 2013 , 113, 233501	14
922	Influence of NaCl on ice VI and ice VII melting curves up to 6 GPa, implications for large icy moons. 2013 , 226, 355-363	31
921	Effect of pressure and temperature on the wavelength shift of the fluorescence line of SrB 4O 7:Sm 2+ scale. 2013 , 33, 725-733	8
920	An experimental study on SrB4O7:Sm2+ as a pressure sensor. 2013 , 113, 023507	32
919	The novel phase transition of NaBi(WO4)2 under high pressure. 2013 , 200, 246-250	2
918	Structural change in molten basalt at deep mantle conditions. 2013 , 503, 104-7	120
917	Hydrogen (deuterium) vibron frequency as a pressure comparison gauge at multi-Mbar pressures. 2013 , 114, 073505	20

916	FTIR analysis of the high pressure response of native insulin assemblies. 2013 , 1050, 159-165	8
915	Ruby fluorescence pressure scale: Revisited. 2013 , 22, 056201	11
914	High-pressure behavior of structural, optical, and electronic transport properties of the golden Th2S3-type Ti2O3. 2013 , 88,	21
913	Phase transitions in PbTe under quasi-hydrostatic pressure up to 50 GPa. 2013 , 33, 713-719	10
912	High-pressure effect on inverse spinel LiCuVO4: X-ray diffraction and Raman scattering. 2013 , 22, 016103	4
911	The effects of extreme pressures on single-crystal structures with distortions of the cation coordination sphere. 2013 , 33, 523-533	
910	Investigation of lattice dynamical and dielectric properties of MgO under high pressure by means of mid-´and far-infrared spectroscopy. 2013 , 25, 505902	7
909	High-Pressure Behavior and Phase Stability of Al5BO9, a Mullite-Type Ceramic Material. 2013 , 96, 2583-2592	18
908	CO2-helium and CO2-neon mixtures at high pressures. 2013 , 138, 044505	3
907	High pressure powder X-ray diffraction of sillenites Bi12MO20 (M=Si, Ge, Ti) and Bi4Ti3O12. 2013 , 208, 35-42	6
906	High-Pressure Stability and Compressibility of Zircon-Type YV1\(\mathbb{P}\x) PxO4:Eu3+ Solid-Solution Nanoparticles: An X-ray Diffraction and Raman Spectroscopy Study. 2013 , 117, 18603-18612	10
905	Anomalous compression and new high-pressure phases of vanadium sesquioxide, V2O3. 2013 , 25, 385401	9
904	Elasticity and lattice dynamics of enstatite at high pressure. 2013 , 118, 4071-4082	22
903	High-pressure resistivity technique for quasi-hydrostatic compression experiments. 2013 , 84, 063903	14
902	Structural phase transition and photoluminescence properties of YF3 and YF3:Eu3+ under high pressure. 2013 , 15, 19925-31	28
901	The pressure-induced amorphous state of acetonitrile. 2013 , 3, 1509-1513	10
900	Determination of the phase diagram of water and investigation of the electrical transport properties of ices VI and VII. 2013 , 15, 14364-9	5
899	Pressure-induced local lattice distortions in ⊞co[N(CN)2]2. 2013 , 52, 14148-54	8

898	Structural study of ⊞i2O3 under pressure. 2013 , 25, 475402	27
897	Neutron diffraction and electrical transport studies on magnetic ordering in terbium at high pressures and low temperatures. 2013 , 33, 555-562	8
896	High pressure studies on uranium and thorium silicide compounds: Experiment and theory. 2013 , 546, 63-71	20
895	Synthesis, structural characterization and high pressure phase transitions of monolithium hydronium sulfate. 2013 , 197, 181-185	1
894	Pressure-Dependent Formation and Decomposition of Thiourea Hydrates. 2013 , 13, 121-125	33
893	Few-layer graphene under high pressure: Raman and X-ray diffraction studies. 2013, 154, 15-18	90
892	Anomalous behavior of cristobalite in helium under high pressure. 2013 , 40, 3-10	19
891	On the crystal structure and compressional behavior of talc: a mineral of interest in petrology and material science. 2013 , 40, 145-156	25
890	New type of possible high-pressure polymorphism in NiAs minerals in planetary cores. 2013 , 40, 183-193	8
889	An x-ray scattering study of Sn2P2S6: absence of incommensurate phase up to 1 GPa. 2013 , 25, 115901	11
888	Equation of state, refractive index and polarizability of compressed water to 7 GPa and 673 K. 2013 , 138, 054505	27
887	Polymorphic transformation of anhydrous caffeine upon grinding and hydrostatic pressurizing analyzed by low-frequency raman spectroscopy. 2013 , 102, 162-70	35
886	Imaging of internal stress around a mineral inclusion in a sapphire crystal: application of micro-Raman and photoluminescence spectroscopy. 2013 , 44, 147-154	17
885	Pressure-induced noble gas insertion into Linde-type A zeolite and its incompressible behaviors at high pressure. 2013 , 182, 191-197	11
884	High-pressure Raman spectroscopy study of LiGaO2. 2013 , 164, 6-10	12
883	Elastic behavior and high pressure-induced phase transition in chabazite: New data from a natural sample from Nova Scotia. 2013 , 170, 52-61	13
882	Pressure and temperature dependence of Raman scattering of MnWO4. 2013 , 586, 76-80	12
881	Ammonia borane at low temperature down to 90 K and high pressure up to 15 GPa. 2013 , 38, 4628-4635	14

(2013-2013)

880	Crystal structures and stability of LiCeF5 and LiThF5 at high pressures: A comparative study of the coordination around the Ce4+ and Th4+ ions. 2013 , 156, 124-129	10
879	Pressure-induced structural and vibrational evolution in ferroelectric RInO3 (R=Eu, Gd, Dy). 2013 , 173, 51-55	6
878	Mott transition in CaFe2O4 at around 50 GPa. 2013 , 88,	14
877	Novel pressure-induced phase transitions in Co3O4. 2013 , 102, 041912	11
876	High-pressure polymorphs of TbVO4: A Raman and ab initio study. 2013 , 577, 327-335	39
875	High-pressure structural behaviour of Cu0.5Fe0.5Cr2S4: An experimental and theoretical study. 2013 , 578, 202-207	3
874	Argon solubility in SiO2 melt under high pressures: A new experimental result using laser-heated diamond anvil cell. 2013 , 363, 1-8	13
873	Metastable high-pressure transformations of orthoferrosilite Fs82. 2013 , 221, 15-21	24
872	Spin transition of Fe3+ in Al-bearing phase D: An alternative explanation for small-scale seismic scatterers in the mid-lower mantle. 2013 , 382, 1-9	19
871	High pressure and high temperature in situ X-ray diffraction study on the structural stability of tantalum disilicide. 2013 , 157, 1-5	6
870	Phase relations in the FelleSi system at high pressures and temperatures. 2013, 373, 54-64	91
869	Elasticity of single-crystal iron-bearing pyrope up to 20 GPa and 750 K. 2013 , 361, 134-142	40
868	Melting of compressed iron by monitoring atomic dynamics. 2013 , 362, 143-150	59
867	Hydrogen Bonds NHIIN in Compressed Benzimidazole Polymorphs. 2013 , 13, 696-700	31
866	Vibrational, elastic, and structural properties of cubic silicon carbide under pressure up to 75 GPa: Implication for a primary pressure scale. 2013 , 113, 113503	36
865	High-pressure powder X-ray diffraction study of Cu5Si and pressure-driven isostructural phase transition. 2013 , 93, 85-92	
864	Structural behaviour of Pd40Cu30Ni10P20 metallic glass under high pressure. 2013 , 38, 9-13	11
863	High-pressure characterization of nitrogen-rich bis-triaminoguanidinium azotetrazolate (TAGzT) by in situ Raman spectroscopy. 2013 , 117, 1737-43	10

862	Pressure-induced tetragonal-orthorhombic phase transitions in CeRuPO. 2013 , 102, 051917	2
861	Temperature and pressure effects of multiferroic Bi2NiTiO6 compound. 2013 , 113, 143514	9
860	Coherent diffraction imaging of nanoscale strain evolution in a single crystal under high pressure. 2013 , 4, 1680	77
859	Polaron physics and crossover transition in magnetite probed by pressure-dependent infrared spectroscopy. 2013 , 25, 035602	5
858	Codetermination of crystal structures at high pressure: Combined application of theory and experiment to the intermetallic compound AuGa2. 2013 , 87,	5
857	Raman spectroscopy of glassy carbon up to 60 GPa. 2013 , 102, 121909	31
856	XRD and XAS structural study of CuAlO2 under high pressure. 2013 , 25, 115406	11
855	Material and Elastic Properties of Al-Tobermorite in Ancient Roman Seawater Concrete. 2013 , 96, 2598-2606	79
854	Observation of the sixth polymorph of BiB3O6: in situ high-pressure Raman spectroscopy and synchrotron X-ray diffraction studies on the #polymorph. 2013 , 52, 7460-6	17
853	Pressure-induced transformations in PrVO4 and SmVO4 and isolation of high-pressure metastable phases. 2013 , 52, 5464-9	49
852	Phase Behavior of Ag2CrO4 under Compression: Structural, Vibrational, and Optical Properties. 2013 , 117, 12239-12248	21
851	New Polar Phases of 1,4-Diazabicyclo[2.2.2]octane Perchlorate, An NH+IIIN Hydrogen-Bonded Ferroelectric. 2013 , 13, 2872-2879	16
850	Crystal structures and stability of trigonal KLnF4 fluorides (Ln = Y, Ho, Er, Tm, Yb). 2013 , 42, 441-7	9
849	Pressure-induced phase transitions in sodium europium carbonate (Na3Eu(CO3)3) and europium-doped yttrium sesquioxide (Y2O3:Eu3+) by time-resolved laser fluorescence spectroscopy. 2013 , 33, 652-662	1
848	High pressure Raman scattering and X-ray diffraction studies of MgNb2O6. 2013 , 3, 13210	15
847	Superconductivity in topological insulator Sb2Te3 induced by pressure. 2013 , 3, 2016	113
846	Phase-dominant pressure-induced planar molecular conformation of S-trioxane. 2013 , 117, 8911-7	2
845	Magnetism and structural distortions in uranium sulfide under pressure. 2013 , 87,	9

844	High-pressure phase transitions, amorphization, and crystallization behaviors in Bi2Se3. 2013 , 25, 125602	44
843	Stabilization of 9/10-Fold Structure in Bismuth Selenide at High Pressures. 2013 , 117, 10045-10050	38
842	Damping and Resonance Correlations in OHTTO Bonded Ferroelectrics. 2013, 117, 14213-14217	7
841	Crystal structures and stability of K2ThF6 and K7Th6F31 on compression. 2013 , 150, 8-13	8
840	The crystallographic stability and anisotropic compressibility of C54-type TiSi2 under high pressure. 2013 , 74, 1291-1294	3
839	Measurement of improved pressure dependence of superconducting transition temperature. 2013 , 33, 381-391	7
838	Pressure-induced structural phase transition and equation of state of LiTaO3. 2013, 25, 215401	3
837	Comparative study on the pressure-induced phase transformation of anatase TiO hollow and solid microspheres. 2019 , 31, 395403	1
836	Penta- and hexa-coordinated beryllium and phosphorus in high-pressure modifications of CaBePO. 2019 , 10, 2800	12
835	Allanite at high pressure: effect of REE on the elastic behaviour of epidote-group minerals. 2019 , 46, 783-793	3
834	The high-pressure and low-temperature structural behaviour of 2,2,2-trifluoroethanol. 2019 , 21, 4501-4506	2
833	Post-tilleyite, a dense calcium silicate-carbonate phase. 2019 , 9, 7898	11
832	Pressure-Induced Phase Transition and Band Gap Engineering in Propylammonium Lead Bromide Perovskite. 2019 , 123, 15204-15208	8
831	Optical signatures of energy gap in correlated Dirac fermions. 2019 , 4,	11
830	Raman study of pressure-induced dissociative transitions in nitrogen. 2019 , 298, 113645	5
829	Pressure-induced reentrant transition in NbS3 phases: Combined Raman scattering and x-ray diffraction study. 2019 , 99,	2
828	Structure and disorder in ice VII on the approach to hydrogen-bond symmetrization. 2019 , 99,	14
827	Gold(i) sulfide: unusual bonding and an unexpected computational challenge in a simple solid. 2019 , 10, 6467-6475	8

826	Sound Velocities and Elastic Moduli of Phases I and V of Silicon at High Pressures. 2019 , 13, 1900173	1
825	Study of LaFeO3 perovskite material by high-pressure Raman scattering. 2019 , 496, 012045	2
824	High pressure structural investigations on K2Zr(PO4)2. 2019 , 276, 251-260	2
823	Pressure Effects on the Optical Properties of NdVO4. 2019 , 9, 237	10
822	Pressure-Induced Structural Phase Transition and a Special Amorphization Phase of Two-Dimensional Ferromagnetic Semiconductor Cr2Ge2Te6. 2019 , 123, 13885-13891	20
821	Thermal Conductivity Enhancement in MoS_{2} under Extreme Strain. 2019 , 122, 155901	37
820	Pressure Induced Nanoparticle Phase Behavior, Property, and Applications. 2019, 119, 7673-7717	98
819	XAS studies of pressure-induced structural and electronic transformations in FeOOH. 2019 , 31, 325401	2
818	Equation of state of LiCoO 2 under 30 GPa pressure. 2019 , 28, 016402	2
817	High-pressure, high-temperature molecular doping of nanodiamond. 2019 , 5, eaau6073	25
816	Carbonation of Chrysotile under Subduction Conditions. 2019 , 5, 490-497	1
815	Differential penetration of ethanol and water in Si-chabazite: High pressure dehydration of azeotrope solution. 2019 , 284, 161-169	9
814	High-Pressure Single-Crystal X-ray Diffraction of Lead Chromate: Structural Determination and Reinterpretation of Electronic and Vibrational Properties. 2019 , 58, 5966-5979	11
813	Fermions and bosons in nonsymmorphic PdSb2 with sixfold degeneracy. 2019 , 99,	13
812	High-Pressure Induced Phase Transitions in High-Entropy Alloys: A Review. 2019 , 21,	13
811	Giant conductivity enhancement: Pressure-induced semiconductor-metal phase transition in Cd0.90Zn0.1Te. 2019 , 99,	3
810	Helium-hydrogen immiscibility at high pressures. 2019 , 150, 114504	3
809	Modulation of piezochromic fluorescence behavior by subtle structural change. 2019 , 166, 301-306	2

808	Vibrational properties of CdGa2S4 at high pressure. 2019 , 125, 115901	4
807	Pressure-induced evolution of structural and electronic properties in TiTe2. 2019 , 99,	7
806	Infrared spectroscopic measurements of structural transition and charge dynamics in 1TIIiTe2 under pressure. 2019 , 99,	5
805	Pressure-Induced Polymerization and Electrical Conductivity of a Polyiodide. 2019 , 58, 6625-6629	16
804	An infrared and Raman spectroscopic study of PbSO4-anglesite at high pressures. 2019 , 46, 623-637	5
803	High-Pressure Behavior of C2I2 and Polymerization to a Conductive Polymer. 2019 , 123, 11369-11377	11
802	Plasmons in Li under compression. 2019 , 31, 185501	
801	Sound velocities across calcite phase transitions by Brillouin scattering spectroscopy. 2019 , 104, 418-424	3
800	Stability of Zirconium Carbide under High Pressure and High Temperature. 2019 , 123, 10051-10056	9
799	Anisotropic compressional behavior of ettringite. 2019 , 120, 46-51	10
798	Band gap closure, incommensurability and molecular dissociation of dense chlorine. 2019 , 10, 1134	7
797	Pressure-Induced Polymerization and Electrical Conductivity of a Polyiodide. 2019 , 131, 6697-6701	3
796	Mechanical properties of boron arsenide single crystal. 2019 , 114, 131903	15
795	Polymerized 4-Fold Coordinated Carbonate Melts in the Deep Mantle. 2019 , 7,	2
794	Structural Studies on the Cull System under Compression. 2019 , 5, 505-509	7
793	The experimental compression behavior of platinum hydride to 128 GPa. 2019 , 249, 84-86	4
792	Drastic photoluminescence modulation of an organic molecular crystal with high pressure. 2019 , 3, 1510-151	7 12
791	New insights on the GeSeTe phase diagram from theory and experiment. 2019 , 75, 246-256	4

79°	An in situ Raman study on katoite Ca3Al2(O4H4)3 at high pressure. 2019 , 114, 18-25	1
789	High pressure behavior of mercury difluoride (HgF2). 2019 , 724, 35-41	3
788	High-pressure characterization of the optical and electronic properties of InVO4, InNbO4, and InTaO4. 2019 , 1, 1	27
787	Phase transitions and chemical reactions of octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine under high pressure and high temperature 2019 , 9, 5825-5833	9
786	Crossover in the pressure evolution of elementary distortions in RFeO3 perovskites and its impact on their phase transition. 2019 , 99,	14
785	Velocity-Density Systematics of Fe-5wt%Si: Constraints on Si Content in the Earth's Inner Core. 2019 , 124, 3436-3447	12
784	Short NIIIN and CHIIIN Contacts in the Ambient and High-Pressure Polymorphs of a High-Nitrogen-Content Compound. 2019 , 19, 1832-1838	7
783	The fate of carbonate in oceanic crust subducted into earth's lower mantle. 2019 , 511, 213-222	17
782	Pressure-Induced Emission Enhancement and Piezochromism of Triphenylethylene. 2019 , 123, 6763-6767	23
781	Pressure-induced metallization in MoSe under different pressure conditions 2019 , 9, 5794-5803	16
780	Superconductivity in Topological Semimetal 🗉 aN at High Pressure*. 2019 , 36, 087401	7
779	Mechanisms of Pressure-Induced Phase Transitions by Real-Time Laue Diffraction. 2019 , 9, 672	3
778	Oxidation of High Yield Strength Metals Tungsten and Rhenium in High-Pressure High-Temperature Experiments of Carbon Dioxide and Carbonates. 2019 , 9, 676	7
777	The High-Pressure Structural Evolution of Olivine along the Forsterite E ayalite Join. 2019 , 9, 790	5
776	Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. 2019 , 100,	12
775	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. 2019 , 9, 15537	5
774	First-Principles Study on Crystal Configuration and Many-Body Cohesive Energy of Solid Argon. 2019 , 807, 135-140	
773	Pressure-induced electronic anomaly and multiband superconductivity in the doped topological insulator NbxBi2Se3. 2019 , 100,	3

772	Experimental observations of large changes in electron density distributions in E e. 2019 , 100,	2
771	High-Pressure Synthesis of Novel Polyhydrides of Zr and Hf with a Th4H15-Type Structure. 2019 , 123, 30059-30066	8
770	Pressure-Induced Polymerization of Monosodium Acetylide: A Radical Reaction Initiated Topochemically. 2019 , 123, 30746-30753	8
769	Real time study of grain enlargement in zirconium under room-temperature compression across the £ o p hase transition. 2019 , 9, 15712	3
768	Effect of pressure on structural and electronic properties of the noncentrosymmetric superconductor Rh2Mo3N. 2019 , 100,	2
767	Optical access to multi-anvil apparatus with ultrasonic method under high-pressure environment. 2019 , 90, 114502	1
766	High-Pressure Synthesis and Crystal Structure of MoC-Type Tungsten Nitride by Nitridation with Ammonium Chloride. 2019 , 58, 16379-16386	4
765	Parallel background subtraction in diamond anvil cells for high pressure X-ray data analysis. 2019 , 39, 628-639	1
764	Pressure-induced large enhancement of NBI temperature and electric polarization in the hexagonal multiferroic Lu0.5Sc0.5FeO3. 2019 , 100,	10
763	A High-Pressure Investigation of the Synthetic Analogue of Chalcomenite, CuSeO3ZH2O. 2019 , 9, 643	5
762	Abnormal physical behaviors of hafnium diboride under high pressure. 2019 , 115, 231903	8
761	Pressure-induced structural and electronic transitions of thiospinel FeS. 2019 , 31, 095401	2
760	High pressure structural investigations on hexagonal YInO3. 2019 , 39, 17-35	2
759	Pressure-induced dehydration of dioptase: A single-crystal X-ray diffraction and Raman spectroscopy study. 2019 , 351, 121-128	
758	Compression of Hydrogen-Bonded Layers in Imidazolidine-2-thione. 2019 , 19, 285-290	1
757	Observation of superconductivity in the pressurized Weyl-semimetal candidate TaIrTe4. 2019 , 99,	10
756	Reaction of Q to thermal metamorphism in parent bodies: Experimental simulation. 2019 , 54, 558-572	0
755	Record-High Superconductivity in Niobium-Titanium Alloy. 2019 , 31, e1807240	11

754	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe2. 2019 , 62, 1	8
753	The effect of high pressure on the structure and stability of sodium formate: Probed by in situ synchrotron X-ray diffraction technique. 2019 , 289, 67-70	1
752	Optical Pressure Sensor Based on the Emission and Excitation Band Width (fwhm) and Luminescence Shift of Ce-Doped Fluorapatite-High-Pressure Sensing. 2019 , 11, 4131-4138	55
751	Kinetic Control on the Depth Distribution of Superdeep Diamonds. 2019 , 46, 1984-1992	3
750	High-pressure single-crystal X-ray diffraction and synchrotron MBsbauer study of monoclinic ferrosilite. 2019 , 351, 129-140	4
749	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy. 2019 , 161, 88-92	28
748	High pressure synchrotron x-ray diffraction study of the Mn0.94Ti0.06CoGe alloy. 2019 , 554, 5-8	0
747	High-Pressure Structure and Properties of N,N-Dimethylformamide (DMF). 2019 , 19, 896-901	5
746	Three Topological Isomers of 1D- and 2D-Coordination Polymers Consisting of Tricopper Pyrazolate SBUs and 4,4?-Trimethylenedipyridine Linkers: Effect of Pressure on the Structure. 2019 , 19, 381-390	10
745	Pressure-Driven Reversible Switching between n- and p-Type Conduction in Chalcopyrite CuFeS. 2019 , 141, 505-510	19
744	From high pressure radial collapse to graphene ribbon formation in triple-wall carbon nanotubes. 2019 , 141, 568-579	18
743	High pressure study of nitrogen doped carbon nanotubes using Raman spectroscopy and synchrotron X-ray diffraction. 2020 , 13, 3008-3016	4
742	Raman spectroscopy on hydrogenated graphene under high pressure. 2020 , 156, 549-557	11
741	The elastic behavior of zeolitic frameworks: The case of MFI type zeolite under high-pressure methanol intrusion. 2020 , 345, 88-96	2
740	Experimental and theoretical study on elastic properties of crystalline alkali silicate hydrate. 2020 , 185, 108240	
739	Pressure-induced structural transitions and metallization in hollow ZnMn2O4 microspheres. 2020 , 818, 152881	3
738	Pressure and temperature optical sensors: luminescence of lanthanide-doped nanomaterials for contactless nanomanometry and nanothermometry. 2020 , 227-273	10
737	Single-crystal diffraction at the high-pressure Indo-Italian beamline Xpress at Elettra, Trieste. 2020 , 27, 222-229	16

736	Orpiment under compression: metavalent bonding at high pressure. 2020 , 22, 3352-3369	14
735	Pressure-induced band-gap closure and metallization in two-dimensional transition metal halide CdI2. 2020 , 18, 100532	5
734	High-pressure topological transport study of Bi2Se3 single crystal. 2020 , 507, 145052	3
733	High-pressure responses of alkali metal hydrogen carbonates, RbHCO3 and CsHCO3: Findings of new phases and unique compressional behavior. 2020 , 283, 121139	2
732	Experimental and Theoretical Study of SbPO under Compression. 2020 , 59, 287-307	9
731	High-Density COHx Network Glass. 2020 , 124, 107-114	O
730	Crossover from two-dimensional to three-dimensional superconducting states in bismuth-based cuprate superconductor. 2020 , 16, 295-300	6
729	High-pressure X-ray diffraction and MBsbauer spectroscopy study of Fe1.087Te. 2020 , 578, 411875	
728	Dynamics of a room temperature ionic liquid under applied pressure. 2020 , 530, 110628	7
727	High-pressure structural investigations on InPO4. 2020 , 282, 121065	2
726	Pressure-Driven Chemical Disorder in Glassy AsS up to 14.7 GPa, Postdensification Effects, and Applications in Materials Design. 2020 , 124, 430-442	9
725	Raman spectroscopy and lattice dynamical stability study of 2D ferromagnetic semiconductor Cr2Ge2Te6 under high pressure. 2020 , 819, 153368	9
724	High-pressure, high-temperature phase stability of iron-poor dolomite and the structures of dolomite-IIIc and dolomite-V. 2020 , 299, 106403	12
723	Elastic and magnetic properties of Fe3P up to core pressures: Phosphorus in the Earth's core. 2020 , 531, 115974	5
722	Temperature- and Rate-Dependent Pathways in Formation of Metastable Silicon Phases under Rapid Decompression. 2020 , 125, 155702	8
721	High pressure behaviour of tobermorite supergroup minerals: An in situ synchrotron X-ray powder diffraction study. 2020 , 138, 106249	1
720	Pressure-induced valence transition in the mixed-valence (Sm1/3Ca2/3)2.75C60 fulleride. 2020 , 4, 3521-3528	3
719	Pressure-induced structural transition and metallization in MnSe2. 2020 , 47, 1	

718 Crystal Growth and Investigation of High-Pressure Physical Properties of Fe2As. **2020**, 10, 790

717	Topaz, a Potential Volatile-Carrier in Cold Subduction Zone: Constraint from Synchrotron X-ray Diffraction and Raman Spectroscopy at High Temperature and High Pressure. 2020 , 10, 780	1
716	Sequential in situ Raman spectroscopy for observing dissociation behavior of filled-ice Ih of methane hydrate at high pressure. 2020 , 51, 2536-2542	4
715	High-pressure phase transition of methane hydrate in waterfhethanellmmonia system. 2020 , 1609, 012006	1
714	Pressure-Induced Polymerization of Polycyclic Arene-Perfluoroarene Cocrystals: Single Crystal X-ray Diffraction Studies, Reaction Kinetics, and Design of Columnar Hydrofluorocarbons. 2020 , 142, 18907-18923	19
713	Strength enhancement of nanocrystalline tungsten under high pressure. 2020 , 5, 058401	9
712	High-pressure X-ray diffraction study, optical properties, and applications of CaMoO4:Eu3+ nanosheets in white LEDs. 2020 , 846, 156473	4
711	Pressure-Engineered Optical and Charge Transport Properties of Mn/Cu Codoped CsPbCl Perovskite Nanocrystals Structural Progression. 2020 , 12, 48225-48236	6
710	Unconventional Superconductivity Induced by Suppressing an Iron-Selenium-Based Mott Insulator CsFe4☑Se4. 2020 , 10,	О
709	Mott Transition and Superconductivity in Quantum Spin Liquid Candidate NaYbSe2. 2020 , 37, 097404	12
708	Pressure-Dependent Behavior of Defect-Modulated Band Structure in Boron Arsenide. 2020 , 32, e2001942	9
707	High-pressure Raman scattering and x-ray diffraction studies of MgTa2O6. 2020 , 10, 065324	4
706	Giant negative thermal expansion across the first-order magnetoelastic transition in Hf0.86Ta0.14Fe2. 2020 , 845, 156310	3
705	High-pressure structural behavior and elastic properties of U3Si5: A combined synchrotron XRD and DFT study. 2020 , 540, 152373	2
704	Emerging Superconductivity and the Origin of Its Enhancement in Pressurized Topological Nodal-Line Semimetal SrAs3. 2020 , 6, 2000293	1
703	Evidence for Functionalized Carbon Nanothreads from Estacked, para-Disubstituted Benzenes. 2020 , 124, 25062-25070	8
702	2/ Postorthopyroxene LiScGeO, a New Dense High-Pressure Polymorph and Its Direct Transformation from the Structure. 2020 , 59, 17981-17991	
701	Pressure-Induced Phase Transition in Mn(Ta,Nb)O: An Experimental Investigation and First-Principle Study. 2020 , 59, 18122-18130	3

(2020-2020)

700	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb2O6. 2020 , 128, 215902	2
699	Pressure-Induced Phase Transitions in Danburite-Type Borosilicates. 2020 , 124, 26048-26061	2
698	Lanthanide Upconverted Luminescence for Simultaneous Contactless Optical Thermometry and Manometry-Sensing under Extreme Conditions of Pressure and Temperature. 2020 , 12, 40475-40485	38
697	Mechanical behavior and phase change of alkali-silica reaction products under hydrostatic compression. 2020 , 76, 674-682	9
696	Long-Range Ordered Amorphous Atomic Chains as Building Blocks of a Superconducting Quasi-One-Dimensional Crystal. 2020 , 32, e2002352	7
695	Synthesis and high-pressure studies of strontium diazenide by synchrotron X-ray diffraction and DFT calculations 2020 , 10, 26308-26312	
694	Unprecedented metallic BiS phase from the binary BiB family revisited under extreme conditions of high pressure and high temperature. 2020 , 318, 113984	
693	Vibrational Investigation of Pressure-Induced Phase Transitions of Hydroxycarbonate Malachite Cu2(CO3)(OH)2. 2020 , 10, 277	4
692	Fermi resonance: A new way to investigate the planarization of p-quaterphenyl under high pressure. 2020 , 756, 137829	
691	Electrical transport properties of Weyl semimetal WTe2 under high pressure. 2020 , 55, 14873-14882	6
690	Toward an international practical pressure scale: A proposal for an IPPS ruby gauge (IPPS-Ruby2020). 2020 , 40, 299-314	41
689	Raman and infrared spectra to monitor the phase transition of natural kyanite under static compression. 2020 , 51, 2102-2111	2
688	Structural and mechanical properties of magnesium aluminate nanoceramics under high pressure. 2020 , 117, 041901	1
687	New Pressure Stabilization Structure in Two-Dimensional PtSe. 2020 , 11, 7342-7349	5
686	Pressure-induced phase transition of 1,5-diamino-1-tetrazole (DAT) under high pressure 2020 , 10, 30069-300	7 <u>1</u> 6
685	Pressure-induced assemblies and structures of graphitic-carbon sheet encapsulated Au nanoparticles. 2020 , 12, 17462-17469	2
684	Optical conductivity of the type-II Weyl semimetal WTe2 under pressure. 2020 , 102,	2
683	Pressure-dependent Raman scattering of polycrystalline KNb1\(\mathbb{I}\)TaxO3 solid solutions. 2020 , 2, 1	0

682	In situ high-pressure x-ray diffraction of the two polymorphs of Sc2Ge2O7. 2020 , 10, 095209	1
681	Origin of the isostructural electronic states of the topological insulator Bi2Te3. 2020 , 102,	4
680	Structural Evolution of ⊞n2Se3 under Pressure. 2020 , 1622, 012027	
679	High-pressure behaviour and phase stability of Ca2B6O6(OH)10[2(H2O) (meyerhofferite). 2020, 47, 1	2
678	Spin Transitions and Compressibility of Fe7N3 and E-Fe4N: Implications for Iron Alloys in Terrestrial Planet Cores. 2020 , 125, e2020JB020660	2
677	Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO3. 2020, 5,	1
676	Nanomechanics of graphene oxide-bacteriophage based self-assembled porous composites. 2020 , 10, 15618	4
675	Experimental and theoretical evidence of dihydrogen bonds in lithium amidoborane. 2020 , 10, 17431	1
674	Experimental evidence for silica-enriched Earth's lower mantle with ferrous iron dominant bridgmanite. 2020 , 117, 27899-27905	7
673	Pressure dependence of the interlayer and intralayer E2g Raman-active modes of hexagonal BN up to the wurtzite phase transition. 2020 , 102,	5
672	Anharmonicity and Universal Response of Linear Carbon Chain Mechanical Properties under Hydrostatic Pressure. 2020 , 125, 105501	10
671	A high-pressure study of HfC and nano-crystalline TiC by X-ray diffraction and density functional theory calculations. 2020 , 34, 2050393	4
670	Pressure induced lattice expansion and phonon softening in layered ReS2. 2020 , 128, 085904	4
669	Using complementary microanalytical techniques to analyse diamond anvil cell experiments. 2020 , 891, 012015	
668	Experimental and theoretical confirmation of an orthorhombic phase transition in niobium at high pressure and temperature. 2020 , 1,	32
667	Homoconjugation in Light-Emitting Poly(phenylene methylene)s: Origin and Pressure-Enhanced Photoluminescence. 2020 , 53, 7519-7527	4
666	Pressure Induced Spin Crossover and Magnetic Properties of Multiferroic BaNbFeSiO. 2020 , 25,	0
665	Thermal Pressure in the Laser-Heated Diamond Anvil Cell: A Quantitative Study and Implications for the Density Versus Mineralogy Correlation of the Mantle. 2020 , 125, e2020JB020006	2

(2020-2020)

664	High-pressure behavior and phase stability of Na2B4O6(OH)2®H2O (kernite). 2020 , 103, 5291-5301	5
663	Piezochromism in the magnetic chalcogenide MnPS3. 2020 , 5,	4
662	Phase Stability of Natural Ni0.75Mg0.22Ca0.03CO3 Gaspeite Mineral at High Pressure and Temperature. 2020 , 124, 19781-19792	6
661	High-Pressure Raman Study of Fe(IO3)3: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. 2020 , 124, 21329-21337	10
660	Structural phase transitions in yttrium up to 183 GPa. 2020 , 102,	5
659	Pressure-stabilized divalent ozonide CaO and its impact on Earth's oxygen cycles. 2020 , 11, 4702	3
658	Experimental evidence for orthorhombic Fddd crystal structure in elemental yttrium above 100 GPa. 2020 , 102,	3
657	X-ray diffraction and Raman spectra of merrillite at high pressures. 2020 , 40, 411-422	2
656	Band gap crossover and insulatorthetal transition in the compressed layered CrPS4. 2020 , 5,	10
655	Raman studies of hydrogen trapped in AsOI2H at high pressure and low temperature. 2020 , 153, 054501	1
654	Phase Stability and Vibrational Properties of Iron-Bearing Carbonates at High Pressure. 2020 , 10, 1142	5
653	A Combinatory Package for Diamond Anvil Cell Experiments. 2020 , 10, 1116	2
652	Structural Study of EAlOOH Up to 29 GPa. 2020 , 10, 1055	3
651	Effect of Ammonia on Methane Hydrate Stability under High-Pressure and High-Temperature Conditions. 2020 , 124, 10890-10896	2
650	Elevating the magnetic exchange coupling in the compressed antiferromagnetic axion insulator candidate EuIn2As2. 2020 , 102,	5
649	Tuning the structure of the skyrmion lattice system Cu2OSeO3 under pressure. 2020 , 102,	O
648	Compression of sodium-filled and empty open-framework Si24 under quasihydrostatic and nonhydrostatic conditions. 2020 , 102,	1
647	Anomalous mechanical materials squeezing three-dimensional volume compressibility into one dimension. 2020 , 11, 5593	6

646	Stability of methane hydrate at high-pressure and high-temperature of up to 40 GPa and 573 K. 2020 , 1609, 012007	O
645	Wardite (NaAl3(PO4)2(OH)4?2H2O) at High Pressure: Compressional Behavior and Structure Evolution. 2020 , 10, 877	
644	Structural Modifications of Single-Crystal Aragonite CaCO3 Beginning at ~15 GPa: In Situ Vibrational Spectroscopy and X-Ray Diffraction Evidence. 2020 , 10, 924	2
643	Equation of state of LiNioIbMn1IbO4 at high pressure. 2020 , 321, 114045	1
642	Pressure induced phase transitions in BaZr(PO4)2 studied using x-ray diffraction, Raman spectroscopy, and first principles calculations. 2020 , 127, 135902	1
641	Structural Phase Transition in Antiferromagnet CeCoSi Compared to Isostructural LaCoSi and PrCoSi. 2020 , 89, 054702	3
640	Properties and phase diagram of (H2S)2H2. 2020 , 101,	8
639	Carbon Redox Chemistry. 2020 , 67-75	
638	High pressure and elastic properties of a guanidinium-formate hybrid perovskite. 2020 , 49, 7228-7233	2
637	The mechanical response of glassy carbon recovered from high pressure. 2020 , 127, 145105	4
636	Raman spectroscopic constraints on compression and metastability of the amphibole tremolite at high pressures and temperatures. 2020 , 47, 1	1
635	Optical signatures of phase transitions and structural modulation in elemental tellurium under pressure. 2020 , 101,	1
634	Pressure-induced isostructural phase transition in TiAlC: experimental and theoretical investigation. 2020 , 22, 13136-13142	1
633	Pressure-induced tuning of quantum spin liquid state in ZnCu3(OH)6Cl2. 2020 , 101,	O
632	Compression behavior of dense H2⊞e mixtures up to 160 GPa. 2020 , 101,	1
631	Structural and vibrational behavior of cubic Cu1.80(3)Se cuprous selenide, berzelianite, under compression. 2020 , 830, 154646	O
630	Pressure-induced instability of the fergusonite phase of EuNbO4 studied by in situ Raman spectroscopy, x-ray diffraction, and photoluminescence spectroscopy. 2020 , 127, 175905	6
629	Polymorphism of feldspars above 10 GPa. 2020 , 11, 2721	6

628	High-Pressure Raman and Infrared Spectroscopic Study of Prehnite. 2020, 10, 312	3
627	Pressure-Driven Eu2+-Doped BaLi2Al2Si2N6: A New Color Tunable Narrow-Band Emission Phosphor for Spectroscopy and Pressure Sensor Applications. 2020 , 30, 2001384	21
626	Temperature-dependent kinetic pathways featuring distinctive thermal-activation mechanisms in structural evolution of ice VII. 2020 , 117, 15437-15442	7
625	Pressure-Induced Topological and Structural Phase Transitions in an Antiferromagnetic Topological Insulator. 2020 , 37, 066401	16
624	Synthesis and characterization of Pt(Cu0.67Sn0.33). 2020 , 105, 106282	1
623	Consecutive and Extensive Transition of Luminescent Color of an Organic Solid Material by Applying High Pressure. 2020 , 124, 14911-14917	3
622	Unique 2DBD Structure Transformations in Trichalcogenide CrSiTe3 under High Pressure. 2020 , 124, 15600-15606	5
621	Pressure-induced superconductivity and topological phase transitions in the topological nodal-line semimetal SrAs3. 2020 , 5,	11
620	An x-ray study of palladium hydrides up to 100 GPa: Synthesis and isotopic effects. 2020 , 127, 075901	14
619	Pressure-driven Lifshitz transition in type-II Dirac semimetal NiTe2. 2020 , 101,	16
619	Pressure-driven Lifshitz transition in type-II Dirac semimetal NiTe2. 2020, 101, Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020, 116, 101901	16 6
	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020 ,	
618	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020 , 116, 101901	6
618	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020 , 116, 101901 Large negative linear compressibility of a porous molecular co-crystal. 2020 , 56, 4324-4327 Dualism of the 4f electrons and its relation to high-temperature antiferromagnetism in the	6 7
618 617 616	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020, 116, 101901 Large negative linear compressibility of a porous molecular co-crystal. 2020, 56, 4324-4327 Dualism of the 4f electrons and its relation to high-temperature antiferromagnetism in the heavy-fermion compound YbCoC2. 2020, 101,	6 7 0
618 617 616 615	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020, 116, 101901 Large negative linear compressibility of a porous molecular co-crystal. 2020, 56, 4324-4327 Dualism of the 4f electrons and its relation to high-temperature antiferromagnetism in the heavy-fermion compound YbCoC2. 2020, 101, Tuning dimensionality in van-der-Waals antiferromagnetic Mott insulators TMPS. 2020, 32, 124003 Achieving Room-Temperature Charge Density Wave in Transition Metal Dichalcogenide 1T-VSe2.	6 7 0
618 617 616 615	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. 2020, 116, 101901 Large negative linear compressibility of a porous molecular co-crystal. 2020, 56, 4324-4327 Dualism of the 4f electrons and its relation to high-temperature antiferromagnetism in the heavy-fermion compound YbCoC2. 2020, 101, Tuning dimensionality in van-der-Waals antiferromagnetic Mott insulators TMPS. 2020, 32, 124003 Achieving Room-Temperature Charge Density Wave in Transition Metal Dichalcogenide 1T-VSe2. 2020, 6, 1901427 Pressure-Induced Multidimensional Assembly and Sintering of CuInS2 Nanoparticles into Lamellar	6 7 0 16

610	Elasticity of single-crystal Fe-enriched diopside at high-pressure conditions: Implications for the origin of upper mantle low-velocity zones. 2020 , 105, 363-374	3
609	Large red-shift of luminescence from BaCN2:Eu2+ red phosphor under high pressure. 2020 , 13, 042009	4
608	Deep Hydrocarbon Cycle. 2020 , 329-339	1
607	Two Linear Regimes in Optical Conductivity of a Type-I Weyl Semimetal: The Case of Elemental Tellurium. 2020 , 124, 136402	7
606	High-pressure, high temperature synthesis of a mesoporous ⊞quartz/bismuth nanowire composite. 2020 , 101, 106125	O
605	The Phase Transition and Dehydration in Epsomite under High Temperature and High Pressure. 2020 , 10, 75	6
604	Thermal Analysis, Compressibility, and Decomposition of Synthetic Bastn&ite-(La) to Lanthanum Oxyfluoride. 2020 , 10, 212	0
603	Effects of composition and pressure on electronic states of iron in bridgmanite. 2020 , 105, 1030-1039	5
602	The electronic structure, surface properties, and NO decomposition of mechanochemically synthesised LaMnO. 2020 , 22, 18774-18787	2
601	Highly tunable properties in pressure-treated two-dimensional Dion-Jacobson perovskites. 2020 , 117, 16121-16126	18
600	Correlation between Fermi surface reconstruction and superconductivity in pressurized FeTe0.55Se0.45. 2020 , 101,	
599	Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic GdFeO3: Evidence from Raman scattering. 2020 , 102,	6
598	Characterization and Decomposition of the Natural van der Waals SnSbTe under Compression. 2020 , 59, 9900-9918	11
597	CdSe-Based Quantum Dots as In Situ Pressure and Temperature Non-intrusive Sensors in Elastohydrodynamic Contacts. 2020 , 68, 1	2
596	Structural and Lattice-Dynamical Properties of TbO under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. 2020 , 59, 9648-9666	9
595	Magnetic Network on Demand: Pressure Tunes Square Lattice Coordination Polymers Based on {[Cu(pyrazine)]}. 2020 , 59, 10091-10098	4
594	Thermal stability and compressibility of bastnaesite. 2020 , 47, 1	1
593	Spin Transition of Iron in E(Al,Fe)OOH Induces Thermal Anomalies in Earth's Lower Mantle. 2020 , 47, e2020GL087036	9

592	Solid-State Dynamics and High-Pressure Studies of a Supramolecular Spiral Gear. 2020 , 26, 5061-5069	5
591	Developments of nano-polycrystalline diamond anvil cells for neutron diffraction experiments. 2020 , 40, 184-193	12
590	Facile diamond synthesis from lower diamondoids. 2020 , 6, eaay9405	9
589	Observation of superconductivity accompanying the pressure-induced structural phase transition in LaSb. 2020 , 101,	2
588	Raman spectroscopy and phase stability of EN2. 2020 , 310, 113843	2
587	Elastic properties of single crystal Bi12SiO20 as afunction of pressure and temperature and acousticattenuation effects in Bi12MO20 (M = Si, Ge and Ti). 2020 ,	6
586	High pressure anomalies in exfoliated MoSe 2: resonance Raman and x-ray diffraction studies. 2020 , 7, 025902	7
585	Thermal conductivity of dense hcp iron: Direct measurements using laser heated diamond anvil cell. 2020 , 11, 1755-1761	9
584	Study on the High-Pressure Behavior of Goethite up to 32 GPa Using X-Ray Diffraction, Raman, and Electrical Impedance Spectroscopy. 2020 , 10, 99	2
583	Pressure-Promoted Solvation of Resorcinol. 2020 , 20, 3112-3118	4
582	Experimental and simulation study of the high-pressure behavior of squalane and poly-blefins. 2020 , 152, 074504	7
581	Sequential Spin State Transition and Intermetallic Charge Transfer in PbCoO. 2020 , 142, 5731-5741	20
580	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. 2020 , 101,	8
579	Annealing of ion tracks in apatite under pressure characterized in situ by small angle x-ray scattering. 2020 , 10, 1367	2
578	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. 2020 , 101,	14
577	Structural interpretation of the energetic performances of a pure silica LTA-type zeolite. 2020 , 22, 5178-5187	4
576	Nanoarchitecture through Strained Molecules: Cubane-Derived Scaffolds and the Smallest Carbon Nanothreads. 2020 , 142, 17944-17955	16
575	Highlighting the impact of shear strain on the SiO2 glass structure: From experiments to atomistic simulations. 2020 , 533, 119898	7

574	Selected Negative Linear Compressibilities in the Metal-Organic Framework of [Cu(4,4'-bpy)(HO)][SiF. 2020 , 59, 1715-1722	10
573	Pressure-induced anomalous behavior of thaumasite crystal. 2020 , 103, 3763-3775	2
572	Optical Vacuum Sensor Based on Lanthanide Upconversion Luminescence Thermometry as a Tool for Ultralow Pressure Sensing. 2020 , 5, 1901091	60
571	Pressure-Induced Superconductivity in Topological Semimetal Candidate TaTe4. 2020 , 6, 1901260	3
570	Enhanced Structural Stability of Sb2Se3 via Pressure-Induced Alloying and Amorphization. 2020 , 124, 3421-3428	4
569	High pressure photoluminescence properties and structural stability of Eu doped AlN nanowires synthesized via a direct nitridation strategy. 2020 , 823, 153804	4
568	Crystallography of low Z material at ultrahigh pressure: Case study on solid hydrogen. 2020 , 5, 038401	11
567	Raman spectroscopy and X-ray diffraction of pressure-induced reversible structure change in K2OsO2(OH)4. 2020 , 51, 1240-1247	1
566	A high-pressure study of Cr3C2 by XRD and DFT. 2020 , 29, 086401	1
565	Structure and Behavior of the Ni End-Member Schreibersite Ni3P under Compression to 50 GPa. 2020 , 10, 306	2
564	Polyamorphism of GeO2 Glass at High Pressure. 2020 , 257, 2000052	3
563	Unconventional high-pressure Raman spectroscopy study of kinetic and peak pressure effects in plagioclase feldspars. 2020 , 47, 1	4
562	Broadband Emission Enhancement Induced by Self-Trapped Excited States in One-Dimensional EAPbI3 Perovskite under Pressure. 2020 , 124, 8984-8991	8
561	First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO3)3. 2020 , 124, 8669-8679	11
560	Combined Temperature and Pressure Sensing Using Luminescent NaBiF4:Yb,Er Nanoparticles. 2020 , 3, 4209-4217	38
559	Viscosity measurement from microscale convection at high pressure and temperature. 2020 , 101,	1
558	Pressure-induced phase transitions in the topological crystalline insulator SnTe and its comparison with semiconducting SnSe: Raman and first-principles studies. 2020 , 101,	8
557	Crystal structures and electronic properties of Sn3N4 polymorphs synthesized via high-pressure nitridation of tin. 2020 , 22, 3531-3538	

(2021-2020)

556	Raman and X-ray diffraction study of pressure-induced phase transition in synthetic MgTiO. 2020 , 10, 6278	Ο
555	A comparative study of high-pressure behaviors of the two polymorphs of HoGeO 2020 , 10, 10540-10545	1
554	High-silica mordenite as scaffold for phenylacetylene polymerization: In situ high pressure investigation. 2020 , 300, 110163	3
553	High-Pressure Behavior of Nickel Sulfate Monohydrate: Isothermal Compressibility, Structural Polymorphism, and Transition Pathway. 2020 , 59, 6255-6266	12
552	Persistent insulating state at megabar pressures in strongly spin-orbit coupled Sr2IrO4. 2020, 101,	9
551	High-pressure structural investigation on lead-free piezoelectric 0.5Ba(Ti0.8Zr0.2)O3´-´0.5(Ba0.7Ca0.3)TiO3. 2020 , 103, 5259-5269	2
550	Pressure-Induced Dimerization of C60 at Room Temperature as Revealed by an In Situ Spectroscopy Study Using an Infrared Laser. 2020 , 10, 182	1
549	Temperature measurement in double-sided laser-heated diamond anvil cell and reaction of carbon. 2021 , 95, 621-628	1
548	The effect of nitrogen on the compressibility and conductivity of iron at high pressure. 2021 , 12, 983-989	6
547	High-pressure investigations on the isostructural phase transition and metallization in realgar with diamond anvil cells. 2021 , 12, 1031-1037	5
546	Deep mantle hydrogen in the pyrite-type FeO2HeO2H system. 2021 , 12, 975-981	3
545	Chemical transformations of n-hexane and cyclohexane under the upper mantle conditions. 2021 , 12, 1010-1017	4
544	Experimental and theoretical study of dense YBO3 and the influence of non-hydrostaticity. 2021 , 850, 156562	5
543	Negative area compressibility in silver oxalate. 2021 , 56, 269-277	3
542	High-pressure phase transformation of carbonate malachite Cu2(CO3)(OH)2 driven by [CuO6] regularization and [CO3] rotation. 2021 , 12, 965-973	2
541	Thermal and compressional behavior of the natural borate kurnakovite, MgB3O3(OH)5⑮H2O. 2021 , 266, 121094	3
540	Hard, transparent, sp3-containing 2D phase formed from few-layer graphene under compression. 2021 , 173, 744-757	15
539	Suppressed Lattice Disorder for Large Emission Enhancement and Structural Robustness in Hybrid Lead Iodide Perovskite Discovered by High-Pressure Isotope Effect. 2021 , 31, 2009131	13

538	High-pressure study of the structural phase transition in Cu1.875Te. 2021 , 186, 110020	1
537	The effect of iron on the sound velocities of FAlOOH up to 135 GPa. 2021 , 12, 937-946	6
536	Structural and elastic properties of TllnSe2 at high pressure. 2021 , 111, 106343	5
535	High Pressure Effect on Structural and Electrochemical Properties of Anionic Redox-Based Lithium Transition Metal Oxides. 2021 , 4, 164-181	6
534	Quantifying dynamic pressure and temperature conditions on fault asperities during earthquake slip. 2021 , 555, 116701	1
533	High-pressure and low-temperature structural study of claudetite I, a monoclinic layered As2O3 polymorph. 2021 , 23, 638-644	1
532	Contrasting physical properties of the trilayer nickelates Nd4Ni3O10 and Nd4Ni3O8. 2021 , 64, 1	7
531	Crystal Structure and Non-Hydrostatic Stress-Induced Phase Transition of Urotropine Under High Pressure. 2021 , 27, 1094-1102	3
530	Raman resonance tuning of quaterthiophene in filled carbon nanotubes at high pressures. 2021 , 173, 163-173	7
529	Conduction transition and electronic conductivity enhancement of cesium azide by pressure-directed grain boundary engineering. 2021 , 9, 4764-4770	2
528	Spectroscopic evidence for the Fe 3+ spin transition in iron bearing FAlOOH at high pressure. 2021	1
527	Polyamorphism in a solute-lean Alte metallic glass. 2021 , 129, 025108	1
526	Self-healing ferroelastic metalBrganic framework sensing guests, pressure and chemical environment.	3
525	Pressure-induced superconductivity in trigonal layered PtBi2 with triply degenerate point fermions. 2021 , 103,	2
524	An X-ray diffraction and Raman spectroscopic study of the high-pressure behavior of gasple (Ni0.73Mg0.27CO3). 2021 , 48, 1	
523	High Pressure Behavior of the Hybrid Material AlPO4-5+Azobenzene: An In-situ Synchrotron X-ray Diffraction Study. 2021 , 111-124	
522	Quenchable amorphous glass-like material from VF. 2021 , 50, 3005-3010	1
521	Pressure-dependent modifications in the optical and electronic properties of Fe(IO3)3: the role of Fe 3d and I 5p lonepair electrons.	1

520	Structural, vibrational and electronic properties of #GaS under compression. 2021 , 23, 6841-6862	3
519	Y2(Ge,Si)O5:Pr phosphors: multimodal temperature and pressure sensors shaped by bandgap management.	1
518	Amino acid encapsulation in zeolite MOR: Effect of spatial confinement. 2021 , 23, 20541-20552	
517	Optical pressure and temperature sensing properties of Nd:YTaO. 2021 , 23, 23380-23388	O
516	Synthesis of Materials Under High Pressure. 2021 , 153-195	
515	Pressure-induced Jahn-Teller switch in the homoleptic hybrid perovskite [(CH)NH]Cu(HCOO): orbital reordering by unconventional degrees of freedom. 2021 , 9, 8051-8056	1
514	High-pressure structural phase transition and metallization in Ga2S3 under non-hydrostatic and hydrostatic conditions up to 36.4 GPa. 2021 , 9, 2912-2918	10
513	Optical pressure sensing in vacuum and high-pressure ranges using lanthanide-based luminescent thermometer. 2021 , 9, 4643-4651	16
512	Crystal and Electronic Structures of MoSi-Type CrGe Synthesized under High Pressure. 2021 , 60, 1767-1772	2
511	Phase transition and chemical reactivity of 1H-tetrazole under high pressure up to 100 GPa. 2021 , 23, 19503-19510	1
510	Thermal equation of state of phase egg (AlSiO3OH): implications for hydrous phases in the deep earth. 2021 , 176, 1	1
509	Pressure-engineered optical properties and emergent superconductivity in chalcopyrite semiconductor ZnSiP2. 2021 , 13,	2
508	Characterization of the structure and photoluminescence properties of tetragonal structure La0.995Pr0.005VO4 phosphor via a post heat treatment. 2021 , 44, 1	
507	Rethinking the Design of Ionic Conductors Using MeyerNeldelConductivity Plot. 2021, 11, 2100325	8
506	Emergent Magnetic Phases in Pressure-Tuned van der Waals Antiferromagnet FePS3. 2021, 11,	4
505	Iron force constants of bridgmanite at high pressure: Implications for iron isotope fractionation in the deep mantle. 2021 , 294, 215-231	O
504	Reemergence of superconductivity in pressurized quasi-one-dimensional superconductor K2Mo3As3. 2021 , 5,	4
503	Nitriding synthesis and structural change of phosphorus nitrides at high pressures. 2021 , 52, 1064-1072	2

502	Structure-property relationships of molecular shape and orientation with compression and expansion of xylitol. 2021 , 77, 205-210	1
501	Macroscale Superlubricity and Polymorphism of Long-Chain -Alcohols. 2021 , 13, 9239-9251	4
500	Pressure-induced structural transition and huge enhancement of superconducting properties of single-crystal Fe0.99Ni0.01Se0.5Te0.5 unconventional superconductor. 2021 , 36, 1624-1636	1
499	Phonons of hexagonal BN under pressure: Effects of isotopic composition. 2021 , 103,	1
498	Structural and vibrational study of Zn(IO3)2 combining high-pressure experiments and density-functional theory. 2021 , 103,	5
497	Pressure-Induced Emergence of Visible Luminescence in Lead Free Halide Perovskite Cs3Bi2Br9: Effect of Structural Distortion. 2021 , 125, 3432-3440	1
496	The effect of interstitial-site nitrogen on structural, elastic, and magnetic properties of face-center cubic Co. 2021 , 129, 105901	1
495	High-Pressure Neutron Diffraction Study of the Crystal and Magnetic Structure of Materials at the Pulsed Reactor IBR-2: Current Opportunities and Prospects. 2021 , 66, 303-313	4
494	Phase relations and thermoelasticity of magnesium silicide at high pressure and temperature. 2021 , 154, 144701	2
493	From Semiconducting to Metallic: JahnITeller-Induced Phase Transformation in Skyrmion Host GaV4S8. 2021 , 125, 5771-5780	3
492	Ferromagnetism in two-dimensional Fe3GeTe2; Tunability by hydrostatic pressure. 2021 , 103,	7
491	Stability and band gap engineering of silica-confined lead halide perovskite nanocrystals under high pressure. 2021 , 12, 957-963	0
490	Synthesis of superconducting SbS and SbS2 antimony chalcogenide compounds at high pressures. 2021 , 103,	0
489	Raman signatures of the distortion and stability of MgCO3 to 75 GPa. 2021 , 106, 367-373	3
488	Calibration of Manganin pressure gauge for diamond-anvil cells. 2021 , 92, 033905	1
487	Interferometric measurements of refractive index and dispersion at high pressure. 2021 , 11, 5610	4
486	Intercalation of Water in Kaolinite (Al2Si2O5(OH)4) at Subduction Zone Conditions: Insights from Raman Spectroscopy. 2021 , 5, 834-848	4
485	X-ray Free Electron Laser-Induced Synthesis of pron Nitride at High Pressures. 2021 , 12, 3246-3252	3

484	Resilient three-dimensional ordered architectures assembled from nanoparticles by DNA. 2021, 7,	14
483	High-pressure and high-temperature vibrational properties and anharmonicity of carbonate minerals up to 6 GPa and 500 °C by Raman spectroscopy. 2021 , 106, 581-598	4
482	Pressure Controls the Structure and Nonlinear Optical Properties of Piezochromic CdTeMoO6. 2021 , 33, 2929-2936	5
481	Normal and anomalous self-healing mechanism of crystalline calcium silicate hydrates. 2021 , 142, 106356	4
480	Mechanism of Pressure-Induced Phase Transitions and Structure P roperty Relations in Methylhydrazinium Manganese Hypophosphite Perovskites. 2021 , 125, 10121-10129	4
479	Origin of the Giant Enhanced Raman Scattering by Sulfur Chains Encapsulated inside Single-Wall Carbon Nanotubes. 2021 , 15, 8574-8582	3
478	Diamond formation from methane hydrate under the internal conditions of giant icy planets. 2021 , 11, 8165	4
477	High-pressure stability of bcc-vanadium and phase transition to a rhombohedral structure at 200 GPa. 2021 , 129, 135902	2
476	Optical properties of Nd3+ ions doped GdTaO4 for pressure and temperature sensing. 2021 ,	2
475	Calibration of ruby (Cr3+:Al2O3) and Sm2+:SrFCl luminescence lines from the melting of mercury: constraints on the initial slopes. 2021 , 41, 175-183	Ο
474	Pressure-Induced Anomalous Emission Behaviors of MnS/ZnS Quantum Dots. 2021 , 125, 9281-9286	1
473	Polymorphism of praseodymium orthovanadate under high pressure. 2021 , 103,	O
472	Synthesis of ternary compound in H-S-Se system at high pressures.	O
471	Predicting the Optical Pressure Sensitivity of 2E -IAA2 Spin-Flip Transition in Cr3+-Doped Crystals. 2021 , 33, 3379-3385	11
470	Persistent Negative Compressibility Coupled to Optical Modulation in Empty-Perovskite TiOF2. 2021 , 125, 8869-8875	2
469	Evidence of hydrogen-helium immiscibility at Jupiter-interior conditions. 2021 , 593, 517-521	12
468	Structural transitions of 4:1 methanol@thanol mixture and silicone oil under high pressure. 2021 , 6, 038402	7
467	Structural Stability of l-Cystine under Extreme Conditions. 2021 , 5, 1525-1534	2

466	High-pressure and environment effects in selenourea and its labile crystal field around molecules. 2021 , 77, 449-455	1
465	Pressure and temperature dependence of luminescence from Tm3+ ions doped in GdYTaO4.	
464	SERS Selective Enhancement on Monolayer MoS Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. 2021 , 13, 26551-26560	5
463	High Pressure in Boron Nitride Nanotubes for Kirigami Nanoribbon Elaboration. 2021 , 125, 11440-11453	1
462	Pressure-induced disordering of site occupation in ironBickel nitrides. 2021 , 6, 038401	4
461	Squeezing Out the Catalysts: A Sustainable Approach to Disulfide Bond Exchange in Aryl Disulfides. 2021 , 9, 7171-7178	2
460	In situ synchrotron diffraction of pressure-induced phase transition in DyPO4 under variable hydrostaticity. 2021 , 103,	1
459	Single-Crystal Elasticity of MgSiO3 Bridgmanite to Mid-Lower Mantle Pressure. 2021 , 126, e2020JB020967	2
458	Atomic-scale mixing between MgO and H2O in the deep interiors of water-rich planets. 2021 , 5, 815-821	2
457	Structural and Transport Properties of 1T-VSe2 Single Crystal Under High Pressures. 2021 , 8,	4
456	Elucidating the Phase Transformation and Metallization Behavior of Zinc Phosphide under High Pressure. 2021 , 60, 10315-10322	О
455	High-Pressure Raman Spectroscopy and X-ray Diffraction Study on Scottyite, BaCu2Si2O7. 2021 , 11, 608	O
454	Establishing gold and platinum standards to 1 terapascal using shockless compression. 2021 , 372, 1063-1068	18
453	Pressure-tuned colossal magnetoresistance effect in n-type CdCr2Se4. 2021 , 118, 262407	O
452	Semiconductor-to-metal transition in HfSe2 under high pressure. 2021 , 867, 158923	5
451	Pressure-induced anomalous insulating behavior in frustrated iridate La3Ir3O11 *. 2021 , 30, 067402	
450	Crystal Structure Evolution of CaSiO3 Polymorphs at Earth Mantle Pressures. 2021, 11, 652	0
449	Crystal Structure Evolution of Slawsonite SrAl2Si2O8 and Paracelsian BaAl2Si2O8 upon Compression and Decompression. 2021 , 125, 13014-13023	1

448	Unusual competition of superconductivity and charge-density-wave state in a compressed topological kagome metal. 2021 , 12, 3645	36
447	Mixed-valence state and structure changes of EuH (x = 2 and 2 . 2021 , 865, 158637	O
446	Pressure influence on the valence and magnetic state of Yb ions in noncentrosymmetric heavy-fermion YbNiC2. 2021 , 103,	О
445	Pressure-induced reemergence of superconductivity in the topological kagome metal CsV3Sb5. 2021 , 103,	38
444	High-pressure behavior of heteroepitaxial coreShell particles made of Prussian blue analogs. 2021 , 129, 235106	1
443	The pressure-induced structural phase transition of fluorene studied by Raman spectroscopy. 2021 , 115, 103272	
442	Phase transition and high-pressure behavior of ulexite, a potential aggregate in radiation-shielding concretes. 2021 , 291, 123188	1
441	Pressure-induced structural transitions between successional superconducting phases in GeTe. 2021 , 33,	2
440	Superconductivity and electron-phonon interaction in SrxBi2Se3 under pressure.	0
439	Deep hydrocarbon cycle. 2021 , 21, 289-305	
439	Deep hydrocarbon cycle. 2021 , 21, 289-305 Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and first-principles theory. 2021 , 104,	3
	Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and	3
438	Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and first-principles theory. 2021 , 104, Thermal conductivity of single-crystal brucite at high pressures with implications for thermal	3 0
438	Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and first-principles theory. 2021, 104, Thermal conductivity of single-crystal brucite at high pressures with implications for thermal anomaly in the shallow lower mantle. 2021, Structural and electrical transport properties of charge density wave material LaAgSb2 under high	
438 437 436	Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and first-principles theory. 2021, 104, Thermal conductivity of single-crystal brucite at high pressures with implications for thermal anomaly in the shallow lower mantle. 2021, Structural and electrical transport properties of charge density wave material LaAgSb2 under high pressure*. 2021, 30, 076201	0
438 437 436 435	Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and first-principles theory. 2021, 104, Thermal conductivity of single-crystal brucite at high pressures with implications for thermal anomaly in the shallow lower mantle. 2021, Structural and electrical transport properties of charge density wave material LaAgSb2 under high pressure*. 2021, 30, 076201 Tuning Magnetic and Transport Properties in Quasi-2D (Mn1\(\text{N} \) Nix)2P2S6 Single Crystals. 2021, 2, 284-298	0
438 437 436 435 434	Pressure-induced 1T to 3R structural phase transition in metallic VSe2: X-ray diffraction and first-principles theory. 2021, 104, Thermal conductivity of single-crystal brucite at high pressures with implications for thermal anomaly in the shallow lower mantle. 2021, Structural and electrical transport properties of charge density wave material LaAgSb2 under high pressure*. 2021, 30, 076201 Tuning Magnetic and Transport Properties in Quasi-2D (Mn1\(\text{N} \text{Nix} \))2P2S6 Single Crystals. 2021, 2, 284-298 Retainable Superconductivity and Structural Transition in 1T-TaSe Under High Pressure. 2021, 60, 11385-113	0 6 93 1

430	Synthesis and compression study of orthorhombic Fe7(C, Si)3: a possible constituent of the Earth core. 2021 , 41, 290-305	О
429	High pressure structural evolution of cubic solid solution YbInO3. 2021 , 130, 035902	2
428	Pressure-induced high-temperature superconductivity retained without pressure in FeSe single crystals. 2021 , 118,	8
427	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO3)2. 2021 , 125, 17448-17461	O
426	Structure of disordered materials under ambient to extreme conditions revealed by synchrotron x-ray diffraction techniques at SPring-8-recent instrumentation and synergic collaboration with modelling and topological analyses. 2021 , 33,	11
425	Powder conductor for pressure calibration applied to large volume press under high pressure. 2021 , 92, 073903	
424	Pressure-induced structural phase transition in corundum-related class Cu3TeO6. 2021 , 41, 318-327	O
423	Pressure-induced metallic phase transition in gallium arsenide up to 24.3 GPa under hydrostatic conditions. 2150460	2
422	High-pressure Raman study of osmium and rhenium up to 200 GPa and pressure dependent elastic shear modulus C 44.	
421	Insertion of Oxygen and Nitrogen in the Siliceous Zeolite TON at High Pressure. 2021 , 125, 19517-19524	
420	Stepwise Stress-Induced Transformations of Metal-Organic Polyhedral Cluster-Based Assemblies: Where Conformational and Supramolecular Features Meet. 2021 , 27, 13757-13764	0
419	Equation of state and electrical transport properties of mixture of Li1.2Mn0.54Co0.13Ni0.13O2 and LiNi0.87Co0.09Mn0.03Al0.01O2 at high pressure. 2021 , 35,	
418	3D characterization of individual grains of coexisting high-pressure H2O ice phases by time-domain Brillouin scattering. 2021 , 130, 053104	O
417	Realization of an Ideal Cairo Tessellation in Nickel Diazenide NiN: High-Pressure Route to Pentagonal 2D Materials. 2021 ,	13
416	X-ray spectroscopic and first-principles investigation of lead tungstate under pressure. 2021 , 104,	O
415	Structural Stability and Properties of Marokite-Type EMnO. 2021 , 60, 13440-13452	O
414	Revealing pressure-driven structural transitions in the hybrid improper ferroelectric Sr3Sn2O7. 2021 , 104,	0
413	Pressure-tuning structural and electronic transitions in semimetal CoSb. 2021 , 104,	1

The coupling of lattice-strain and phonon induced order-disorder phase transition in layered LiGaO2. 2021, 407, 127464 TPRESSURE-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal TST/SIS. 2021, 127, 076402 Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal TST/SIS. 2021, 10, 13278-13283 Distriction of Structure of UTe-Type Tungsten Nitride Synthesized under High Pressure. Distriction of Such 1-0-mm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 4, 653-663 Distriction of Such 1-0-mm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 4, 653-663 Distriction of Such 1-0-mm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 4, 653-663 Distriction of Such 1-0-mm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 440, 653-663 Distriction of Such 1-0-mm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 440, 653-663 Distriction of Such 1-0-mm graphene nanoribbons with atomical seminary seminary squashed carbon nanotubes. 2021, 26, 1177116 Distriction of Pressure-induced atomic packing change in Pd37Ni37526 metallic glass. 2021, 216, 1177116 Distriction of Pressure-induced Sp8407 Bifunctional Sensor of Temperature and Pressure-Bilghly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. 2101507 Distriction of Pressure-induced phase transition and phonon softening in httpuc, 55c0.4FeO3. 2021, 104, 104, 104, 104, 104, 104, 104, 10	412	Lattice dynamics study of (Gd1⊠Ybx)2O3(x=0.11) at high pressure. 2021 , 871, 159525	O
2rsis. 2021, 127, 076402 409 Crystal and Electronic Structure of UTe-Type Tungsten Nitride Synthesized under High Pressure. 2021, 60, 13278-13283 408 Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 4, 653-663 407 Abnormal Phase Transition and Band Renormalization of Guanidinium-Based Organic-Inorganic Hybrid Perovskite. 2021, 13, 44964-44971 406 Pressure-induced atomic packing change in Pd37Ni37526 metallic glass. 2021, 216, 117116 407 Phase transformations of zircon-type DyVO4 at high pressures up to 36.4 GPa: X-ray diffraction measurements. 2021, 875, 159926 408 Tm2+ Activated SrB4O7 Bifunctional Sensor of Temperature and PressureBighty Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. 2101507 409 Pressure-induced phase transition and phonon softening in hillu0.65c0.4FeO3. 2021, 104, 1 400 Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, 1 400 Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 400 Pressure induced superconductivity in MnSe. 2021, 12, 5436 1 Pressure-induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Truc-Dimensional Layered Material Cu(OH)Cl. 2021, 14, 1 307 Pressure-induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Truc-Dimensional Layered Material Cu(OH)Cl. 2021, 14, 1 308 Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2021, 33, 2	411		
Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. 2021, 4, 653-663 407 Abnormal Phase Transition and Band Renormalization of Guanidinium-Based Organic-Inorganic Hybrid Perovskite. 2021, 13, 44964-44971 406 Pressure-induced atomic packing change in Pd37Ni37526 metallic glass. 2021, 216, 117116 407 Phase transformations of zircon-type DyVO4 at high pressures up to 36.4 GPa: X-ray diffraction measurements. 2021, 875, 159926 408 Tm2+ Activated Sr84O7 Bifunctional Sensor of Temperature and Pressure-Bighly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. 2101507 409 Pressure-induced phase transition and phonon softening in hBu0.6Sc0.4FeO3. 2021, 104, 1 400 Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, 1 401 Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 400 Pressure induced superconductivity in MnSe. 2021, 12, 5436 1 Pressure-induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)CL. 2021, 14, 1 397 Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, 1 398 Pressure-induced Variation and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, 210, 211, 33, 210, 211, 33, 210, 211, 33, 210, 31, 211, 33, 211, 34, 32, 31, 31, 31, 31, 31, 31, 31, 31, 31, 31	410		1
Abnormal Phase Transition and Band Renormalization of Guanidinium-Based Organic-Inorganic Hybrid Perovskite. 2021, 13, 44964-44971 406 Pressure-induced atomic packing change in Pd37Ni37S26 metallic glass. 2021, 216, 117116 407 Phase transformations of zircon-type DyVO4 at high pressures up to 36.4 GPa: X-ray diffraction measurements. 2021, 875, 159926 408 Tm2+ Activated SrB4O7 Bifunctional Sensor of Temperature and PressureBighty Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. 2101507 409 Pressure-induced phase transition and phonon softening in hlbu0.65c0.4FeO3. 2021, 104. 400 Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, 1 401 Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 400 Pressure induced superconductivity in MnSe. 2021, 12, 5436 1 309 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. 2021, 33, e2102813 308 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, 309 Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, 309 Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, 400 Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	409		2
Hybrid Perovskite. 2021, 13, 44964-44971 Pressure-induced atomic packing change in Pd37Ni37S26 metallic glass. 2021, 216, 117116 Phase transformations of zircon-type DyVO4 at high pressures up to 36.4 GPa. X-ray diffraction measurements. 2021, 875, 159926 1 1 1 1 1 1 1 1 1 1 1 1 1	408		14
Phase transformations of zircon-type DyVO4 at high pressures up to 36.4 GPa: X-ray diffraction measurements. 2021, 875, 159926 Tm2+ Activated SrB4O7 Bifunctional Sensor of Temperature and PressureBighly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. 2101507 Pressure-induced phase transition and phonon softening in hllu0.6Sc0.4FeO3. 2021, 104, Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 Pressure induced superconductivity in MnSe. 2021, 12, 5436 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal Csv Sb. 2021, 33, e2102813 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	407		2
measurements. 2021, 875, 159926 Tm2+ Activated SrB4O7 Bifunctional Sensor of Temperature and PressureBighly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. 2101507 Pressure-induced phase transition and phonon softening in hIIu0.65c0.4FeO3. 2021, 104, Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 Pressure induced superconductivity in MnSe. 2021, 12, 5436 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. 2021, 33, e2102813 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	406	Pressure-induced atomic packing change in Pd37Ni37S26 metallic glass. 2021 , 216, 117116	O
Multi-Parameter Luminescence Thermometry and Manometry. 2101507 403 Pressure-induced phase transition and phonon softening in hlluo.6Sco.4FeO3. 2021, 104, 1 Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, 1 Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 400 Pressure induced superconductivity in MnSe. 2021, 12, 5436 1 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal Csv Sb. 2021, 33, e2102813 7 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	405		1
Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33, Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 Pressure induced superconductivity in MnSe. 2021, 12, 5436 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. 2021, 33, e2102813 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	404		9
Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021, 220, 117301 Pressure induced superconductivity in MnSe. 2021, 12, 5436 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. 2021, 33, e2102813 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	403	Pressure-induced phase transition and phonon softening in halu0.6Sc0.4FeO3. 2021 , 104,	1
Pressure induced superconductivity in MnSe. 2021, 12, 5436 Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. 2021, 33, e2102813 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	402	Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. 2021, 33,	1
Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. 2021, 33, e2102813 Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	401	Strength, deformation, and equation of state of tungsten carbide to 66 GPa. 2021 , 220, 117301	
Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	400	Pressure induced superconductivity in MnSe. 2021 , 12, 5436	1
Quasi-Two-Dimensional Layered Material Cu(OH)Cl. 2021, 14, Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	399		7
397 wave order parameter. 2021, 104, Anomalous structural behavior and antiferroelectricity in BiGdO: detailed temperature and high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	398		
high-pressure study. 2021, 33, Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property	397		1
	396		1
	395		O

394	In situ X-ray diffraction study of chrysotile at high PII conditions: transformation to the 3.65 \square phase. 2021 , 48, 1	
393	Hexagonal Si-Ge Class of Semiconducting Alloys Prepared by Using Pressure and Temperature. 2021 , 27, 14217-14224	Ο
392	High-pressure plastic deformation of lead metasilicate glass accessed by Raman spectroscopy: Insights into the Qn distribution. 2021 , 567, 120930	1
391	Thermostructural and Elastic Properties of PbTe and Pb0.884Cd0.116Te: A Combined Low-Temperature and High-Pressure X-ray Diffraction Study of Cd-Substitution Effects. 2021 , 11, 1063	O
390	In situ Raman scattering studies of pressure-temperature phase diagrams in antiferroelectric xCaSnO3-modified NaNbO3 ceramics. 2021 , 119, 132905	1
389	Mg-sursassite thermo-elastic parameters and its relevance as a water carrier in subducting slabs. 2021 ,	
388	Raman scattering and Cr3+ luminescence study on the structural behavior of FAlOOH at high pressures. 2021 ,	
387	Structural transition and ductility enhancement of a tungsten heavy alloy under high pressure. 2021 , 100, 105632	Ο
386	Compressibility and blue-shifting OH stretching bands of magnesium hydroxyfluoride Mg(OH)F up to 20´GPa. 2021 , 303, 122449	
385	Structural transformation and transport behavior of mixed valence compound Sn3O4 under high pressure. 2021 , 886, 161197	Ο
384	Transformations of silicon clathrate Si136 under high hydrogen pressure up to 11 GPa. 2021 , 340, 114492	1
383	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa2S4 and HgGa2S4. 2021 , 886, 161226	1
382	Stability of the sc16 polymorph of GaAs. 2021 , 159, 110233	Ο
381	Elucidating the structural properties and reversible regional texture effect of GdB6 under high pressure. 2021 , 886, 161239	
380	Iron(II)oxalate Dihydrate⊞umboldtine: Synthesis, Spectroscopic and Structural Properties of a Versatile Precursor for High Pressure Research. 2021 , 11, 113	3
379	The Remarkable Anisotropic Compressibility and Metallic Cr?Cr Chains in Topological Semimetal CrP4 under High Pressure. 2021 , 258, 2000544	Ο
378	Controllably Introducing Exposed Surfaces to Nanocrystalline CeOlCatalysts by High-Pressure Treatment. 2021 , 21, 693-697	0
377	Pressure-driven electronic phase transition in the high-pressure phase of nitrogen-rich 1H-tetrazoles 2021 , 11, 21507-21513	1

(2020-2021)

376	NIR emission of lanthanides for ultrasensitive luminescence manometry-Er-activated optical sensor of high pressure. 2021 , 50, 14864-14871	3
375	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of E BbO. 2021 , 50, 5493-5505	2
374	Raman Spectroscopy of Ammonia Borane at Low Temperature and High Pressure. 331-338	1
373	Synthesis of High-Nitrogen Energetic Material. 2009 , 75-97	11
372	Pressure Probes. 2015 , 173-204	4
371	Equations of State and Their Applications in Geosciences. 2010 , 135-145	1
370	Boron and Boron-Rich Solids at High Pressures. 2010 , 241-249	2
369	Ultra high pressure experiments on high-Tc superconductors. 1993 , 121-146	2
368	Introduction to Raman Spectroscopy at Extreme Pressure and Temperature Conditions. 1999 , 43-69	2
367	Irreversible phase transformation in a CoCrFeMnNi high entropy alloy under hydrostatic compression. 2018 , 14, 10-14	34
367	compression. 2018, 14, 10-14 Fluorescence-enhanced second harmonic normal Raman scattering in ∉carotene. 2020, 239, 118494	2
	Coordination Polymers. 2020, 59, 2127-2135	
366	Fluorescence-enhanced second harmonic normal Raman scattering in tearotene. 2020, 239, 118494 Spin-Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. 2020, 59, 2127-2135 Pressure-Induced Two-Color Photoluminescence and Phase Transition of Two-Dimensional Layered MnCl2. 2020, 124, 23317-23323	2
366 365	Fluorescence-enhanced second harmonic normal Raman scattering in tarotene. 2020, 239, 118494 Spin-Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. 2020, 59, 2127-2135 Pressure-Induced Two-Color Photoluminescence and Phase Transition of Two-Dimensional Layered	2
366 365 364	Fluorescence-enhanced second harmonic normal Raman scattering in **Carotene. 2020, 239, 118494 Spin-Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. 2020, 59, 2127-2135 Pressure-Induced Two-Color Photoluminescence and Phase Transition of Two-Dimensional Layered MnCl2. 2020, 124, 23317-23323 Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO3 Perovskite. 2021, 125, 107-119 Pressure-Induced Hydration and Formation of Bilayer Ice in Nacrite, a Kaolin-Group Clay. 2020, 4, 183-188	2 4 5
366 365 364 363	Fluorescence-enhanced second harmonic normal Raman scattering in Ecarotene. 2020, 239, 118494 Spin-Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. 2020, 59, 2127-2135 Pressure-Induced Two-Color Photoluminescence and Phase Transition of Two-Dimensional Layered MnCl2. 2020, 124, 23317-23323 Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO3 Perovskite. 2021, 125, 107-119	457
366 365 364 363 362	Fluorescence-enhanced second harmonic normal Raman scattering in tarotene. 2020, 239, 118494 Spin-Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. 2020, 59, 2127-2135 Pressure-Induced Two-Color Photoluminescence and Phase Transition of Two-Dimensional Layered MnCl2. 2020, 124, 23317-23323 Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO3 Perovskite. 2021, 125, 107-119 Pressure-Induced Hydration and Formation of Bilayer Ice in Nacrite, a Kaolin-Group Clay. 2020, 4, 183-188 Effect of Water on Lattice Thermal Conductivity of Ringwoodite and Its Implications for the	2 4 5 7 3

358	Nonsuperconducting electronic ground state in pressurized BaFe2S3 and BaFe2S2.5Se0.5. 2020 , 101,	2
357	Pressure-induced irreversible evolution of superconductivity in PdBi2. 2019 , 99,	9
356	Atomic-layered MoS2 on SiO2 under high pressure: Bimodal adhesion and biaxial strain effects. 2017 , 1,	16
355	Experimental and first-principles calculation study of the pressure-induced transitions to a metastable phase in GaPO4 and in the solid solution AlPO4©aPO4. 2017 , 1,	3
354	Pressure-induced multiband superconductivity in pyrite PtBi2 with perfect electron-hole compensation. 2018 , 2,	6
353	Phase diagram of calcium at high pressure and high temperature. 2018 , 2,	17
352	Universal superconductivity phase diagram for pressurized tetradymite topological insulators. 2018 , 2,	5
351	Superconductor-insulator transition driven by pressure-tuned intergrain coupling in nanodiamond films. 2019 , 3,	4
350	High-pressure synthesis, crystal growth, and compression behavior of hexagonal CrN2 having one-dimensionally aligned nitrogen dimer. 2019 , 3,	9
349	Tunable multiferroic order parameters in Sr1\(\mathbb{B}\)BaxMn1\(\mathbb{J}\)TiyO3. 2019 , 3,	3
348	Structural study of the pressure-induced metal-insulator transition in LiV2O4. 2020, 4,	3
347	Phase stabilities of MgCO3 and MgCO3-II studied by Raman spectroscopy, x-ray diffraction, and density functional theory calculations. 2020 , 4,	15
346	Realization of the orbital-selective Mott state at the molecular level in Ba3LaRu2O9. 2020, 4,	5
345	Beryllium polyhydride Be4H8(H2)2 synthesized at high pressure and temperature. 2020 , 4,	1
344	Crystal-field Paschen-Back effect on ruby in ultrahigh magnetic fields. 2020 , 2,	1
343	Destabilizing excitonic insulator phase by pressure tuning of exciton-phonon coupling. 2020 , 2,	6
342	A closer look into close packing: pentacoordinated silicon in a high-pressure polymorph of danburite. 2017 , 4, 671-677	15
341	Crystal design by CHN and NN interactions: high-pressure structures of high-nitrogen-content azido-triazolopyridazines compounds. 2020 , 76, 1136-1142	4

340	Pressure-induced phase transition of 1,4-dioxane: From twisted-boat- to chair conformer. 2020, 74, 1	1
339	The Hydrothermal Diamond Anvil Cell (HDAC) for Raman spectroscopic studies of geological fluids at high pressures and temperatures. 249-278	6
338	Luminescence techniques in Earth Sciences. 43-91	12
337	Raman spectroscopy. 281-343	46
336	Ultrafast carrier dynamics in all-inorganic CsPbBr perovskite across the pressure-induced phase transition. 2019 , 27, A995-A1003	17
335	High-Pressure Transition of Fe2+ From Low- to High-Spin Electronic State in Siderite: Optical Absorption Study. 2017 , 39, 3-23	1
334	Thermodynamics of deep geophysical media. 1999 , 1, 11-49	3
333	Pressure¶omposition Phase Diagram of Fe¶i Alloy. 2020 , 61, 1058-1062	2
332	High-Pressure Spectroscopy Study of Zn(IO3)2 Using Far-Infrared Synchrotron Radiation. 2021, 11, 34	2
331	A New Reference for the Thermal Equation of State of Iron. 2020 , 10, 100	6
330	High-Pressure Transformations and Ionic Conductivity in Low-Z Complex Hydride LiBH4. 2011 , 21, 213-220	7
329	10 GPa-Class High-Pressure NMR Technique Realized by the New Cell with Improved Space Efficiency. 2012 , 22, 198-205	2
328	On the impact of the stress situation on the optical properties of \$WSe_2\$ monolayers under high pressure. 11, 110005	3
327	Equation of state and high-pressure phase behaviour of SrCO₃. 2020 , 32, 575-586	8
326	Pressure-induced metallization transition in Mg2Ge. 2017 , 66, 166201	2
325	Isotropic Compression Behavior of Lawsonite Under High-pressure Conditions. 2016 , 49, 23-30	1
324	Pressure-induced order-disorder transitions in <code>#nS</code> : an experimental and theoretical study of structural and vibrational properties. 2021 , 23, 23625-23642	О
323	Monoclinic (Drthorhombic Phase Transition with a Positive Volume Change in the Siliceous Zeolite Mobil-Five Induced by the High-Pressure Insertion of Dense Fluid Helium.	

322	Pressure-induced and flaring photocatalytic diversity of ZnO particles hallmarked by finely tuned pathways. 2022 , 894, 162444	0
321	Strain induced electronic transition in 1T' MoTe2: high pressure Raman, x-ray diffraction, resistivity measurements and first principles theoretical studies.	O
320	Time-Resolved Photoluminescence Study of MnS/ZnS Core/Shell Quantum Dots at High Pressure and Low Temperature. 2021 , 125, 22354-22359	
319	Evolution of Structural and Electronic Properties of TiSe under High Pressure. 2021 , 12, 9859-9867	5
318	Lattice dynamics of zircon-type NdVOand scheelite-type PrVOunder high-pressure. 2021, 34,	О
317	Layer-Dependent Pressure Effect on the Electronic Structure of 2D Black Phosphorus. 2021 , 127, 186401	2
316	Pressure Effects on Lead-Free Metal Halide Perovskites: a Route to Design Optimized Materials for Photovoltaics. 2021 , 5, 2100550	3
315	Yield strength and hardness of micron-sized powders measured in the diamond cell. 1-13	О
314	Impacts of pressure to the structural, electronic and magnetic properties of Dirac semimetal EuMnBi2. 2021 , 3,	0
313	Observation of nearly identical superconducting transition temperatures in the pressurized Weyl semimetals MIrTe4 (M=Nb and Ta). 2021 , 104,	
313		2
	semimetals MIrTe4 (M=Nb and Ta). 2021 , 104,	2
312	semimetals MIrTe4 (M=Nb and Ta). 2021, 104, Crosscheck of Pt and Au Pressure Scales and EOS of Bi to Megabar Pressures 2002, 12, 63-68	2
312	semimetals MIrTe4 (M=Nb and Ta). 2021, 104, Crosscheck of Pt and Au Pressure Scales and EOS of Bi to Megabar Pressures 2002, 12, 63-68 ??????????. 2002, 12, 167-170 A Computer Program for the Pressure Determination with the Ruby Fluorescence Method. 2005,	2
312 311 310	Semimetals MIrTe4 (M=Nb and Ta). 2021, 104, Crosscheck of Pt and Au Pressure Scales and EOS of Bi to Megabar Pressures 2002, 12, 63-68 ??????????? 2002, 12, 167-170 A Computer Program for the Pressure Determination with the Ruby Fluorescence Method. 2005, 15, 3-8 Effects of Uniaxial Stress on the Equation of State of Auß Pitfall in High-Pressure X-ray	2
312 311 310 309	Crosscheck of Pt and Au Pressure Scales and EOS of Bi to Megabar Pressures 2002, 12, 63-68 ??????????? 2002, 12, 167-170 A Computer Program for the Pressure Determination with the Ruby Fluorescence Method. 2005, 15, 3-8 Effects of Uniaxial Stress on the Equation of State of Aul Pitfall in High-Pressure X-ray Diffraction Experiments. 2010, 20, 230-239	2
312 311 310 309 308	Crosscheck of Pt and Au Pressure Scales and EOS of Bi to Megabar Pressures 2002, 12, 63-68 ??????????? 2002, 12, 167-170 A Computer Program for the Pressure Determination with the Ruby Fluorescence Method. 2005, 15, 3-8 Effects of Uniaxial Stress on the Equation of State of Aul Pitfall in High-Pressure X-ray Diffraction Experiments. 2010, 20, 230-239 Hugoniot-Measurement Experiment for the Purpose of Improvement of Pressure Scale. 2010, 20, 221-229	2

304	Phase Transition Studies on TiO2anatase under High Pressure. 2012 , 25, 77-84	
303	Pressure Effects on the Dehydration Behavior of Natrolite. 2013 , 26, 175-187	
302	The Equation of State of Dense Argon; A Comparison of Shock and Static Studies. 1986, 131-134	
301	Preface. 1988, vii-viii	
300	High-Tc Superconductors Under Very High Pressure. 1991 , 399-417	
299	STATIC COMPRESSION TO MULTIMEGABAR PRESSURES. 1992 , 27-38	
298	The relaxation of a decompressed inclusion. 1995 , 335-355	
297	Phase Transitions and Equations of State. 1999 , 477-491	
296	High-Pressure Synchrotron Diffraction Study of the Superconducting Spin-Ladder Compound (Sr,M)14Cu24O41, with M=Ca, Ba, Nd. 1999 , 97-102	
295	Raman spectra based pressure calibration of the non-gauge sapphire anvil cell at high temperature and high pressure. 2015 , 64, 149101	
294	High Pressure Behavior Study of the Apophyllite (KF). 2015 , 28, 325-332	2
293	Compressibility Study of Pyromorphite at High Pressure. 2016 , 29, 191-198	
292	High pressure single-crystal synchrotron X-ray diffraction technique. 2017 , 66, 036203	О
291	Experimental Methods. 2018 , 53-78	
290	High Pressure Behavior Study of Azurite. 2018 , 31, 277-285	
289	Construction of FT-IR micro-spectroscopy system: In situ studies on reaction-dynamics of material. 2019 , 35, 252-260	1
288	Thermal expansibility and compressibility of prehnite and its geological implications. 2019, 35, 146-152	1
287	RSAVS superconductors: Materials with a superconducting state that is robust against large volume shrinkage. 2020 , 4,	1

286 High-pressure preference for reduced water content in porous zinc aspartate hydrates. **2020**, 76, 795-801

285	Pressure-induced Esterification Reaction between Phosphoric Acid and Methanol. 2020 , 49, 885-887	
284	High-Pressure Polymorphs Nucleated and Stabilized by Rational Doping under Ambient Conditions. 2021 , 125, 23501-23509	2
283	Effects of Hydrogen on the Phase Relations in Fe-FeS at Pressures of Mars-Sized Bodies. 2021 , 126, e2021J	E00 <u>6</u> 942
282	High-pressure thermal conductivity and compressional velocity of NaCl in B1 and B2 phase. 2021 , 11, 21321	1
281	Fragile Pressure-Induced Magnetism in FeSe Superconductors with a Thickness Reduction. 2021 , 21, 9310-9317	2
280	High pressure investigations on TTF-TCNQ charge-transfer complexes. 2022 , 267, 120541	1
279	Magnetic Structure of antiferromagnetic high-pressure phases of dysprosium. 2021 , 545, 168749	
278	Comparison of reidite formation between zircon bulk and nanoparticles. 2021, 161, 110475	
277	Controlling Spin Orientation and Metamagnetic Transitions in Anisotropic van der Waals Antiferromagnet CrPS4 by Hydrostatic Pressure. 2106592	2
276	Structural and vibrational properties of methane up to 71 GPa. 2021 , 104,	0
275	Decoupling of itinerant and localized d-orbital electrons in the compound ScZrCo. 2020 , 32, 40LT01	
274	Raman spectroscopy at high pressure and temperature for the study of the Earth® mantle and planetary minerals. 367-390	1
273	In situ micro-FTIR spectroscopic investigations of synthetic ammonium phengite under pressure and temperature. 2020 , 32, 469-482	O
272	Pressure-induced Pb-Pb bonding and phase transition in PbSnO. 2020 , 76, 979-991	4
271	Pressure induced phase transition of La-substituted BiFeO3. 2022 , 341, 114595	O
270	On-site in situ high-pressure ultrafast pump-probe spectroscopy instrument. 2021 , 92, 113002	0
269	Metallization and Superconductivity in the van der Waals Compound CuPSe through Pressure-Tuning of the Interlayer Coupling. 2021 , 143, 20343-20355	1

268	Tuning the onset pressure of pressure-induced phase transition in indium phosphide by extrinsic doping. 2021 , 161, 110487	
267	Establishing consistent equations of state for solid noble gases: Implication for partitioning behaviors of noble gases in the lower mantle. 2021 , 103872	
266	Stochastic hydration of a high-nitro-gen-content molecular compound recrystallized under pressure 2022 , 9, 49-54	2
265	Pressure-driven electronic and structural phase transition in intrinsic magnetic topological insulator MnSb2Te4. 2021 , 104,	2
264	The temperature dependence of bismuth structures under high pressure.	1
263	Adapting a continuous flow cryostat and a plate DAC to do high pressure Raman experiments at low temperatures 2021 , 92, 123902	
262	In situ high temperature and high-pressure investigation of crystal structure and OH of rutile in jadeite quartzite from the Dabie Mountains, China. 2021 , 37, 3893-3902	О
261	Electrical transport properties of EuTe under high pressure. 2021 , 9, 17371-17381	O
2 60	Tunable band gap of layered semiconductor Zn3In2S6 under pressure.	О
259	Pressure-induced superconductivity and structural transitions in topological insulator SnBi2Te4. 2022 , 900, 163371	O
258	Modulated structure of hemimorphite associated with pressurelinduced phase transition. 2021 , 116, 251-262	
257	Giant barocaloric effects in formamidinium iodide. 2022 , 10, 011109	O
256	Structural phase transition of BiSb and formation of Weyl semimetallic phase under pressure: calculations and experiments.	О
255	Sound speed and refractive index of amorphous CaSiO3 upon pressure cycling to 40 GPa. 2022,	
254	Compressibility, Phase Transition, and Argon Insertion in the Siliceous Zeolite Mobil-Twelve at High Pressure. 2022 , 126, 2877-2884	0
253	Pressure-induced bandgap engineering and photoresponse enhancement of wurtzite CuInS nanocrystals 2022 ,	2
252	The Phase Transition of Calcium Sulfide Under High Pressure. 2022 , 2148, 012015	
251	Pressure-induced coupled structural-electronic transition in SnS under different hydrostatic environments up to 39.7 GPa 2022 , 12, 2454-2461	4

250	The Fe-FeSi phase diagram at Mercury's core conditions 2022 , 13, 387	2
249	High-pressure behaviour and atomic-scale deformation mechanisms in inyoite, CaB3O3(OH)5[4H2O. 2022 , 49, 1	О
248	Effects of hydrostaticity and Mn-substitution on dolomite stability at high pressure. 2022,	1
247	Epidote as a conveyor of water into the Earth deep mantle in subduction zones: Insights from coupled high pressure - temperature experiments. 2022 ,	
246	Pressure-induced phase transitions of cobalt sulfate hydrates and discovery of a new high-pressure phase, CoSO45H2O. 2022 , 308, 122904	
245	An efficient blue phosphor with high thermal stability for lighting and optical pressure sensor applications.	3
244	Equation of states for dense ice up to 80 GPa at low-temperature conditions 2022, 156, 064504	
243	High Temperature Melting Curve of Basaltic Glass by Laser Flash Heating. 2022 , 39, 020701	O
242	Ultrasensitive Pressure-Induced Optical Materials: Europium-Doped Hafnium Silicates with a Khibinskite Structure for Optical Pressure Sensors and WLEDs 2022 ,	1
241	Crystal engineering of aurophilic supramolecular architectures and coordination polymers based on butterfly-like copperdicyanoaurate complexes: vapochromism, PII behaviour and multi-metallic cocrystal formation. 2022 , 24, 2336-2348	O
240	High-pressure bandgap engineering and amorphization in TiNb2O7 single crystals. 2022 , 24, 2660-2666	О
239	Mechanical strain, thermal and pressure effects on the absorption edge of an organic charge-transfer polymer for flexible photovoltaics and sensors. 2022 , 3, 2697-2705	O
238	Improvement of nano-polycrystalline diamond anvil cells with Zr-based bulk metallic glass cylinder for higher pressures: application to Laue-TOF diffractometer. 2022 , 42, 121-135	1
237	Pressure-induced phase transitions, amorphization and alloying in SbS 2022,	3
236	Edge-sharing BO4 tetrahedra and penta-coordinated silicon in the high-pressure modification of NaBSi3O8.	О
235	Pressure driven phase transitions in honeycomb Fe4Nb2O9: A possible re-entrant multiferroic behavior. 2022 , 131, 084101	
234	Photothermal-chemical Synthesis of P-S-H Ternary Hydride at High Pressures.	
233	Thermal conductivity of materials under pressure.	5

232 Pressure-induced charge ordering transition in CaMn7O12. 2022, 105,

231	High-pressure phase transitions and melt structure of PbO2 : An analog for silica. 2022 , 105,	
230	Structural Metamorphosis and Band Dislocation of Trirutile NiTa2O6 under Compression. 2022 , 126, 4106-4117	O
229	Thermal Conductivity and Compressional Velocity of Methane at High Pressure: Insights Into Thermal Transport Properties of Icy Planet Interiors. 2022 , 127,	1
228	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. 2022 , 105,	0
227	Dehydro-DielsAlder reaction and diamondization of bowl-shaped clusters C18Te3Br4(Bu-O)6. 1	O
226	Reentrant Negative Linear Compressibility in MIL-53(Al) over an Ultrawide Pressure Range. 2022 , 34, 2764-2770	0
225	Behavior of Long-Chain Hydrocarbons at High Pressures and Temperatures 2022,	2
224	Quantum Oscillations in Noncentrosymmetric Weyl Semimetal SmAlSi. 2022, 39, 047501	0
223	Pressure-induced emission enhancement and bandgap narrowing: Experimental investigations and first-principles theoretical simulations on the model halide perovskite Cs3Sb2Br9. 2022 , 105,	O
222	In situ Raman vibrational spectra of siderite (FeCO3) and rhodochrosite (MnCO3) up to 47 GPa and 1100 K. 2022 ,	2
221	Low Thermal Conductivity of Carbon Dioxide at High Pressure: Implications for Icy Planetary Interiors. 2022 , 127,	O
220	High-pressure tuning of dd crystal-field electronic transitions and electronic band gap in Co(IO3). 2022 , 105,	2
219	Partnership for eXtreme Xtallography (PX2) A state-of-the-art experimental facility for extreme-conditions crystallography: A case study of pressure-induced phase transition in natural ilvaite. 2022 , 7, 028401	О
218	An Investigation of the Pressure-Induced Structural Phase Transition of Nanocrystalline £CuMoO4. 2022 , 12, 365	1
217	Giant Viscoelasticity near Mott Criticality in PbCrO_{3} with Large Lattice Anomalies 2022 , 128, 095702	О
216	A new transition metal diphosphide EMoP2 synthesized by a high temperature and high-pressure technique.	0
215	Insulator-metal transition and crossover from negative to positive magnetoresistance in Cu2IrO3 under high pressure. 2022 , 105,	O

The phase transition of nicotinic acid under high pressure. **2022**, 103361

213	Thermal expansion and compressibility of calcium scandate CaSc2O4. 2022 , 909, 164756	
212	Pressure-induced superconductivity and structure phase transition in Pt2HgSe3. 2021, 6,	2
211	Reversible Mechanically Induced OnOff Photoluminescence in Hybrid Metal Halides. 2022 , 32, 2110771	2
2 10	Pressure-driven phase transformations and phase segregation in ferrielectric CuInP2S6Ih4/3P. 2021 , 104,	O
209	Phase stability of pre-irradiated CeO 2 with swift heavy ions under high pressure up to 45 GPa. 2022 , 105, 2889-2902	0
208	Pressure-Induced InsulatorMetal Transition in Two-Dimensional Mott Insulator NiPS3. 2021 , 90,	O
207	Pressure-induced polymerization and bandgap-adjustment of TPEPA 2022 , 12, 11996-12001	
206	Pressure-stimulus-responsive behaviors of core-shell InP/ZnSe nanocrystals: remarkable piezochromic luminescence and structural assembly 2022 ,	
205	Super-hydration and reduction of manganese oxide minerals at shallow terrestrial depths 2022 , 13, 1942	
204	Equal compressibility structural phase transition of molybdenum at high pressure.	
203	Pressure-induced structural transformations on linear carbon chains encapsulated in carbon nanotubes: A potential route for obtaining longer chains and ultra-hard composites. 2022 ,	0
202	Pressure Induced Superconductivity and Multiple Structural Transitions in CsCl-Type Cubic CeZn Single Crystal. 2022 , 12, 571	О
201	Crystalline CNH tube (3,0) nanothreads 2022 , 119, e2201165119	4
200	Temperature- and Pressure-Dependent Phonon Dynamics Properties of Gallium Selenide Telluride.	О
199	Stability of Wadsley-type vanadium oxides V2O5 and V6O13 at high pressures. 2022 , 164966	O
198	Normal to abnormal behavior of PbSiO3 glass: A vibrational spectroscopy investigation under high-pressure. 2022 , 589, 121614	
197	Pressure-triggered enormous redshift and enhanced emission in Ca2Gd8Si6O26:Ce3+ phosphors: Ultrasensitive, thermally-stable and ultrafast response pressure monitoring. 2022 , 443, 136414	2

196	Pressure-Induced Superconductivity in HgTe Single-Crystal Film 2022 , e2200590	О
195	Concurrent Pressure-Induced Spin-State Transitions and Jahn Teller Distortions in MnTe. 2022, 34, 3931-3940	1
194	Phase Transitions of Cu and Fe at Multiscales in an Additively Manufactured Cu-Fe Alloy under High-Pressure 2022 , 12,	
193	Hard nanocrystalline gold materials prepared via high-pressure phase transformation.	1
192	Pressure-induced reemergence of superconductivity in Balr2Ge7 and Ba3lr4Ge16 with cage structures. 2022 , 7, 038404	0
191	Equations of state of EsiC (6H) and 卧Mg2Si1.1 from single-crystal X-ray diffraction data and novel high-pressure magnesium silicide Mg2Si7. 2022 , 49, 1	2
190	Pressure-induced superconductivity in the noncentrosymmetric Weyl semimetals LaAlX (X=Si,Ge). 2022 , 105,	O
189	Observation of three superconducting transitions in the pressurized CDW-bearing compound TaTe2. 2022 , 6,	О
188	Interlayer Coupling and Pressure Engineering in Bilayer MoS2. 2022 , 12, 693	1
187	Robust structure symmetry and electronic band structure of the chiral topological semimetal CoSi against high pressure. 2022 , 103667	
186	Phase stability and dense polymorph of the BaCa(CO) barytocalcite carbonate 2022, 12, 7413	1
185	Pressure induced superconductivity in nonlinear optical crystal ZnGeP2 and its capture at ambient pressure. 2022 , 100707	
184	Transformation of natural pollucite into hexacelsian under high pressure and temperature. 2022 , 49,	
183	Realization of parallel experiments in a diamond anvil cell and their application to waterthineral interactions at high-pressure and high-temperature conditions. 2022 , 93, 053905	O
182	Pressure-induced metallization and robust superconductivity in pristine 1T-HfSe2. 2022 , 25, 100698	1
181	A high-pressure study of EuN using XRD and DFT. 2022 , 351, 114811	
180	Highly-efficient double perovskite Mn4+-activated Gd2ZnTiO6 phosphors: A bifunctional optical sensing platform for luminescence thermometry and manometry. 2022 , 446, 136839	4
179	Enhancement of electrical conductivity to metallization of Mn3-Fe O4 spinel and postspinel with elevating pressure. 2022 , 167, 110721	1

178	General relationship between the band-gap energy and iodine-oxygen bond distance in metal iodates. 2022 , 6,	2
177	Microstructure Evolution in High-Pressure Phase Transformations of CrFeNi and CoCrFeMnNi Alloys. 2022 , 165383	0
176	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites 2022 , e2201666	3
175	Pressure evolution of electronic and structural properties in transition metal dichalcogenide 1T-Co1.06Te2.	
174	High-Pressure Polymorphism in Hydrogen-Bonded Crystals: A Concise Review. 2022 , 12, 739	
173	Dimensionality switching and superconductivity transition in dense 1T日fSe2. 2022 , 105,	O
172	Formation and Stability of Dense Methane-Hydrogen Compounds. 2022, 128,	0
171	Superconductivity above 200 K discovered in superhydrides of calcium. 2022 , 13,	6
170	Pressure-Enhanced Photocurrent in One-Dimensional SbSI via Lone-Pair Electron Reconfiguration. 2022 , 15, 3845	3
169	Structural Phase Transition and Possible Valence Instability of Ce-4f Electron Induced by Pressure in CeCoSi. 2022 , 91,	2
168	Inference of a Hot IceLayer in Nitrogen-Rich Planets: Demixing the Phase Diagram and Phase Composition for Variable Concentration Helium Ditrogen Mixtures Based on Isothermal Compression.	
167	Pressure- and temperature-dependent Raman spectra of Ca2Fe2O5 oxygen defect perovskite. 2022 , 279, 121436	
166	Pressure-induced Photoluminescence Enhancement of CeF3:Tb3+ nanoparticles.	
165	Piezochromic luminescence of dicoronylene: Key for revealing hidden Raman modes at high pressure. 2022 ,	
164	Symmetry progression and possible polar metallicity in NiPS3 under pressure. 2022, 6,	0
163	Phase Transitions in Amorphous Germanium under Non-Hydrostatic Compression. 2022 , 12, 898	
162	3D stress mapping reveals the origin of lithium-deposition heterogeneity in solid-state lithium-metal batteries. 2022 , 100938	4
161	In-situ high-pressure and high-temperature spectroscopic studies of phengite in ultrahigh-pressure eclogite: implications for water transport during ultra-deep continental subduction. 2022 , 49,	

160	The Mechanism behind SnO metallization under High Pressure. 2022, 105750	О
159	High-Pressure Synthesis and Stability Enhancement of Lithium Pentazolate. 2022 , 61, 9012-9018	0
158	Exchanged Metal-Hydrogen Anagostic Bonds and Resonance of Dithiocarbamate and Thioureide Mesomers**.	1
157	High-Pressure Synthesis of ∄and ⊞n2Se3-Like Structures in Ga2S3.	
156	Effect of quasi hydrostatic and non hydrostatic pressure on long SB bonded sodium dithionite (Na2S2O4): A Raman Spectroscopic study. 2022 , 313, 123315	
155	Equation of State and Electrical Transport Properties of Li2mno3 at High Pressure.	
154	Pressure engineering of intertwined phase transitions in lanthanide monopnictide NdSb. 2022 , 65,	
153	Understanding Electron P honon Interactions in 3D Lead Halide Perovskites from the Stereochemical Expression of 6s2 Lone Pairs. 2022 , 144, 12247-12260	2
152	Evidence for Dissociation and Ionization in Shock Compressed Nitrogen to 800 GPa. 2022 , 129,	1
151	Pressure-induced local structural crossover in a high-entropy metallic glass. 2022 , 105,	Ο
150	High-Pressure Synthesis of Highly Conjugated Polymers via Synergistic Polymerization of Phenylpropiolic Acid. 2022 , 4, 5246-5252	
149	Coevolution of Superconductivity With Structure and Hall Coefficient in Pressurized NaSn2As2. 2,	Ο
148	Metal Site Substitution and Role of the Dimer on Symmetry Breaking in FePS3 and CrPS4 under Pressure.	Ο
147	Equation of state of elbaite at high pressure up to 21.1 GPa and room temperature. 2022 , 49,	Ο
146	Quasi-uniaxial pressure induced superconductivity in the stoichiometric compound UTe2. 2022 , 106,	1
145	Supersensitive Ratiometric Thermometry and Manometry Based on Dual-Emitting Centers in Eu 2+/Sm 2+-Doped Strontium Tetraborate Phosphors. 2201055	2
144	Distinct superconducting behaviors of pressurized WB2 and ReB2 with different local B layers. 2022 , 65,	0
143	Melting of the Fe-C-H System and Earth's Deep Carbon-Hydrogen Cycle. 2022 , 49,	1

142	The high-pressure structural evolution of ErVO4 investigated by photoluminescence spectroscopy. 2022 , 324, 132796	
141	Influence of dynamic compression on the phase transition of cyclohexane. 2022 , 363, 119836	О
140	Confirmation of Phase Transitions and Laser-Assisted Chemical Reaction for Pyridine under High Pressure.	1
139	Thermal Conductivity of BAs under Pressure. 2200017	o
138	Structural evolution and ferroelectric properties of relaxor ferroelectric single crystal Pb(Mg1/3Nb2/3)O3-0.28PbTiO3 under high pressure. 2022 , 121, 032901	0
137	High-pressure behavior and phase transition of jadarite, a promising B and Li mineral commodity.	O
136	Pressure-Induced Structural Phase Transition, Anomalous Insulator-to-Metal Transition, and np Conduction-Type Switching in Defective, NiAs-Type Cr1Ie. 2022 , 61, 11923-11931	1
135	Single crystal elasticity and equation of state of tantalum up to 54 GPa. 2022 , 132, 055902	
134	In-plane and out-of-plane optical response of the nodal-line semimetals ZrGeS and ZrGeSe. 2022 , 106,	
133	Effect of Al2O3 on Sound Velocity of MgSiO3 Glass at High Pressure. 2022 , 12, 1069	
132	Crystal structure solution of a high-pressure polymorph of scintillating MgMoO4 and its electronic structure. 2022 , 106,	
131	Pressure-Driven Phase Transition in Two-Dimensional Perovskite MHy2PbBr4.	2
130	Cascade of pressure-driven phase transitions in the topological nodal-line superconductor PbTaSe2. 2022 , 106,	0
129	High-pressure Cr3+ R-line luminescence of zoisite and kyanite: a probe of octahedral site distortion. 2022 , 49,	o
128	High-Pressure and High-Temperature Single-Crystal Elasticity of Cr-Pyrope: Implications for the Density and Seismic Velocity of Subcontinental Lithospheric Mantle. 2022 , 23,	
127	Suppression of Pressure-Induced Phase Transitions in a Monoclinically Distorted LiNbO3-Type CuNbO3 by Preference for a CuO3 Triangular Coordination Environment. 2022 , 61, 12719-12725	
126	Morphology Tuned Pressure Induced Amorphization in VO2(B) Nanobelts. 2022 , 10, 122	
125	Stability of the tetragonal phase of BaZrO3 under high pressure. 2022 , 106,	O

124	Preservation of high-pressure volatiles in nanostructured diamond capsules. 2022, 608, 513-517	1
123	Pressure-induced superconductivity in quasi-one-dimensional semimetal Ta2PdSe6. 2022 , 6,	O
122	Experimental and theoretical examination of shock-compressed copper through the fcc to bcc to melt phase transitions. 2022 , 132, 075902	0
121	The structure of sc16 GaP obtained at 17.5 GPa and 1400 K. 1-9	
120	Short-Range Crystalline Order-Tuned Conductivity in Cr2Si2Te6 van der Waals Magnetic Crystals. 2022 , 16, 13134-13143	1
119	Nested order-disorder framework containing a crystalline matrix with self-filled amorphous-like innards. 2022 , 13,	3
118	Magnetism in four-layered Aurivillius Bi5FeTi3O15 at high pressures. 2022 , 562, 169783	
117	Fluorescence-based monitoring of the pressure-induced aggregation microenvironment evolution for an AIEgen under multiple excitation channels. 2022 , 13,	1
116	Enhanced Mechanical Stability and Proton Conductivity Performance from the Dense Mn(II)-Metal®rganic Framework to Porous Mn(II)•Be(III)-Metal®rganic Framework. 2022 , 61, 15166-15174	0
115	High-pressure structural stability and bandgap engineering of layered tin disulfide. 2022 , 121, 114101	O
114	High-pressure behavior and crystal-fluid interaction in natural erionite-K. 2022 , 292, 126760	0
113	High-pressure, high-temperature synthesis of nanostructured polydiphenylbutadiyne confined in the 1-dimensional pores of single crystal AlPO4-54.	O
112	Pressure-induced structural transitions, alloying and superconductivity in topological insulators Bi2Te2Se and Bi2Se2Te. 2022 , 51, 14630-14638	0
111	Dual role of oxygen-related defects in the luminescence kinetics of AlN:Mn2+. 2022 , 51, 14297-14305	O
110	Pressure-induced phase transition in ⊞and ⊞iNbO4. 2022 , 24, 20546-20552	1
109	High pressure Raman study of LiClO4. 2023 , 285, 121914	O
108	Preference of High-Nitrogen-Content Compounds to Form Hydrates and the Tandem Contacts of Azide Groups. 2022 , 22, 5996-6003	O
107	Atomic distribution and local structure in ice VII from in situ neutron diffraction. 2022, 119,	O

106	Structural and electronic phase transitions in Zr1.03Se2 at high pressure. 2022 , 106,	O
105	HTD2: a single-crystal X-ray diffractometer for combined high-pressure/low-temperature experiments at laboratory scale. 2022 , 55, 1255-1266	1
104	Pressure Tuning Resonance Raman Scattering in Monolayer, Trilayer, and Many-Layer Molybdenum Disulfide.	O
103	Comparative Study on Properties, Structural Changes, and Isomerization of Cis/Trans-Stilbene under High Pressure. 2022 , 126, 16859-16866	0
102	Pressure Engineering Promising Transparent Oxides with Large Conductivity Enhancement and Strong Thermal Stability. 2202973	О
101	Pressure-induced superconductivity in the kagome single-crystal Pd3P2S8. 2022 , 106,	0
100	Melting of basaltic lithologies in the Earth's lower mantle. 2022 , 106938	0
99	A Comprehensive Review of High-Pressure Laser-Induced Materials Processing, Part I: Laser-Heated Diamond Anvil Cells. 2022 , 6, 111	1
98	Experimental and Theoretical Raman Spectroscopy of Isotopically Pure and Diluted Ice VI.	1
97	Water-cooling diamond anvil cells: An approach to temperaturepressure relation in heated experiments. 2022 , 93, 103904	0
96	Pressure-induced superconductivity extending across the topological phase transition in thallium-based topological materials. 2022 , 101094	0
95	Pressure- and Temperature-Induced Structural Phase Diagram of Lead-Free (K0.5Na0.5)NbO3 0 .05LiNbO3 Single Crystals: Raman Scattering and Infrared Study.	O
94	1D Cu(I)-I-pyrazine coordination polymer with pressure-induced phase transition and opto-electronic response la carte depending on mechanical stimuli, temperature, and CuI content	0
93	Effect of Hexagonality on the Pressure-dependent Lattice Dynamics of 4H-SiC.	1
92	Pressure-Induced Tunable Charge Carrier Dynamics in Mn-Doped CsPbBr3 Perovskite. 2022 , 15, 6984	О
91	Reassigning the Pressure-Induced Phase Transitions of Methylammonium Lead Bromide Perovskite. 2022 , 144, 20099-20108	1
90	Pressure-induced superconductivity in magnetic topological insulator candidate MnSb4Te7. 2022 , 6,	О
89	Pressure-induced topological and structural phase transitions in natural van der Waals heterostructures from the (SnTe)m(Bi2Te3)n. 2022 , 106,	O

88	Pressure-Tuning Superconductivity in Noncentrosymmetric Topological Materials ZrRuAs. 2022 , 15, 7694	O
87	Reconfiguring band-edge states and charge distribution of organic semiconductor I hcorporated 2D perovskites via pressure gating. 2022 , 8,	3
86	Discovery of high-pressure post-perovskite phase in HoCrO3. 2023 , 172, 111078	1
85	In situ high-pressure infrared spectroscopy of carbonophosphates Na3Mn(PO4)(CO3) and Na3Mg(PO4)(CO3). 2023 , 933, 167807	O
84	Mechanical Properties of a New Hybrid Inorganic Drganic Framework: A Nanoindentation, High-Pressure X-ray Diffraction, and Computational Study.	О
83	High-pressure behavior of gasparite-(Ce) (nominally CeAsO4), a monazite-type arsenate. 2022 , 49,	O
82	Influence of lattice defects on the high pressure properties of Ni0.66Mn2.33O4 NTC ceramics. 2022	0
81	Investigation of null-matrix alloy gaskets for a diamond-anvil-cell on high pressure neutron diffraction experiments. 1-15	O
80	Cesium-mediated electron redistribution and electron-electron interaction in high-pressure metallic CsPbI3. 2022 , 13,	0
79	High-pressure synthesis and crystal structures of molybdenum nitride Mo3N5 with anisotropic compressibility by a nitrogen dimer.	O
78	Experimental and theoretical study of As2Te3 under hydrostatic pressure.	О
77	In-situ investigation of the vibrational properties of H2O CO2-bearing and dry K-rich basaltic glasses at high pressure by mid infrared spectroscopy. 2023 , 602, 122085	O
76	Suppressed charge-density-wave, robust ferromagnetism and Lifshitz transition in Sm2Ru3Ge5 crystal under high pressure. 2023 , 937, 168337	0
75	Anomalous thermal transport under high pressure in boron arsenide. 2022 , 612, 459-464	О
74	Enhanced Second-Harmonic Generation of van der Waals CuInP2S6 via Pressure-Regulated Cationic Displacement.	О
73	Modulations in Superconductors: Probes of Underlying Physics. 2209457	О
72	Coherent Control and Magnetic Detection of Divacancy Spins in Silicon Carbide at High Pressures.	0
71	High-pressure investigations in CH3NH3PbX3 (X = I, Br, and Cl): S. 2022 , 106,	1

70	Quasi-One-Dimensional Metallicity in Compressed CsSnI3.	O
69	Superconductivity arising from pressure-induced emergence of a Fermi surface in the kagome-lattice chalcogenide Rb2Pd3Se4. 2022 , 106,	O
68	Pressure-induced band-gap energy increase in a metal iodate. 2022 , 106,	0
67	Pressure-Induced Superconductivity in PdTeI with Quasi-One-Dimensional PdTe Chains. 2022 , 12, 1833	O
66	Ruby High Pressure Scale.	O
65	Thermal conductivity of iron and nickel during melting: Implication to the planetary liquid outer core. 2023 , 97,	O
64	High-Performance Hydrogels via Alternate CompressionDecompression.	0
63	Flipping of antiferromagnetic to superconducting states in pressurized quasi-one-dimensional manganese-based compounds. 2022 , 106,	2
62	Pressure-induced phase transition of CO32Ebearing scapolite by in situ X-ray diffraction and vibrational spectroscopy. 2023 , 50,	0
61	Highly Pressure-Sensitive, Temperature Independent Luminescence Ratiometric Manometer Based on MgO:Cr 3+ Nanoparticles. 2200801	O
60	Pressure-induced nontrivial Z2 band topology and superconductivity in the transition metal chalcogenide Ta2Ni3Te. 2023 , 107,	0
59	Regulating the photoluminescence and energy transfer process of Sr5(PO4)3Cl: Eu2+, Mn2+ via pressure-induced phase transition.	O
58	Ultrathin quantum light source with van der Waals NbOCl2 crystal. 2023 , 613, 53-59	2
57	Superconducting and structural properties of the phosphorus-rich Nb2P5 superconductor under high pressure.	O
56	Superconductivity in SrB3C3 clathrate. 2023 , 5,	0
55	Topologically prone or cation compression restricted phase transition: An example of feldspar-related SrGe2B2O8. 2023 , 938, 168642	O
54	Insulator-to-Superconductor Transition in Quasi-One-Dimensional HfS3 under Pressure. 2023 , 145, 1301-130	——————————————————————————————————————
53	Biaxial Hard Compression, Anisotropic Elastic Property, and Pressure-Induced Isosymmetric Phase Transition in Ammonium Bicarbonate. 2023 , 127, 831-841	O

52	Pressure-Induced Structural Phase Transitions in the Chromium Spinel LiInCr4O8 with Breathing Pyrochlore Lattice. 2023 , 13, 170	О
51	Pressure-Induced Reverse Structural Transition of Calcite at Temperatures up to 873 K and Pressures up to 19.7 GPa. 2023 , 13, 188	1
50	Rewritable Pressure-Driven np Conduction Switching in Marcasite-Type CrSb2.	О
49	High-Pressure Magnetic Properties and Electrical Transport Behaviors of Half-Metallic Ferromagnet CrO2.	О
48	Structural Stability and Electronic Transport Properties of Nb 2 C-MXenes under High Pressure. 2201071	O
47	Advancing neutron diffraction for accurate structural measurement of light elements at megabar pressures. 2023 , 13,	О
46	Magnetic Spin-Flop Transition of FeOOH at 8 GPa. 2023 , 92,	0
45	Experimental and theoretical revelation of a unique band topology in Sb2Te3 topological insulator by substitution of CuA high pressure stud. 2023 , 290, 116347	Ο
44	Structural and electronic properties of Weyl semimetal WTe2 under high pressure. 2023, 323, 124015	0
43	Nodeless Superconductivity in Kagome Metal CsV3Sb5 with and without Time Reversal Symmetry Breaking. 2023 , 23, 872-879	О
42	Pressure-mediated crystal-fluid interaction in the zeolite offretite. 2023 , 320, 123847	O
41	Ferrimagnetic coupling between cobalt and light rare-earth samarium induced by dense hydrogenation of SmCo5 permanent magnet under high pressures. 2023 , 7,	O
40	Pressure-induced structural transition and low-temperature recovery of sodium pentazolate. 2023 , 32, 046202	O
39	White Laue and powder diffraction studies to reveal mechanisms of HCP-to-BCC phase transformation in single crystals of Mg under high pressure. 2023 , 13,	O
38	Nitrogen impacts on structural stability of feldspar: Constraints from high temperature and high pressure spectroscopy and machine learning. 2023 , 336, 106997	O
37	Vibronic Relaxation Pathways in Molecular Spin Qubit Na9[Ho(W5O18)2]ß5H2O under Pressure. 2023 , 9, 53	O
36	Response of vibrational properties and thermal conductivity of perovskites to pressure. 2023 , 32, 101010	O
35	High-Pressure Structural and Thermodynamic Properties of Cerium Orthosilicates (CeSiO4). 2023 , 127, 4225-4238	O

34	Equations of State and Crystal Structures of KCaPO4, KSrPO4, and K2Ce(PO4)2 under High Pressure: Discovery of a New Polymorph of KCaPO4. 2023 , 23, 2782-2794	O
33	Anomalous polarization enhancement in a vdW ferroelectric material under pressure.	O
32	Eu2+-Doped Ca4Y3Si7O15N5 Phosphor with High Thermal Stability and Pressure Sensitivity for Dual-Functional Applications in W-LEDs and Pressure Sensors. 2023 , 62, 4361-4372	0
31	High-pressure studies of atomically thin van der Waals materials. 2023 , 10, 011313	O
30	Phase Transition of Zeolite X under High Pressure and Temperature. 2023, 56, 13-21	0
29	Experimental and Computational Study on the Effects of High Pressure on the Crystal Structure of Boron Nitrilotriacetate. 2023 , 23, 2745-2754	O
28	Structural Behavior of Minrecordite Carbonate Mineral upon Compression: Effect of Mg -lZn Chemical Substitution in Dolomite-Type Compounds. 2023 , 8, 10403-10410	O
27	Ultrafast dynamics under high-pressure. 2023 , 35, 253002	O
26	Pressure induced isostructural phase transition with volume expansion in DyFeO3 orthoferrite. 2023 , 122, 111601	0
25	Pressure-induced structural phase transitions in natural monazite. 2023 , 107,	O
24	Effects of Spin Transition and Cation Substitution on the Optical Properties and Iron Partitioning in Carbonate Minerals. 2023 , 97, 350-357	О
23	Superconductivity emerging from a pressurized van der Waals kagome material Pd3P2S8. 2023 , 25, 043001	O
22	Comparative structural evolution under pressure of powder and single crystals of the layered antiferromagnet FePS3. 2023 , 107,	O
21	Effect of pressure of vanadium nitride using XRD and DFT. 1-10	O
20	Effects of High Pressure on the Bandgap and the dd Crystal Field Transitions in Wolframite NiWO4. 2023 , 127, 6543-6551	O
19	Structure, Magnetotransport, and Theoretical Study on the Layered Antiferromagnet Topological Phase EuCd 2 As 2 under High Pressure. 2200128	O
18	Electrical transport under extreme conditions in the spin-ladder antiferromagnet TaFe1.25Te3. 2023 , 107,	О
17	Pressure-Induced Structural Phase Transition and Enhanced Interlayer Coupling in	O

CITATION REPORT

16	Giant Pressure-Induced Spectral Shift in Cyan-Emitting Eu 2+ -Activated Sr 8 Si 4 O 12 Cl 8 Microspheres for Ultrasensitive Visual Manometry.	0
15	Pressure-induced superconductivity in the photoelectric semiconductor BiSeI. 2023, 107,	o
14	Novel non-Joule heating technique: Externally laser-heated diamond anvil cell. 2023, 94, 043901	0
13	Pressure-induced ferroelectric-to-superconductor transition in SnPS3. 2023 , 107,	o
12	Pressure evolution of electronic and crystal structure of noncentrosymmetric EuCoGe3. 2023, 107,	0
11	Eu2+ and Mn2+ co-doped Lu2Mg2Al2Si2O12 phosphors for high sensitivity and multi-mode optical pressure sensing.	O
10	Lattice constants and magnetism of L10-ordered FePt under high pressure. 2023, 122, 152406	О
9	Pressure-induced insulator-to-metal transition in the van der Waals compound CoPS3. 2023 , 107,	О
8	Anisotropic thermal property characterizations and optical phonon contribution analysis of ZnO under high pressure. 2023 ,	О
7	On the anomalous high-pressure phase transition of inderite, MgB3O3(OH)55H2O. 2023 , 107187	O
6	Pressure-induced structural phase transition, irreversible amorphization and upconversion luminescence enhancement in Ln3+-codoped LiYF4 and LiLuF4.	О
5	Structural and electronic phase transition in the van der Waals crystal HfS2 under high pressure. 2023 , 107,	О
4	Arylazo under Extreme Conditions: [2 + 2] Cycloaddition and Azo Metathesis. 2023 , 127, 8482-8492	O
3	Solute Tsolvent repulsion effects on the absorption spectra of anthracene in n-hexane investigated under high pressure. 2023 , 299, 122822	O
2	Joint experimental and theoretical study of bulk Y2O3 at high pressure. 2023, 49, 106499	О
1	Shock standards Cu, Ag, Ir, and Pt in a wide pressure range. 2023 , 8,	О