

Changyong Park

List of Publications by Year in descending order

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154
papers

4,499
citations

76294

40
h-index

128225

60
g-index

159
all docs

159
docs citations

159
times ranked

5284
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous inner- and outer-sphere arsenate adsorption on corundum and hematite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1986-2004.	1.6	220
2	Hydration and Distribution of Ions at the Mica-Water Interface. <i>Physical Review Letters</i> , 2006, 97, 016101.	2.9	142
3	Atomistic insight into viscosity and density of silicate melts under pressure. <i>Nature Communications</i> , 2014, 5, 3241.	5.8	133
4	Hydrated Cation Speciation at the Muscovite (001)-Water Interface. <i>Langmuir</i> , 2010, 26, 16647-16651.	1.6	126
5	Ultralow viscosity of carbonate melts at high pressures. <i>Nature Communications</i> , 2014, 5, 5091.	5.8	124
6	Bridging arsenate surface complexes on the hematite (012) surface. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1883-1897.	1.6	103
7	Termination and Water Adsorption at the α -Al ₂ O ₃ (012)-Aqueous Solution Interface. <i>Langmuir</i> , 2006, 22, 4668-4673.	1.6	99
8	Sb ₂ Se ₃ under pressure. <i>Scientific Reports</i> , 2013, 3, 2665.	1.6	97
9	Toward comprehensive studies of liquids at high pressures and high temperatures: Combined structure, elastic wave velocity, and viscosity measurements in the Paris-Edinburgh cell. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 269-280.	0.7	96
10	Pressure-induced phase transitions and metallization in VO ₂ . <i>Physical Review B</i> , 2015, 91, .	1.4	82
11	Sound velocity of Fe-S liquids at high pressure: Implications for the Moon's molten outer core. <i>Earth and Planetary Science Letters</i> , 2014, 396, 78-87.	1.8	80
12	Structure of the orthoclase (001)- and (010)-water interfaces by high-resolution X-ray reflectivity. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4267-4275.	1.6	79
13	Interfacial water structure on the (012) surface of hematite: Ordering and reactivity in comparison with corundum. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5313-5324.	1.6	79
14	Structure and oxidation state of hematite surfaces reacted with aqueous Fe(II) at acidic and neutral pH. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1498-1512.	1.6	76
15	Probing Outer-Sphere Adsorption of Aqueous Metal Complexes at the Oxide-Water Interface with Resonant Anomalous X-Ray Reflectivity. <i>Physical Review Letters</i> , 2005, 94, 076104.	2.9	74
16	Phasing of resonant anomalous X-ray reflectivity spectra and direct Fourier synthesis of element-specific partial structures at buried interfaces. <i>Journal of Applied Crystallography</i> , 2007, 40, 290-301.	1.9	73
17	Structural Study of Pd-Based Amorphous Alloys with Wide Supercooled Liquid Region by Anomalous X-ray Scattering. <i>Materials Transactions, JIM</i> , 1999, 40, 491-497.	0.9	72
18	Redox response of actinide materials to highly ionizing radiation. <i>Nature Communications</i> , 2015, 6, 6133.	5.8	72

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19	Effect of helium on structure and compression behavior of SiO ₂ glass. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6004-6007.	3.3	67
20	Universal Fractional Noncubic Power Law for Density of Metallic Glasses. Physical Review Letters, 2014, 112, 185502.	2.9	64
21	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. Applied Physics Letters, 2017, 110, .	1.5	62
22	Observation of subnanometre-high surface topography with X-ray reflection phase-contrast microscopy. Nature Physics, 2006, 2, 700-704.	6.5	60
23	Thermodynamics, Interfacial Structure, and pH Hysteresis of Rb ⁺ and Sr ²⁺ Adsorption at the Muscovite (001)â€”Solution Interface. Langmuir, 2008, 24, 13993-14004.	1.6	58
24	Water ordering and surface relaxations at the hematite (110)â€”water interface. Geochimica Et Cosmochimica Acta, 2009, 73, 2242-2251.	1.6	58
25	High-pressure x-ray diffraction studies on the structure of liquid silicate using a Parisâ€”Edinburgh type large volume press. Review of Scientific Instruments, 2011, 82, 015103.	0.6	58
26	Nanoarchitected materials composed of fullerene-like spheroids and disordered graphene layers with tunable mechanical properties. Nature Communications, 2015, 6, 6212.	5.8	57
27	Simultaneous structure and elastic wave velocity measurement of SiO ₂ glass at high pressures and high temperatures in a Paris-Edinburgh cell. Review of Scientific Instruments, 2012, 83, 033905.	0.6	56
28	Orthoclase dissolution kinetics probed by in situ X-ray reflectivity: effects of temperature, pH, and crystal orientation. Geochimica Et Cosmochimica Acta, 2003, 67, 197-211.	1.6	52
29	Structure and reactivity of the dolomite (104)â€”water interface: New insights into the dolomite problem. Geochimica Et Cosmochimica Acta, 2007, 71, 566-579.	1.6	51
30	Structure and density of molten fayalite at high pressure. Geochimica Et Cosmochimica Acta, 2013, 118, 118-128.	1.6	51
31	General 2.5 power law of metallic glasses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1714-1718.	3.3	50
32	Pressure-induced iso-structural phase transition and metallization in WSe ₂ . Scientific Reports, 2017, 7, 46694.	1.6	50
33	Partial Structural Functions of Molten CuBr Estimated from the Anomalous X-Ray Scattering Measurements. Journal of the Physical Society of Japan, 1997, 66, 633-640.	0.7	49
34	Crystal structures, elastic properties, and hardness of high-pressure synthesized CrB ₂ and CrB ₄ . Journal of Superhard Materials, 2014, 36, 279-287.	0.5	49
35	On the use of CCD area detectors for high-resolution specular X-ray reflectivity. Journal of Synchrotron Radiation, 2006, 13, 293-303.	1.0	47
36	Competitive adsorption of strontium and fulvic acid at the muscoviteâ€”solution interface observed with resonant anomalous X-ray reflectivity. Geochimica Et Cosmochimica Acta, 2010, 74, 1762-1776.	1.6	47

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37	Structure of the fluorapatite (100)-water interface by high-resolution X-ray reflectivity. <i>American Mineralogist</i> , 2004, 89, 1647-1654.	0.9	45
38	New developments in micro-X-ray diffraction and X-ray absorption spectroscopy for high-pressure research at 16-BM-D at the Advanced Photon Source. <i>Review of Scientific Instruments</i> , 2015, 86, 072205.	0.6	45
39	Pressure-induced reemergence of superconductivity in topological insulator $\text{SrO}_{0.065}\text{Bi}_2\text{Se}_3$. <i>Physical Review B</i> , 2016, 93, .	1.1	44
40	Enhanced Uptake and Modified Distribution of Mercury(II) by Fulvic Acid on the Muscovite (001) Surface. <i>Environmental Science & Technology</i> , 2009, 43, 5295-5300.	4.6	43
41	Irreversible xenon insertion into a small-pore zeolite at moderate pressures and temperatures. <i>Nature Chemistry</i> , 2014, 6, 835-839.	6.6	42
42	Defect accumulation in ThO_2 irradiated with swift heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 326, 169-173.	0.6	41
43	Structure of jadeite melt at high pressures up to 4.9 GPa. <i>Journal of Applied Physics</i> , 2012, 111, 112623.	1.1	39
44	High-pressure viscosity of liquid Fe and FeS revisited by falling sphere viscometry using ultrafast X-ray imaging. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 241, 57-64.	0.7	38
45	Charge transfer in spinel Co_3O_4 at high pressures. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 435401.	0.7	36
46	Characterization of ion-induced radiation effects in nuclear materials using synchrotron x-ray techniques. <i>Journal of Materials Research</i> , 2015, 30, 1366-1379.	1.2	36
47	Heavy Metal Sorption at the Muscovite (001)–Fulvic Acid Interface. <i>Environmental Science & Technology</i> , 2011, 45, 9574-9581.	4.6	35
48	Topological Dirac line nodes and superconductivity coexist in SnSe at high pressure. <i>Physical Review B</i> , 2017, 96, .	1.1	35
49	Contrasting sound velocity and intermediate-range structural order between polymerized and depolymerized silicate glasses under pressure. <i>Earth and Planetary Science Letters</i> , 2014, 391, 288-295.	1.8	34
50	Pressure-induced Metallization and Robust Superconductivity in Pristine 1T-SnSe_2 . <i>Advanced Electronic Materials</i> , 2018, 4, 1800155.	2.6	33
51	Resonant anomalous X-ray reflectivity as a probe of ion adsorption at solid–liquid interfaces. <i>Thin Solid Films</i> , 2007, 515, 5654-5659.	0.8	30
52	A metastable liquid melted from a crystalline solid under decompression. <i>Nature Communications</i> , 2017, 8, 14260.	5.8	26
53	Anomaly in the viscosity of liquid KCl at high pressures. <i>Physical Review B</i> , 2013, 87, .	1.1	25
54	<i>In situ</i> defect annealing of swift heavy ion irradiated CeO_2 and ThO_2 using synchrotron X-ray diffraction and a hydrothermal diamond anvil cell. <i>Journal of Applied Crystallography</i> , 2015, 48, 711-717.	1.9	25

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55	Pressure-induced superconductivity in topological semimetal NbAs ₂ . <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	25
56	Image contrast in X-ray reflection interface microscopy: comparison of data with model calculations and simulations. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 558-571.	1.0	23
57	Calcium with the Å-tin structure at high pressure and low temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16459-16462.	3.3	23
58	Pressure-tunable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11623-11628.	7.2	22
59	Partial Structural Functions of Liquid Bi ₃₀ Ga ₇₀ Alloy Estimated from the Anomalous X-Ray Scattering Measurement in Asymmetrical Reflection Geometry with Synchrotron Radiation. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 3120-3126.	0.7	21
60	Note: A novel method for <i>in situ</i> loading of gases via x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2011, 82, 106102.	0.6	21
61	Measurement of the Energy Dependence of X-ray-Induced Decomposition of Potassium Chlorate.. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2302-2306.	1.1	21
62	Adsorption of Rb ⁺ and Sr ²⁺ at the orthoclase (001)-solution interface. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1848-1863.	1.6	20
63	Anomalous elastic properties across the f ³ to f [±] volume collapse in cerium. <i>Nature Communications</i> , 2017, 8, 1198.	5.8	20
64	Long-Range Ordered Amorphous Atomic Chains as Building Blocks of a Superconducting Quasi-One-Dimensional Crystal. <i>Advanced Materials</i> , 2020, 32, e2002352.	11.1	20
65	Termination interference along crystal truncation rods of layered crystals. <i>Journal of Applied Crystallography</i> , 2004, 37, 977-987.	1.9	19
66	Fulvic Acid Sorption on Muscovite Mica as a Function of pH and Time Using In Situ X-ray Reflectivity. <i>Langmuir</i> , 2008, 24, 7817-7829.	1.6	19
67	Rb ⁺ and Sr ²⁺ Adsorption at the TiO ₂ (110)-Electrolyte Interface Observed with Resonant Anomalous X-ray Reflectivity. <i>Langmuir</i> , 2010, 26, 950-958.	1.6	19
68	Strain engineered pyrochlore at high pressure. <i>Scientific Reports</i> , 2017, 7, 2236.	1.6	19
69	Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. <i>Physical Review B</i> , 2019, 100, .	1.1	19
70	Note: Experiments in hard x-ray chemistry: <i>in situ</i> production of molecular hydrogen and x-ray induced combustion. <i>Review of Scientific Instruments</i> , 2012, 83, 036102.	0.6	17
71	Optimizing a flow-through X-ray transmission cell for studies of temporal and spatial variations of ion distributions at mineral-water interfaces. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 125-136.	1.0	17
72	Pressure-induced cation-cation bonding in V_2O_3 . <i>Physical Review B</i> , 2015, 92, .	1.1	17

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73	Quasicrystals at extreme conditions: The role of pressure in stabilizing icosahedral Al ₆₃ Cu ₂₄ Fe ₁₃ at high temperature. American Mineralogist, 2015, 100, 2412-2418.	0.9	17
74	Novel Superstructure-Phase Two-Dimensional Material 1T-VSe ₂ at High Pressure. Journal of Physical Chemistry Letters, 2020, 11, 380-386.	2.1	17
75	Reverse Monte Carlo Simulation for Determining the Partial Structural Functions of GeO ₂ Glass from the Anomalous X-ray Scattering and Neutron Diffraction Data. Materials Transactions, JIM, 1999, 40, 552-555.	0.9	16
76	Termination and hydration of forsteritic olivine (0 1 0) surface. Geochimica Et Cosmochimica Acta, 2014, 145, 268-280.	1.6	16
77	X-ray Diffraction, Lattice Structure, and Equation of State of PdH _x and Pd _x to Megabar Pressures. Journal of Physical Chemistry C, 2017, 121, 27327-27331.	1.5	16
78	Interaction of muscovite (001) with Pu ³⁺ bearing solutions at pH 3 through ex-situ observations. Geochimica Et Cosmochimica Acta, 2010, 74, 6984-6995.	1.6	15
79	Contrasting behavior of intermediate-range order structures in jadeite glass and melt. Physics of the Earth and Planetary Interiors, 2014, 228, 281-286.	0.7	15
80	Stability limits and transformation pathways of $\hat{i}\hat{\pm}$ -quartz under high pressure. Physical Review B, 2017, 95, .	1.1	15
81	Probing interfacial reactions with X-ray reflectivity and X-ray reflection interface microscopy: Influence of NaCl on the dissolution of orthoclase at pOH 2 and 85Å°C. Geochimica Et Cosmochimica Acta, 2010, 74, 3396-3411.	1.6	14
82	Strength and Debye temperature measurements of cerium across the $\hat{i}^3 \hat{\alpha}' \hat{i}^{\pm}$ volume collapse: the lattice contribution. Journal of Physics Condensed Matter, 2013, 25, 345401.	0.7	14
83	Kinetics of the B1-B2 phase transition in KCl under rapid compression. Journal of Applied Physics, 2016, 119, 045902.	1.1	14
84	Structural characteristic correlated to the electronic band gap in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Mo} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2016, 94, .	1.1	14
85	A high pressure, high temperature study of 1,1-diamino-2,2-dinitro ethylene. High Pressure Research, 2011, 31, 80-85.	0.4	13
86	Multiple pressure-induced transitions in HgCr ₂ S ₄ . Applied Physics Letters, 2013, 103, 201908.	1.5	13
87	Pressure induced second-order structural transition in Sr ₃ Ir ₂ O ₇ . Journal of Physics Condensed Matter, 2014, 26, 215402.	0.7	13
88	X-ray imaging for studying behavior of liquids at high pressures and high temperatures using Paris-Edinburgh press. Review of Scientific Instruments, 2015, 86, 072207.	0.6	13
89	Robust high pressure stability and negative thermal expansion in sodium-rich antiperovskites Na ₃ OBr and Na ₄ OI ₂ . Journal of Applied Physics, 2016, 119, .	1.1	13
90	Phase transition induced strain in ZnO under high pressure. Scientific Reports, 2016, 6, 24958.	1.6	13

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91	High pressure Laue diffraction and its application to study microstructural changes during the $\hat{1}\pm\hat{a}\uparrow\hat{1}^2$ phase transition in Si. Review of Scientific Instruments, 2015, 86, 072204.	0.6	12
92	Pressure-induced phase transitions and insulator-metal transitions in VO ₂ nanoparticles. Journal of Alloys and Compounds, 2017, 709, 260-266.	2.8	12
93	Pressure-induced anomalous enhancement of insulating state and isosymmetric structural transition in quasi-one-dimensional $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ti} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2017, 96, .	1.1	12
94	Compressibility and thermoelectric behavior of TiCoSb half-Heusler compound at high pressures. Intermetallics, 2018, 95, 137-143.	1.8	12
95	Tuning magnetic coercivity with external pressure in iron-rhenium based ferrimagnetic double perovskites. Physical Review B, 2018, 98, .	1.1	12
96	Pressure-Induced Enhancement of Thermoelectric Figure of Merit and Structural Phase Transition in TiNiSn. Journal of Physical Chemistry Letters, 2021, 12, 1046-1051.	2.1	12
97	Multiscale twin hierarchy in NiMnGa shape memory alloys with Fe and Cu. Acta Materialia, 2015, 87, 344-349.	3.8	11
98	Pressure-induced phase transitions of $\hat{1}^2$ -type pyrochlore CsTaWO ₆ . RSC Advances, 2016, 6, 94287-94293.	1.7	11
99	Inner-shell chemistry under high pressure. Japanese Journal of Applied Physics, 2017, 56, 05FA10.	0.8	11
100	Pressurizing the HgCr ₂ Se ₄ spinel at room temperature. Applied Physics Letters, 2014, 104, 011911.	1.5	10
101	Radiation-induced disorder in compressed lanthanide zirconates. Physical Chemistry Chemical Physics, 2018, 20, 6187-6197.	1.3	10
102	Local structure of NiPd solid solution alloys and its response to ion irradiation. Journal of Alloys and Compounds, 2018, 755, 242-250.	2.8	10
103	Swift-heavy ion irradiation response and annealing behavior of A ₂ TiO ₅ (A = Nd, Gd, and Yb). Journal of Solid State Chemistry, 2018, 258, 108-116.	1.4	10
104	Observation of 9-Fold Coordinated Amorphous TiO ₂ at High Pressure. Journal of Physical Chemistry Letters, 2020, 11, 374-379.	2.1	10
105	Nonclassical Behavior in Competitive Ion Adsorption at a Charged Solid-Water Interface. Journal of Physical Chemistry Letters, 2020, 11, 4029-4035.	2.1	10
106	The stability of subducted glaucophane with the Earth's secular cooling. Nature Communications, 2021, 12, 1496.	5.8	10
107	The Role of Atmosphere on Phase Transformations and Magnetic Properties of Ulvospinel. IEEE Transactions on Magnetics, 2013, 49, 4273-4276.	1.2	9
108	Pressure-induced elastic anomaly in a polyamorphous metallic glass. Applied Physics Letters, 2017, 110, .	1.5	9

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109	Effect of defects on reaction of NiO surface with Pb-contained solution. Scientific Reports, 2017, 7, 44805.	1.6	9
110	Pressure-induced topological insulator-to-metal transition and superconductivity in Sn-doped $B_j S_b$. Scientific Reports, 2017, 7, 44805.	1.1	9
111	Room-temperature compression and equation of state of body-centered cubic zirconium. Journal of Physics Condensed Matter, 2020, 32, 12LT02.	0.7	9
112	The Hydration Structure at Yttria-Stabilized Cubic Zirconia (110)-Water Interface with Sub-Ångström Resolution. Scientific Reports, 2016, 6, 27916.	1.6	8
113	Giant Pressure-Induced Enhancement of Seebeck Coefficient and Thermoelectric Efficiency in SnTe. ChemPhysChem, 2017, 18, 3315-3319.	1.0	8
114	Probing disorder in high-pressure cubic tin (IV) oxide: a combined X-ray diffraction and absorption study. Journal of Synchrotron Radiation, 2019, 26, 1245-1252.	1.0	8
115	Resonant X-ray scattering studies of epitaxial complex oxide thin films. Journal of Applied Crystallography, 2013, 46, 76-87.	1.9	7
116	The influence of pressure on the phase stability of nanocomposite Fe ₈₉ Zr ₇ B ₄ during heating from energy dispersive x-ray diffraction. Journal of Applied Physics, 2013, 113, 17A317.	1.1	7
117	High pressure and temperature equation of state and spectroscopic study of CeO ₂ . Journal of Physics Condensed Matter, 2016, 28, 155401.	0.7	7
118	Phonon density of states of single-crystal SrFe ₂ As ₂ . Physical Review B, 2016, 94, .	1.1	7
119	High-pressure Seebeck coefficients and thermoelectric behaviors of Bi and PbTe measured using a Paris-Edinburgh cell. Journal of Synchrotron Radiation, 2016, 23, 1368-1378.	1.0	7
120	Shear-driven instability in zirconium at high pressure and temperature and its relationship to phase-boundary behaviors. Physical Review B, 2017, 95, .	1.1	7
121	Pressure induced transformation and subsequent amorphization of monoclinic Nb ₂ O ₅ and its effect on optical properties. Journal of Physics Condensed Matter, 2019, 31, 105401.	0.7	7
122	Hybrid Double Perovskite Containing Helium: [He ₂][CaZrF ₆]. Chemistry of Materials, 2021, 33, 3132-3138.	3.2	7
123	A ₂ TiO ₅ (A = Dy, Gd, Er, Yb) at High Pressure. Inorganic Chemistry, 2018, 57, 2269-2277.	1.9	6
124	Cationic Dependence of X-ray Induced Damage in Strontium and Barium Nitrate. Journal of Physical Chemistry A, 2018, 122, 8722-8728.	1.1	6
125	Anomalous X-ray Scattering (AXS) Study on the Local Ordering Structure around Ni and Cu in Amorphous Pd ₄₀ Ni ₁₀ Cu ₃₀ P ₂₀ Alloy. Japanese Journal of Applied Physics, 1999, 38, 448.	0.8	6
126	In-situ synchrotron x-ray study of phase transitions in melamine under high pressures and high temperatures. Diamond and Related Materials, 2011, 20, 1090-1092.	1.8	5

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127	Equation of state measurements by radiography provide evidence for a liquid-liquid phase transition in cerium. <i>Journal of Physics: Conference Series</i> , 2014, 500, 032011.	0.3	5
128	Orientation-Dependent Hydration Structures at Yttria-Stabilized Cubic Zirconia Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29089-29097.	1.5	5
129	Phase transformations, microstructural refinement and defect evolution mechanisms in Al-Si alloys under non-hydrostatic diamond anvil cell compression. <i>Materialia</i> , 2021, 15, 101049.	1.3	5
130	Tunable multiferroic order parameters in $Sr_{1-x}Bi_xFe_2O_{7-\delta}$. <i>Journal of Applied Physics</i> , 2019, 125, 154102.	1.1	5
131	High-density transition layer in oxynitride interfaces on Si(100). <i>Applied Physics Letters</i> , 1999, 75, 3775-3777.	1.5	4
132	High pressure structural study of samarium doped CeO ₂ oxygen vacancy conductor: Insight into the dopant concentration relationship to the strain effect in thin film ionic conductors. <i>Solid State Ionics</i> , 2016, 292, 59-65.	1.3	4
133	X-ray absorption investigation of local structural disorder in Ni _{1-x} Fe _x ($x=0.10, 0.20, 0.35, \text{ and } 0.50$) alloys. <i>Journal of Applied Physics</i> , 2017, 121, 165105.	1.1	4
134	Anomalous Conductivity in the Rutile Structure Driven by Local Disorder. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5351-5356.	2.1	4
135	Real time study of grain enlargement in zirconium under room-temperature compression across the β_1 to β_2 phase transition. <i>Scientific Reports</i> , 2019, 9, 15712.	1.6	4
136	Effect of pressure on structural and electronic properties of the noncentrosymmetric superconductor Rh ₂ Mo ₃ N. <i>Physical Review B</i> , 2019, 100, .	1.1	4
137	High-pressure structural behavior and elastic properties of U ₃ Si ₅ : A combined synchrotron XRD and DFT study. <i>Journal of Nuclear Materials</i> , 2020, 540, 152373.	1.3	4
138	Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO ₃ . <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	4
139	Shear strength measurements and hydrostatic compression of rhenium diboride under high pressures. <i>Journal of Applied Physics</i> , 2021, 129, 205901.	1.1	4
140	High pressure stability of β_2 -Zr: no evidence for isostructural phase transitions. <i>High Pressure Research</i> , 2021, 41, 247-266.	0.4	4
141	Structural Study of Amorphous Fe ₈₉ Nd ₇ B ₄ and Fe ₈₉ Zr ₇ B ₄ Alloys by X-ray Diffraction. <i>High Temperature Materials and Processes</i> , 1997, 16, 57-64.	0.6	3
142	Partial structural functions of binary liquids estimated from anomalous X-ray scattering measurements. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 923-925.	1.0	3
143	Prolonged mixed phase induced by high pressure in MnRuP. <i>Physical Review B</i> , 2018, 97, .	1.1	3
144	Experimental observations of large changes in electron density distributions in β_2 -Ge. <i>Physical Review B</i> , 2019, 100, .	1.1	3

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145	X-Ray Diffraction and Electron Microscopy Studies of the Size Effects on Pressure-Induced Phase Transitions in CdS Nanocrystals. MRS Advances, 2020, 5, 2447-2455.	0.5	3
146	Characterization of zirconium carbide microspheres synthesized via internal gelation. Journal of Nuclear Materials, 2021, 557, 153218.	1.3	3
147	Prevalence of pretransition disordering in the rutile-to- CaCl_2 phase transition of GeO_2 . Physical Review B, 2021, 104, .	1.1	2
148	Systematic structural study in praseodymium compressed in a neon pressure medium up to 185 GPa. Physical Review B, 2022, 105, .	1.1	2
149	In situ x-ray diffraction, electrical resistivity and thermal measurements using a Paris-Edinburgh cell at HPCAT 16BM-B beamline. Journal of Physics: Conference Series, 2014, 500, 142003.	0.3	1
150	Zinc Adsorption and Hydration Structures at Yttria-Stabilized Zirconia Surfaces. Journal of Physical Chemistry C, 2017, 121, 21305-21310.	1.5	1
151	Forcing Cesium into Higher Oxidation States Using Useful hard x-ray Induced Chemistry under High Pressure. Journal of Physics: Conference Series, 2017, 950, 042055.	0.3	0
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