

Sergey N Volkov

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Topological Features of A+B ₂ + [B ₅ O ₉] Layered Pentaborates: Structural Changes in NaSr[B ₅ O ₉] at High Temperatures or Why KCa[B ₅ O ₉] Is Unstable?. <i>Crystal Growth and Design</i> , 2022, 22, 976-981.	3.0	0
2	A new salt-inclusion compound, Ag ₄ Br @[B ₇ O ₁₂], with a novel type of the porous double-layered borate anion and strong anharmonicity of the guest sublattice. <i>Solid State Sciences</i> , 2022, 125, 106831.	3.2	4
3	Where the extraordinaries meet: a cascade of isosymmetrical superionic phase transitions and negative thermal expansion in a novel silver salt-inclusion borate halide. <i>CrystEngComm</i> , 2022, 24, 4174-4179.	2.6	6
4	Crystal structure, thermal expansion and fluorescence of Sr ₃ Eu ₂ Si ₈ O ₂₆ /2 phosphors. <i>Materials Chemistry and Physics</i> , 2021, 260, 124151.	4.0	3
5	High-temperature $\Gamma_3^- \rightarrow \Gamma_2^-$ phase transitions in Ca ₂ B ₂ O ₅ : Thermal expansion and crystal structure of Γ_2^- phase. <i>Solid State Sciences</i> , 2021, 121, 106726.	3.2	4
6	Two novel centrosymmetric barium strontium borates with a deep-UV cut-off edge: Ba ₂ Sr ₃ B ₄ O ₁₁ and Ba ₃ Sr ₃ B ₄ O ₁₂ . <i>Journal of Solid State Chemistry</i> , 2020, 281, 121023.	2.9	9
7	Crystal structure and strong uniaxial negative thermal expansion of CaBi ₂ B ₂ O ₇ borate. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108262.	3.9	4
8	Bridging the Salt-Inclusion and Open-Framework Structures: The Case of Acentric Ag ₄ B ₄ O ₇ X ₂ (X = Br, I) Borate Halides. <i>Inorganic Chemistry</i> , 2020, 59, 2655-2658.	4.0	10
9	The first bismuth borate oxyiodide, Bi ₄ BO ₇ I: commensurate or incommensurate?. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 992-1000.	1.1	1
10	The first silver bismuth borate, AgBi ₂ B ₅ O ₁₁ . <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 910-918.	0.5	3
11	Crystal structure and thermal properties of the LiNaKZnP ₂ O ₇ solid solutions and its relation to the MM ² ZnP ₂ O ₇ diphosphate family. <i>Journal of Solid State Chemistry</i> , 2019, 269, 486-493.	2.9	6
12	$\langle i \rangle \Gamma_2^- \langle /i \rangle$ -Ca ₁₁ B ₂ Si ₄ O ₂₂ : six-fold twinning, crystal structure and thermal expansion. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018, 233, 379-390.	0.8	7
13	Novel solid solutions of Ca ₃ Yb _{0.5} B ₂ Si ₈ O ₂₆ : Synthesis, crystal structure, luminescence and thermal properties. <i>Solid State Sciences</i> , 2018, 83, 82-89.	3.2	5
14	Borates' Crystal Structures of Prospective Nonlinear Optical Materials: High Anisotropy of the Thermal Expansion Caused by Anharmonic Atomic Vibrations. <i>Crystals</i> , 2017, 7, 93.	2.2	40
15	Au-Cu Phase Diagram. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 772-775.	1.3	44
16	Incommensurate modulation and thermal expansion of Sr ₃ B ₂ Si ₈ O ₂₆ /2 solid solutions. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 489-497.	1.1	6
17	Synthesis, crystal structure and thermal expansion of a novel borate, Ba ₃ Bi ₂ (BO ₃) ₄ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, 228, .	0.8	4