Nursultan E Sagatov

List of Publications by Year
in descending order

30	235	933447 10	1125743 13
papers	citations	h-index	g-index

30	30	30	140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Î³-BaB₂O₄: High-Pressure High-Temperature Polymorph of Barium Borate with Edge-Sharing BO₄ Tetrahedra. Inorganic Chemistry, 2022, 61, 2340-2350.	4.0	7
2	Novel Calcium sp³ Carbonate CaC₂O₅-I4Ì…2d May Be a Carbon Host in Earthâ€™s Lower Mantle. ACS Earth and Space Chemistry, 2022, 6, 73-80.	2.7	13
3	High-Pressure Synthesis, Electronic Properties, and Raman Spectroscopy of Barium Tetraborate BaB₄O₇ Polymorphs. Crystal Growth and Design, 2022, 22, 3405-3412.	3.0	2
4	Synthesis and Growth of Rare Earth Borates NaSrR(BO₃)₂ (R = Hoâ€“Lu, Y, Sc). Inorganic Chemistry, 2022, 61, 7497-7505.	4.0	6
5	Metastable structures of CaCO₃ and their role in transformation of calcite to aragonite and postaragonite. Crystal Growth and Design, 2021, 21, 65-74.	3.0	16
6	Phase Relations in the Niâ€“S System at High Pressures from ab Initio Computations. ACS Earth and Space Chemistry, 2021, 5, 596-603.	2.7	2
7	Formation of Mg-Orthocarbonate through the Reaction MgCO₃ + MgO = Mg₂CO₄ at Earthâ€™s Lower Mantle Pâ€“T Conditions. Crystal Growth and Design, 2021, 21, 2986-2992.	3.0	19
8	Experimental and Ab Initio Investigation of the Formation of Phosphoran Olivine. ACS Earth and Space Chemistry, 2021, 5, 1373-1383.	2.7	0
9	Stability of Ca₂CO₄-Pnma against the Main Mantle Minerals from Ab Initio Computations. ACS Earth and Space Chemistry, 2021, 5, 1709-1715.	2.7	14
10	Orthocarbonates of Ca, Sr, and Baâ€”The Appearance of sp³-Hybridized Carbon at a Low Pressure of 5 GPa and Dynamic Stability at Ambient Pressure. ACS Earth and Space Chemistry, 2021, 5, 1948-1957.	2.7	18
11	Phase Relations in CaSiO3 System up to 100 GPa and 2500 K. Geochemistry International, 2021, 59, 791-800.	0.7	2
12	First-Principles investigation of Pressure-Induced structural transformations of barium borates in the BaO-B2O3-BaF2 system in the range of 0â€“10 GPa. Computational Materials Science, 2021, 199, 110735.	3.0	5
13	Phase relations, and mechanical and electronic properties of nickel borides, carbides, and nitrides from ab initio calculations. RSC Advances, 2021, 11, 33781-33787.	3.6	0
14	Alkali Metal (Li, Na, and K) Orthocarbonates: Stabilization of sp³-Bonded Carbon at Pressures above 20 GPa. Crystal Growth and Design, 2021, 21, 6744-6751.	3.0	7
15	Disordered Aragonite: The New High-Pressure, High-Temperature Phase of CaCO3. Journal of Physical Chemistry C, 2020, 124, 26467-26473.	3.1	16
16	The search for the new superconductors in the Ni-N system. Journal of Physics: Conference Series, 2020, 1590, 012010.	0.4	1
17	Phase Stability in Nickel Phosphides at High Pressures. ACS Earth and Space Chemistry, 2020, 4, 1978-1984.	2.7	4
18	Towards the investigation of ternary compound in the Ti-Al-Zr-O system: Effect of oxygen fugacity on phase formation. Journal of the European Ceramic Society, 2020, 40, 3663-3672.	5.7	5

#	Article	IF	Citations
19	Calcium orthocarbonate, Ca2CO4-Pnma: A potential host for subducting carbon in the transition zone and lower mantle. Lithos, 2020, 370-371, 105637.	1.4	23
20	Phase relations in the Fe-P system at high pressures and temperatures from ab initio computations. High Pressure Research, 2020, 40, 235-244.	1.2	9
21	(Fe,Ni)2P allabogdanite can be an ambient pressure phase in iron meteorites. Scientific Reports, 2020, 10, 8956.	3.3	10
22	Phase Diagrams of Iron Hydrides at Pressures of 100â€“400 GPa and Temperatures of 0â€“5000 K. JETP Letters, 2020, 111, 145-150.	1.4	10
23	Phase Relations of Iron Carbides Fe2C, Fe3C, and Fe7C3 at the Earthâ€™s Core Pressures and Temperatures. Russian Geology and Geophysics, 2020, 61, 1345-1353.	0.7	6
24	High-Pressure Phase Diagrams of Na2CO3 and K2CO3. Minerals (Basel, Switzerland), 2019, 9, 599.	2.0	11
25	New high-pressure phases of Fe7N3 and Fe7C3 stable at Earth's core conditions: evidences for carbonâ€“nitrogen isomorphism in Fe-compounds. RSC Advances, 2019, 9, 3577-3581.	3.6	15
26	Temperature induced twinning in aragonite: transmission electron microscopy experiments and ab initio calculations. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 79-84.	0.8	4
27	Structure and Properties of New High-Pressure Phases of Fe7N3. JETP Letters, 2018, 107, 379-383.	1.4	5
28	Feâ€“N System at High Pressures and Its Relevance to the Earthâ€™s Core Composition. Crystal Growth and Design, 0, , .	3.0	2
29	High-Pressure Synthesis and Ambient-Pressure Tem Investigation of Mg-Orthocarbonate. SSRN Electronic Journal, 0, , .	0.4	3
30	Ba₃(BO₃)₂: the first example of the dynamic disordering in borate crystal. Physical Chemistry Chemical Physics, 0, , .	2.8	0