

Earl O'bannon

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

392
citations

933264

10
h-index

794469

19
g-index

27
all docs

27
docs citations

27
times ranked

497
citing authors

#	ARTICLE	IF	CITATIONS
1	Single crystal toroidal diamond anvils for high pressure experiments beyond 5 megabar. <i>Nature Communications</i> , 2018, 9, 3563.	5.8	65
2	Establishing gold and platinum standards to 1 terapascal using shockless compression. <i>Science</i> , 2021, 372, 1063-1068.	6.0	53
3	Contributed Review: Culet diameter and the achievable pressure of a diamond anvil cell: Implications for the upper pressure limit of a diamond anvil cell. <i>Review of Scientific Instruments</i> , 2018, 89, 111501.	0.6	30
4	New dynamic diamond anvil cells for tera-pascal per second fast compression x-ray diffraction experiments. <i>Review of Scientific Instruments</i> , 2019, 90, 065114.	0.6	30
5	Moissanite (SiC) with metal-silicide and silicon inclusions from tuff of Israel: Raman spectroscopy and electron microscope studies. <i>Lithos</i> , 2018, 310-311, 355-368.	0.6	28
6	Vibrational spectra of four polycyclic aromatic hydrocarbons under high pressure: implications for stabilities of PAHs during accretion. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 181-208.	0.3	16
7	High-pressure study of dravite tourmaline: Insights into the accommodating nature of the tourmaline structure. <i>American Mineralogist</i> , 2018, 103, 1622-1633.	0.9	16
8	Beryl-II, a high-pressure phase of beryl: Raman and luminescence spectroscopy to 16.4 GPa. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 671-687.	0.3	15
9	A Cr ³⁺ luminescence study of spodumene at high pressures: Effects of site geometry, a phase transition, and a level-crossing. <i>American Mineralogist</i> , 2016, 101, 1406-1413.	0.9	15
10	Compression-rate dependence of pressure-induced phase transitions in Bi. <i>Scientific Reports</i> , 2021, 11, 14859.	1.6	15
11	The Effect of Pressure on Halogen Bonding in 4-Iodobenzonitrile. <i>Molecules</i> , 2019, 24, 2018.	1.7	11
12	Not all moissanites are created equal: New constraints on moissanite from metamorphic rocks of Bulgaria. <i>Earth and Planetary Science Letters</i> , 2018, 498, 387-396.	1.8	10
13	A Cr ³⁺ luminescence study of natural topaz Al ₂ SiO ₄ (F,OH) ₂ up to 60 GPa. <i>American Mineralogist</i> , 2019, 104, 1656-1662.	0.9	10
14	Suppression of magnetic ordering in Fe-deficient FeTe_3 from application of pressure. <i>Physical Review B</i> , 2020, 102, .	1.1	9
15	Non-cratonic Diamonds from UHP Metamorphic Terranes, Ophiolites and Volcanic Sources. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 88, 191-255.	2.2	9
16	Trona at extreme conditions: A pollutant-sequestering material at high pressures and low temperatures. <i>American Mineralogist</i> , 2014, 99, 1973-1984.	0.9	8
17	The ammonium ion in a silicate under compression: infrared spectroscopy and powder X-ray diffraction of NH ₄ AlSi ₃ O ₈ buddingtonite to 30 GPa. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 149-161.	0.3	8
18	The transformation of diamond to graphite: Experiments reveal the presence of an intermediate linear carbon phase. <i>Diamond and Related Materials</i> , 2020, 108, 107876.	1.8	8

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19	An infrared and Raman spectroscopic study of PbSO ₄ -anglesite at high pressures. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 623-637.	0.3	7
20	The ultrahigh pressure stability of silver: An experimental and theoretical study. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	7
21	The high-pressure phase of lawsonite: A single crystal study of a key mantle hydrous phase. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6294-6305.	1.4	6
22	Delocalization in Cr ³⁺ luminescence of clinocllore: A pressure-induced transition from single-ion emission to pair emission. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 109, 89-99.	1.9	4
23	High pressure stability of ¹¹² Zr: no evidence for isostructural phase transitions. <i>High Pressure Research</i> , 2021, 41, 247-266.	0.4	4
24	A vibrational spectroscopic study of kernite to 25 GPa: Implications for the high-pressure stability of borate polyhedra. <i>American Mineralogist</i> , 2018, 103, 1306-1318.	0.9	3
25	Simultaneous imaging and diffraction in the dynamic diamond anvil cell. <i>Review of Scientific Instruments</i> , 2022, 93, 053903.	0.6	3
26	Systematic structural study in praseodymium compressed in a neon pressure medium up to 185 GPa. <i>Physical Review B</i> , 2022, 105, .	1.1	2
27	High-pressure structural systematics of dysprosium metal compressed in a neon pressure medium to 182 GPa. <i>Physical Review B</i> , 2022, 105, .	1.1	0