

Leonid Dubrovinsky

List of Publications by Year in Descending Order

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

412
papers

11,559
citations

57
h-index

86
g-index

440
ext. papers

13,034
ext. citations

5.7
avg, IF

6.21
L-index

#	Paper	IF	Citations
412	A reentrant phase transition and a novel polymorph revealed in high-pressure investigations of CF up to 46.5 GPa.. <i>Journal of Chemical Physics</i> , 2022 , 156, 044503	3.9	0
411	Testing the performance of secondary anvils shaped with focused ion beam from the single-crystal diamond for use in double-stage diamond anvil cells.. <i>Review of Scientific Instruments</i> , 2022 , 93, 033904	1.7	
410	Sub-micrometer focusing setup for high-pressure crystallography at the Extreme Conditions beamline at PETRA III.. <i>Journal of Synchrotron Radiation</i> , 2022 , 29, 654-663	2.4	0
409	Equations of state of Fe_2C (6H) and $\text{Fe-Mg}_2\text{Si}_{1.1}$ from single-crystal X-ray diffraction data and novel high-pressure magnesium silicide Mg_2Si_7 . <i>Physics and Chemistry of Minerals</i> , 2022 , 49, 1	1.6	2
408	Materials synthesis at terapascal static pressures.. <i>Nature</i> , 2022 , 605, 274-278	50.4	4
407	In situ high-pressure nuclear magnetic resonance crystallography in one and two dimensions. <i>Matter and Radiation at Extremes</i> , 2021 , 6, 068402	4.7	2
406	Stabilization of Polynitrogen Anions in Tantalum-Nitrogen Compounds at High Pressure. <i>Angewandte Chemie</i> , 2021 , 133, 9085-9090	3.6	1
405	Polymorphs of the Gadolinite-Type Borates ZrBO_3 and HfBO_3 Under Extreme Pressure. <i>Chemistry - A European Journal</i> , 2021 , 27, 6007-6014	4.8	2
404	Stabilization of Polynitrogen Anions in Tantalum-Nitrogen Compounds at High Pressure. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9003-9008	16.4	6
403	Revealing the Complex Nature of Bonding in the Binary High-Pressure Compound FeO_2 . <i>Physical Review Letters</i> , 2021 , 126, 106001	7.4	6
402	Synthesis of calcium orthocarbonate, Ca_2CO_4 -Pnma at p, T-conditions of Earth's transition zone and lower mantle. <i>American Mineralogist</i> , 2021 ,	2.9	9
401	High-Pressure Synthesis of Dirac Materials: Layered van der Waals Bonded BeN_4 Polymorph. <i>Physical Review Letters</i> , 2021 , 126, 175501	7.4	22
400	Synthesis and Compressibility of Novel Nickel Carbide at Pressures of Earth's Outer Core. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 516	2.4	2
399	Isothermal equation of state of crystalline and glassy materials from optical measurements in diamond anvil cells. <i>Review of Scientific Instruments</i> , 2021 , 92, 063907	1.7	2
398	Crystal Structure Evolution of Slawsonite $\text{SrAl}_2\text{Si}_2\text{O}_8$ and Paracelsian $\text{BaAl}_2\text{Si}_2\text{O}_8$ upon Compression and Decompression. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13014-13023	3.8	1
397	Chemical Stability of FeOOH at High Pressure and Temperature, and Oxygen Recycling in Early Earth History**. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 3048-3053	2.3	5
396	Discovery of Elgoesyite, $(\text{Mg,Fe})_5\text{Si}_2\text{O}_9$: Implications for Novel Iron-Magnesium Silicates in Rocky Planetary Interiors. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 2124-2130	3.2	3

395	Nitro-sonium nitrate (NONO ⁺) structure solution using single-crystal X-ray diffraction in a diamond anvil cell. <i>IUCrJ</i> , 2021 , 8, 208-214	4.7	3
394	High-pressure syntheses and crystal structure analyses of a new low-density CaFe ₂ O ₄ -related and CaTi ₂ O ₄ -type MgAl ₂ O ₄ phases. <i>American Mineralogist</i> , 2021 , 106, 1105-1112	2.9	1
393	Structural Stability and Properties of Marokite-Type $\bar{3}MnO$. <i>Inorganic Chemistry</i> , 2021 , 60, 13440-13452	5.1	0
392	Synthesis of Ilmenite-type $\bar{3}MnO$ and Its Properties. <i>Inorganic Chemistry</i> , 2021 , 60, 13348-13358	5.1	0
391	High-Pressure Yttrium Nitride, Y ₅ N ₁₄ , Featuring Three Distinct Types of Nitrogen Dimers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18077-18084	3.8	1
390	High-Pressure Synthesis of the $\bar{3}Zn$ Nitride and the $\bar{3}Zn$ and $\bar{3}Zn$ Polynitrogen Compounds. <i>Inorganic Chemistry</i> , 2021 , 60, 14594-14601	5.1	1
389	Novel High-Pressure Yttrium Carbide $\bar{4}Y_4C_5$ Containing [C ₂] and Nonlinear [C ₃] Units with Unusually Large Formal Charges. <i>Physical Review Letters</i> , 2021 , 127, 135501	7.4	1
388	Synthesis, crystal structure and structure-property relations of strontium orthocarbonate, Sr ₂ CO ₄ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021 , 77, 131-137	1.8	9
387	Structural Study of $\bar{4}AlOOH$ Up to 29 GPa. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 1055	2.4	3
386	Proton mobility in metallic copper hydride from high-pressure nuclear magnetic resonance. <i>Physical Review B</i> , 2020 , 102,	3.3	4
385	Polymorphism of feldspars above 10 GPa. <i>Nature Communications</i> , 2020 , 11, 2721	17.4	6
384	High-Pressure Polymeric Nitrogen Allotrope with the Black Phosphorus Structure. <i>Physical Review Letters</i> , 2020 , 124, 216001	7.4	49
383	Seismic detectability of carbonates in the deep Earth: A nuclear inelastic scattering study. <i>American Mineralogist</i> , 2020 , 105, 325-332	2.9	7
382	High-Pressure Synthesis of Metal-Inorganic Frameworks Hf ₄ N ₂₀ N ₂ , WN ₈ N ₂ , and Os ₅ N ₂₈ N ₂ with Polymeric Nitrogen Linkers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10321-10326	16.4	17
381	Face-Centered Cubic Refractory Alloys Prepared from Single-Source Precursors. <i>Materials</i> , 2020 , 13,	3.5	1
380	High-Pressure Synthesis of Metal-Inorganic Frameworks Hf ₄ N ₂₀ N ₂ , WN ₈ N ₂ , and Os ₅ N ₂₈ N ₂ with Polymeric Nitrogen Linkers. <i>Angewandte Chemie</i> , 2020 , 132, 10407-10412	3.6	4
379	Innenrücktitelbild: High-Pressure Synthesis of Metal-Inorganic Frameworks Hf ₄ N ₂₀ N ₂ , WN ₈ N ₂ , and Os ₅ N ₂₈ N ₂ with Polymeric Nitrogen Linkers (Angew. Chem. 26/2020). <i>Angewandte Chemie</i> , 2020 , 132, 10753-10753	3.6	
378	The Effect of Pulsed Laser Heating on the Stability of Ferropericlae at High Pressures. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 542	2.4	1

377	Elastic properties of majoritic garnet inclusions in diamonds and the seismic signature of pyroxenites in the Earth's upper mantle. <i>American Mineralogist</i> , 2020 , 105, 984-991	2.9	1
376	Synthesis of palladium carbides and palladium hydride in laser heated diamond anvil cells. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156179	5.7	5
375	Raman Spectroscopy Study on Chemical Transformations of Propane at High Temperatures and High Pressures. <i>Scientific Reports</i> , 2020 , 10, 1483	4.9	5
374	Interaction Between FeOOH and NaCl at Extreme Conditions: Synthesis of Novel Na ₂ FeCl ₄ O _H _x Compound. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 51	2.4	1
373	Stability and Solubility of the FeAlO ₃ Component in Bridgmanite at Uppermost Lower Mantle Conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018447	3.6	6
372	Innentitelbild: A Room-Temperature Verwey-type Transition in Iron Oxide, Fe ₅ O ₆ (Angew. Chem. 14/2020). <i>Angewandte Chemie</i> , 2020 , 132, 5450-5450	3.6	
371	Recreating Giants Impacts in the Laboratory: Shock Compression of Bridgmanite to 14 Mbar. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085476	4.9	12
370	Stability of a Petroleum-Like Hydrocarbon Mixture at Thermobaric Conditions That Correspond to Depths of 50 km. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 355	2.4	3
369	Compressibility of hinganite-(Y): high-pressure single crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2020 , 47, 1	1.6	2
368	A portable on-axis laser-heating system for near-90° X-ray spectroscopy: application to ferropericlase and iron silicide. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 414-424	2.4	8
367	The crystal structures of Fe-bearing MgCO ₃ and -carbonates at 98 GPa from single-crystal X-ray diffraction using synchrotron radiation. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020 , 76, 715-719	0.7	3
366	Nitride Spinel: An Ultraincompressible High-Pressure Form of BeP ₂ N ₄ . <i>Angewandte Chemie</i> , 2020 , 132, 2752-2756	3.6	2
365	Nitride Spinel: An Ultraincompressible High-Pressure Form of BeP N. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2730-2734	16.4	7
364	Decomposition of single-source precursors under high-temperature high-pressure to access osmium-platinum refractory alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152121	5.7	6
363	A Room-Temperature Verwey-type Transition in Iron Oxide, Fe ₅ O ₆ . <i>Angewandte Chemie</i> , 2020 , 132, 5681-5685	3.6	1
362	High-pressure, high-temperature phase stability of iron-poor dolomite and the structures of dolomite-IIIc and dolomite-V. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 299, 106403	2.3	12
361	A Room-Temperature Verwey-type Transition in Iron Oxide, Fe ₅ O ₆ . <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5632-5636	16.4	12
360	Novel sulfur hydrides synthesized at extreme conditions. <i>Physical Review B</i> , 2020 , 102,	3.3	16

359	Pressure-Induced Phase Transitions in Danburite-Type Borosilicates. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26048-26061	3.8	2
358	High compressibility of synthetic analogous of binary iridium-ruthenium and ternary iridium-bismuth-ruthenium minerals. <i>Materialia</i> , 2020 , 14, 100920	3.2	1
357	Nuclear spin coupling crossover in dense molecular hydrogen. <i>Nature Communications</i> , 2020 , 11, 6334	17.4	3
356	Novel Rhenium Carbides at 200 GPa. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 2186-2190	2.3	6
355	Local Structure of Ferrous Iron Formates at Low Temperature and High Pressure Studied by Mössbauer Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21676-21684	3.8	3
354	High pressure phase transitions of paracelsian BaAlSiO. <i>Scientific Reports</i> , 2019 , 9, 12652	4.9	10
353	A versatile diamond anvil cell for X-ray inelastic, diffraction and imaging studies at synchrotron facilities. <i>Review of Scientific Instruments</i> , 2019 , 90, 095107	1.7	1
352	Laser heating setup for diamond anvil cells for in situ synchrotron and in house high and ultra-high pressure studies. <i>Review of Scientific Instruments</i> , 2019 , 90, 104501	1.7	27
351	Synthesis of magnesium-nitrogen salts of polynitrogen anions. <i>Nature Communications</i> , 2019 , 10, 4515	17.4	39
350	High Pressure Investigation of the S-N System up to the Megabar Range: Synthesis and Characterization of the SN Solid. <i>Inorganic Chemistry</i> , 2019 , 58, 9195-9204	5.1	10
349	Penta- and hexa-coordinated beryllium and phosphorus in high-pressure modifications of CaBePO. <i>Nature Communications</i> , 2019 , 10, 2800	17.4	12
348	Magnetism in cold subducting slabs at mantle transition zone depths. <i>Nature</i> , 2019 , 570, 102-106	50.4	11
347	Boron Phosphorus Nitride at Extremes: PN Octahedra in the High-Pressure Polymorph β PN. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9060-9063	16.4	7
346	Boron Phosphorus Nitride at Extremes: PN ₆ Octahedra in the High-Pressure Polymorph β PN ₆ . <i>Angewandte Chemie</i> , 2019 , 131, 9158-9161	3.6	6
345	Comparative study of the influence of pulsed and continuous wave laser heating on the mobilization of carbon and its chemical reaction with iron in a diamond anvil cell. <i>Journal of Applied Physics</i> , 2019 , 125, 095901	2.5	12
344	Equations of state of rhodium, iridium and their alloys up to 70 GPa. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 212-218	5.7	10
343	Single-crystal diffractometer coupled with double-sided laser heating system at the Extreme Conditions Beamline P02.2 at PETRAIII. <i>Review of Scientific Instruments</i> , 2019 , 90, 073907	1.7	4
342	Experimental investigation of FeCO ₃ (siderite) stability in Earth's lower mantle using XANES spectroscopy. <i>American Mineralogist</i> , 2019 , 104, 1083-1091	2.9	7

341	Synthesis of Arsenopyrite-Type Rhodium Pernitride RhN ₂ from a Single-Source Azide Precursor. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 3667-3671	2.3	12
340	Pressure-Induced Hydrogen-Hydrogen Interaction in Metallic FeH Revealed by NMR. <i>Physical Review X</i> , 2019 , 9,	9.1	11
339	High-pressure synthesis of ultraincompressible hard rhenium nitride pernitride Re(N)(N) stable at ambient conditions. <i>Nature Communications</i> , 2019 , 10, 2994	17.4	40
338	Effect of Fe ³⁺ on Phase Relations in the Lower Mantle: Implications for Redox Melting in Stagnant Slabs. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 12484-12497	3.6	3
337	Improving resolution of solid state NMR in dense molecular hydrogen. <i>Applied Physics Letters</i> , 2019 , 115, 131903	3.4	3
336	Fate of Hydrocarbons in Iron-Bearing Mineral Environments during Subduction. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 651	2.4	2
335	Table-top nuclear magnetic resonance system for high-pressure studies with in situ laser heating. <i>Review of Scientific Instruments</i> , 2019 , 90, 123901	1.7	7
334	A waveguide-based flexible CO ₂ -laser heating system for diamond-anvil cell applications. <i>Comptes Rendus - Geoscience</i> , 2019 , 351, 280-285	1.4	8
333	Stishovite's Relative: A Post-Coesite Form of Phosphorus Oxonitride. <i>Angewandte Chemie</i> , 2018 , 130, 6801-6805	3.6	2
332	Stishovite's Relative: A Post-Coesite Form of Phosphorus Oxonitride. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6691-6695	16.4	5
331	Oxidized iron in garnets from the mantle transition zone. <i>Nature Geoscience</i> , 2018 , 11, 144-147	18.3	32
330	The high-pressure behavior of spherocobaltite (CoCO ₃): a single crystal Raman spectroscopy and XRD study. <i>Physics and Chemistry of Minerals</i> , 2018 , 45, 59-68	1.6	6
329	Spin-induced multiferroicity in the binary perovskite manganite MnO. <i>Nature Communications</i> , 2018 , 9, 2996	17.4	27
328	Magneto-orbital texture in the perovskite modification of Mn ₂ O ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	6
327	Fe-N system at high pressure reveals a compound featuring polymeric nitrogen chains. <i>Nature Communications</i> , 2018 , 9, 2756	17.4	103
326	Observation of nuclear quantum effects and hydrogen bond symmetrisation in high pressure ice. <i>Nature Communications</i> , 2018 , 9, 2766	17.4	29
325	Pentacoordinated silicon in the high-pressure modification of datolite, CaBSiO ₄ (OH). <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1653-1660	6.8	9
324	X-ray Microscopy Opportunities at ID 15B Beamline at the ESRF.. <i>Microscopy and Microanalysis</i> , 2018 , 24, 238-239	0.5	2

323	Pressure dependence of spin canting in ammonium metal formate antiferromagnets. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24465-24476	3.6	4
322	Sound velocities of skiaegite-iron-majorite solid solution to 56 GPa probed by nuclear inelastic scattering. <i>Physics and Chemistry of Minerals</i> , 2018 , 45, 397-404	1.6	6
321	Microporous crystal structure of labuntsovite-Fe and high-pressure behavior up to 23 GPa. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018 , 74, 1-11	1.8	2
320	Metastable silica high pressure polymorphs as structural proxies of deep Earth silicate melts. <i>Nature Communications</i> , 2018 , 9, 4789	17.4	24
319	Raman high-pressure study of butane isomers up to 40 GPa. <i>AIP Advances</i> , 2018 , 8, 115104	1.5	3
318	Pressure tuning of charge ordering in iron oxide. <i>Nature Communications</i> , 2018 , 9, 4142	17.4	14
317	Single-standard method for simultaneous pressure and temperature estimation using Sm ²⁺ :SrB ₄ O ₇ fluorescence. <i>Journal of Applied Physics</i> , 2018 , 124, 165902	2.5	8
316	Pressure-Induced Site-Selective Mott Insulator-Metal Transition in Fe ₂ O ₃ . <i>Physical Review X</i> , 2018 , 8,	9.1	17
315	Synthesis of FeN at 180 GPa and its crystal structure from a submicron-sized grain. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018 , 74, 1392-1395	0.7	21
314	Disorder-order transitions in the perovskite metal-organic frameworks [(CH ₃) ₂ NH ₂][M(HCOO) ₃] at high pressure. <i>CrystEngComm</i> , 2018 , 20, 3512-3521	3.3	35
313	High-Pressure Synthesis of a Nitrogen-Rich Inclusion Compound ReN ₂ xN with Conjugated Polymeric Nitrogen Chains. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9048-9053	16.4	46
312	High-Pressure Synthesis of a Nitrogen-Rich Inclusion Compound ReN ₈ xN ₂ with Conjugated Polymeric Nitrogen Chains. <i>Angewandte Chemie</i> , 2018 , 130, 9186-9191	3.6	11
311	NMR at pressures up to 90 GPa. <i>Journal of Magnetic Resonance</i> , 2018 , 292, 44-47	3	17
310	Crystallography taken to the extreme. <i>Physica Scripta</i> , 2018 , 93, 062501	2.6	4
309	High-pressure high-temperature stability of hcp-Ir Os _{1-x} Ir _x (x = 0.50 and 0.55) alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 700, 198-207	5.7	10
308	Effect of composition on compressibility of skiaegite-Fe-majorite garnet. <i>American Mineralogist</i> , 2017 , 102, 184-191	2.9	4
307	High-pressure single-crystal synchrotron diffraction study of MnGe and related compounds. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 085401	1.8	1
306	High-Pressure NiAs-Type Modification of FeN. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7302-7306	17.0	36

305	Structural and Magnetic Transitions in CaCoVO Perovskite at Extreme Conditions. <i>Inorganic Chemistry</i> , 2017 , 56, 6251-6263	5.1	8
304	Compressional pathways of Cristobalite, structure of cristobalite X-I, and towards the understanding of seifertite formation. <i>Nature Communications</i> , 2017 , 8, 15647	17.4	19
303	The spin state of Fe ³⁺ in lower mantle bridgmanite. <i>American Mineralogist</i> , 2017 , 102, 1263-1269	2.9	17
302	A new high-pressure phase transition in clinoferrosilite: In situ single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2017 , 102, 666-673	2.9	8
301	Structural Stability of Boron Carbide under Pressure Proven by Spectroscopic Studies up to 73 GPa. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1357-1363	1.3	5
300	Diamond anvils with a round table designed for high pressure experiments in DAC. <i>High Pressure Research</i> , 2017 , 37, 475-485	1.6	0
299	Portable double-sided pulsed laser heating system for time-resolved geoscience and materials science applications. <i>Review of Scientific Instruments</i> , 2017 , 88, 084501	1.7	19
298	Structural stability and mechanism of compression of stoichiometric BC up to 68GPa. <i>Scientific Reports</i> , 2017 , 7, 8969	4.9	7
297	Stability of iron-bearing carbonates in the deep Earth's interior. <i>Nature Communications</i> , 2017 , 8, 15960	17.4	59
296	Raman and IR Spectroscopy Studies on Propane at Pressures of Up to 40 GPa. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6004-6011	2.8	7
295	Nonicosahedral boron allotrope synthesized at high pressure and high temperature. <i>Physical Review B</i> , 2017 , 95,	3.3	10
294	IrBe binary alloys under extreme conditions and their electrocatalytic activity in methanol oxidation. <i>Acta Materialia</i> , 2017 , 139, 236-243	8.4	10
293	Magnetic flux tailoring through Lenz lenses for ultrasmall samples: A new pathway to high-pressure nuclear magnetic resonance. <i>Science Advances</i> , 2017 , 3, eaao5242	14.3	24
292	High-pressure magnetic, electronic, and structural properties of MFe ₂ O ₄ (M=Mg,Zn,Fe) ferric spinels. <i>Physical Review B</i> , 2017 , 95,	3.3	13
291	Critical behavior of Mg _{1-x} Fe _x O at the pressure-induced iron spin-state crossover. <i>Physical Review B</i> , 2017 , 95,	3.3	3
290	High-pressure behavior of Boron studied on single crystals by X-ray diffraction, Raman and IR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2017 , 245, 50-60	3.3	7
289	Incommensurate atomic density waves in the high-pressure IVb phase of barium. <i>IUCrJ</i> , 2017 , 4, 152-157	4.7	7
288	A closer look into close packing: pentacoordinated silicon in a high-pressure polymorph of danburite. <i>IUCrJ</i> , 2017 , 4, 671-677	4.7	15

287	Eine NiAs-artige Hochdruckmodifikation von FeN. <i>Angewandte Chemie</i> , 2017 , 129, 7408-7412	3.6	2
286	Experimental observation of phonons as spectators in FeSi electronic gap formation. <i>Physical Review B</i> , 2016 , 93,	3.3	8
285	Magnetic interactions in NiO at ultrahigh pressure. <i>Physical Review B</i> , 2016 , 93,	3.3	9
284	Pressure-induced crossing of the core levels in 5d metals. <i>Physical Review B</i> , 2016 , 93,	3.3	11
283	High-pressure, high-temperature synthesis and properties of the monoclinic phase of Y2O3. <i>Chemical Research in Chinese Universities</i> , 2016 , 32, 545-548	2.2	2
282	Disorder and defects are not intrinsic to boron carbide. <i>Scientific Reports</i> , 2016 , 6, 19330	4.9	32
281	Structural distortions in the high-pressure polar phases of ammonium metal formates. <i>CrystEngComm</i> , 2016 , 18, 8849-8857	3.3	18
280	High-Pressure Phase Transformations in TiPO : A Route to Pentacoordinated Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15053-15057	16.4	16
279	Discovery of Fe7O9: a new iron oxide with a complex monoclinic structure. <i>Scientific Reports</i> , 2016 , 6, 32852	4.9	36
278	Terapascal static pressure generation with ultrahigh yield strength nanodiamond. <i>Science Advances</i> , 2016 , 2, e1600341	14.3	118
277	High-Pressure Phase Transformations in TiPO4: A Route to Pentacoordinated Phosphorus. <i>Angewandte Chemie</i> , 2016 , 128, 15277-15281	3.6	8
276	Sound velocities of bridgmanite from density of states determined by nuclear inelastic scattering and first-principles calculations. <i>Progress in Earth and Planetary Science</i> , 2016 , 3,	3.9	5
275	Structural complexity of simple Fe2O3 at high pressures and temperatures. <i>Nature Communications</i> , 2016 , 7, 10661	17.4	119
274	Seismic parameters of hcp-Fe alloyed with Ni and Si in the Earth's inner core. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 610-623	3.6	11
273	Stability of Fe,Al-bearing bridgmanite in the lower mantle and synthesis of pure Fe-bridgmanite. <i>Science Advances</i> , 2016 , 2, e1600427	14.3	25
272	Charge-ordering transition in iron oxide Fe4O5 involving competing dimer and trimer formation. <i>Nature Chemistry</i> , 2016 , 8, 501-8	17.6	44
271	Possible artifacts in inferring seismic properties from X-ray data. <i>Physics of the Earth and Planetary Interiors</i> , 2016 , 260, 14-19	2.3	5
270	Neon-Bearing Ammonium Metal Formates: Formation and Behaviour under Pressure. <i>ChemPhysChem</i> , 2016 , 17, 3369-3372	3.2	12

- 269 Planetary science. Shock compression of stishovite and melting of silica at planetary interior conditions. *Science*, **2015**, 347, 418-20 33.3 102
- 268 High Poisson's ratio of Earth's inner core explained by carbon alloying. *Nature Geoscience*, **2015**, 8, 220-228.3 90
- 267 First-principles calculations of properties of orthorhombic iron carbide Fe₇C₃ at the Earth's core conditions. *Physical Review B*, **2015**, 91, 3.3 16
- 266 Compressibility and structural stability of spinel-type MnIn₂O₄. *Journal of Solid State Chemistry*, **2015**, 230, 301-308 3.3 12
- 265 Melting relations of multicomponent carbonate MgCO₃-FeCO₃-CaCO₃-Na₂CO₃ system at 1206 GPa: application to deeper mantle diamond formation. *Physics and Chemistry of Minerals*, **2015**, 42, 817-824 1.6 9
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