

Nursultan E Sagatov

List of Publications by Year in descending order

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papers

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times ranked

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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	Disordered Aragonite: The New High-Pressure, High-Temperature Phase of CaCO ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 26467-26473.	3.1	16
5	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
6	New high-pressure phases of Fe ₇ N ₃ and Fe ₇ C ₃ stable at Earth's core conditions: evidences for carbon–nitrogen isomorphism in Fe-compounds. <i>RSC Advances</i> , 2019, 9, 3577-3581.	3.6	15
7	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
8	Novel Calcium sp ³ Carbonate Ca ₂ O ₅ -I ₄ ...2d May Be a Carbon Host in Earth's Lower Mantle. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 73-80.	2.7	13
9	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
10	(Fe,Ni) ₂ P allabogdanite can be an ambient pressure phase in iron meteorites. <i>Scientific Reports</i> , 2020, 10, 8956.	3.3	10
11	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
12	Phase relations in the Fe-P system at high pressures and temperatures from ab initio computations. <i>High Pressure Research</i> , 2020, 40, 235-244.	1.2	9
13	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
14	̂ 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
15	Phase Relations of Iron Carbides Fe ₂ C, Fe ₃ C, and Fe ₇ C ₃ at the Earth's Core Pressures and Temperatures. <i>Russian Geology and Geophysics</i> , 2020, 61, 1345-1353.	0.7	6
16	Synthesis and Growth of Rare Earth Borates NaSrR(BO ₃) ₂ (R = Ho–Lu, Y, Sc). <i>Inorganic Chemistry</i> , 2022, 61, 7497-7505.	4.0	6
17	Structure and Properties of New High-Pressure Phases of Fe ₇ N ₃ . <i>JETP Letters</i> , 2018, 107, 379-383.	1.4	5
18	Towards the investigation of ternary compound in the Ti-Al-Zr-O system: Effect of oxygen fugacity on phase formation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3663-3672.	5.7	5

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19	First-Principles investigation of Pressure-Induced structural transformations of barium borates in the BaO-B ₂ O ₃ -BaF ₂ system in the range of 0–10 GPa. Computational Materials Science, 2021, 199, 110735.	3.0	5
20	Temperature induced twinning in aragonite: transmission electron microscopy experiments and <i>ab initio</i> calculations. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 79-84.	0.8	4
21	Phase Stability in Nickel Phosphides at High Pressures. ACS Earth and Space Chemistry, 2020, 4, 1978-1984.	2.7	4
22	High-Pressure Synthesis and Ambient-Pressure Tem Investigation of Mg-Orthocarbonate. SSRN Electronic Journal, 0, , .	0.4	3
23	Phase Relations in the Ni–S System at High Pressures from <i>ab Initio</i> Computations. ACS Earth and Space Chemistry, 2021, 5, 596-603.	2.7	2
24	Phase Relations in CaSiO ₃ System up to 100 GPa and 2500 K. Geochemistry International, 2021, 59, 791-800.	0.7	2
25	Fe–N System at High Pressures and Its Relevance to the Earth’s Core Composition. Crystal Growth and Design, 0, , .	3.0	2
26	High-Pressure Synthesis, Electronic Properties, and Raman Spectroscopy of Barium Tetraborate BaB ₄ O ₇ Polymorphs. Crystal Growth and Design, 2022, 22, 3405-3412.	3.0	2
27	The search for the new superconductors in the Ni-N system. Journal of Physics: Conference Series, 2020, 1590, 012010.	0.4	1
28	Experimental and <i>Ab Initio</i> Investigation of the Formation of Phosphoran Olivine. ACS Earth and Space Chemistry, 2021, 5, 1373-1383.	2.7	0
29	Phase relations, and mechanical and electronic properties of nickel borides, carbides, and nitrides from <i>ab initio</i> calculations. RSC Advances, 2021, 11, 33781-33787.	3.6	0
30	Ba ₃ (BO ₃) ₂ : the first example of the dynamic disordering in borate crystal. Physical Chemistry Chemical Physics, 0, , .	2.8	0