

Dinara N Sagatova

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Calcium orthocarbonate, Ca ₂ CO ₄ -Pnma: A potential host for subducting carbon in the transition zone and lower mantle. <i>Lithos</i> , 2020, 370-371, 105637. | 1.4 | 23 |
| 2 | Formation of Mg-Orthocarbonate through the Reaction MgCO ₃ + MgO = Mg ₂ CO ₄ at Earth's Lower Mantle Conditions. <i>Crystal Growth and Design</i> , 2021, 21, 2986-2992. | 3.0 | 19 |
| 3 | Orthocarbonates of Ca, Sr, and Ba—The Appearance of sp ³ -Hybridized Carbon at a Low Pressure of 5 GPa and Dynamic Stability at Ambient Pressure. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1948-1957. | 2.7 | 18 |
| 4 | Metastable structures of CaCO ₃ and their role in transformation of calcite to aragonite and postaragonite. <i>Crystal Growth and Design</i> , 2021, 21, 65-74. | 3.0 | 16 |
| 5 | Stability of Ca ₂ CO ₄ -Pnma against the Main Mantle Minerals from Ab Initio Computations. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1709-1715. | 2.7 | 14 |
| 6 | Novel Calcium sp ³ Carbonate CaC ₂ O ₅ May Be a Carbon Host in Earth's Lower Mantle. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 73-80. | 2.7 | 13 |
| 7 | High-Pressure Phase Diagrams of Na ₂ CO ₃ and K ₂ CO ₃ . <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 599. | 2.0 | 11 |
| 8 | Phase Diagrams of Iron Hydrides at Pressures of 100–400 GPa and Temperatures of 0–5000 K. <i>JETP Letters</i> , 2020, 111, 145-150. | 1.4 | 10 |
| 9 | Alkali Metal (Li, Na, and K) Orthocarbonates: Stabilization of sp ³ -Bonded Carbon at Pressures above 20 GPa. <i>Crystal Growth and Design</i> , 2021, 21, 6744-6751. | 3.0 | 7 |
| 10 | ̂ ³ -BaB ₂ O ₄ : High-Pressure High-Temperature Polymorph of Barium Borate with Edge-Sharing BO ₄ Tetrahedra. <i>Inorganic Chemistry</i> , 2022, 61, 2340-2350. | 4.0 | 7 |
| 11 | Phase Stability in Nickel Phosphides at High Pressures. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1978-1984. | 2.7 | 4 |
| 12 | High-Pressure Synthesis and Ambient-Pressure Tem Investigation of Mg-Orthocarbonate. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 3 |
| 13 | Phase Relations in CaSiO ₃ System up to 100 GPa and 2500 K. <i>Geochemistry International</i> , 2021, 59, 791-800. | 0.7 | 2 |
| 14 | Fe–N System at High Pressures and Its Relevance to the Earth's Core Composition. <i>Crystal Growth and Design</i> , 0, , . | 3.0 | 2 |
| 15 | The search for the new superconductors in the Ni-N system. <i>Journal of Physics: Conference Series</i> , 2020, 1590, 012010. | 0.4 | 1 |
| 16 | Phase relations, and mechanical and electronic properties of nickel borides, carbides, and nitrides from <i>ab initio</i> calculations. <i>RSC Advances</i> , 2021, 11, 33781-33787. | 3.6 | 0 |