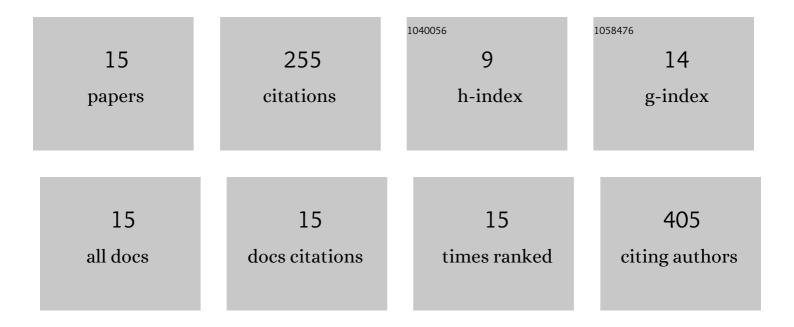
Anna Pakhomova

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High-pressure synthesis of ultraincompressible hard rhenium nitride pernitride Re2(N2)(N)2 stable at ambient conditions. Nature Communications, 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. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006176. | 3.6 | 44 |
| 3 | A closer look into close packing: pentacoordinated silicon in a high-pressure polymorph of danburite. IUCrJ, 2017, 4, 671-677. | 2.2 | 21 |
| 4 | Penta- and hexa-coordinated beryllium and phosphorus in high-pressure modifications of CaBe2P2O8. Nature Communications, 2019, 10, 2800. | 12.8 | 20 |
| 5 | Synthesis of Arsenopyriteâ€Type Rhodium Pernitride RhN ₂ from a Single‣ource Azide Precursor. European Journal of Inorganic Chemistry, 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. Journal of Applied Physics, 2019, 125, . | 2.5 | 17 |
| 7 | Polymorphism of feldspars above 10 GPa. Nature Communications, 2020, 11, 2721. | 12.8 | 16 |
| 8 | Laser heating system at the Extreme Conditions Beamline, P02.2, PETRA III. Journal of Synchrotron Radiation, 2021, 28, 1747-1757. | 2.4 | 14 |
| 9 | The Fe-FeSi phase diagram at Mercury's core conditions. Nature Communications, 2022, 13, 387. | 12.8 | 13 |
| 10 | A new high-pressure phase transition in clinoferrosilite: In situ single-crystal X-ray diffraction study. American Mineralogist, 2017, 102, 666-673. | 1.9 | 9 |
| 11 | Polymorphs of the Gadoliniteâ€Type Borates ZrB ₂ O ₅ and HfB ₂ O ₅ Under Extreme Pressure. Chemistry - A European Journal, 2021, 27, 6007-6014. | 3.3 | 6 |
| 12 | Edge-sharing BO ₄ tetrahedra and penta-coordinated silicon in the high-pressure modification of NaBSi ₃ O ₈ . Inorganic Chemistry Frontiers, 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. Geochimica Et Cosmochimica Acta, 2022, 322, 129-142. | 3.9 | 5 |
| 14 | The Effect of Pulsed Laser Heating on the Stability of Ferropericlase at High Pressures. Minerals (Basel, Switzerland), 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. Journal of Physical Chemistry Letters, 2022, 13, 1833-1838. | 4.6 | 0 |