

Anna Pakhomova

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

255
citations

1040056

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1058476

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docs citations

15
times ranked

405
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure synthesis of ultraincompressible hard rhenium nitride pernitride $\text{Re}_2(\text{N}_2)(\text{N})_2$ stable at ambient conditions. <i>Nature Communications</i> , 2019, 10, 2994.	12.8	65
2	Holistic Approach for Studying Planetary Hydrospheres: Gibbs Representation of Ices Thermodynamics, Elasticity, and the Water Phase Diagram to 2,300 MPa. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006176.	3.6	44
3	A closer look into close packing: pentacoordinated silicon in a high-pressure polymorph of danburite. <i>IUCr</i> , 2017, 4, 671-677.	2.2	21
4	Penta- and hexa-coordinated beryllium and phosphorus in high-pressure modifications of $\text{CaBe}_2\text{P}_2\text{O}_8$. <i>Nature Communications</i> , 2019, 10, 2800.	12.8	20
5	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.	2.0	17
6	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, .	2.5	17
7	Polymorphism of feldspars above 10 GPa. <i>Nature Communications</i> , 2020, 11, 2721.	12.8	16
8	Laser heating system at the Extreme Conditions Beamline, P02.2, PETRA III. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1747-1757.	2.4	14
9	The Fe-FeSi phase diagram at Mercury's core conditions. <i>Nature Communications</i> , 2022, 13, 387.	12.8	13
10	A new high-pressure phase transition in clinoferrosilite: In situ single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2017, 102, 666-673.	1.9	9
11	Polymorphs of the Gadolinite-type Borates ZrB_2O_5 and HfB_2O_5 Under Extreme Pressure. <i>Chemistry - A European Journal</i> , 2021, 27, 6007-6014.	3.3	6
12	Edge-sharing BO_4 tetrahedra and penta-coordinated silicon in the high-pressure modification of NaBSi_3O_8 . <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1735-1742.	6.0	6
13	The Fe-Si-C system at extreme P-T conditions: A possible core crystallization pathway for reduced planets. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 322, 129-142.	3.9	5
14	The Effect of Pulsed Laser Heating on the Stability of Ferropiclasite at High Pressures. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 542.	2.0	2
15	Host-Guest Hydrogen Bonding in High-Pressure Acetone Clathrate Hydrates: <i>In Situ</i> Single-Crystal X-ray Diffraction Study. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1833-1838.	4.6	0