

Boris P Sobolev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Growth of congruently melting $\text{Ca}_{0.59}\text{Sr}_{0.41}\text{F}_2$ crystals and study of their properties. Crystallography Reports, 2010, 55, 518-524.	0.6	30
2	Nanostructured crystals of fluorite phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R are rare-earth elements) and their ordering. I. Crystal growth of $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R = Y, La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb, and) Tj ETQq0 0.6 rgBT / Overlock 10 T	0.6	25
3	Growth and magneto-optical properties of $\text{Na}_{0.37}\text{Tb}_{0.63}\text{F}_2$.26 cubic single crystal. Crystallography Reports, 2014, 59, 718-723.	0.6	25
4	Nanostructured crystals of fluorite phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R = Y, La-Lu) and their ordering: Part III. A study of the refractive indices. Crystallography Reports, 2009, 54, 603-608.	0.6	24
5	Thermophysical characteristics of $\text{Ca}_{1-x}\text{Sr}_x\text{F}_2$ solid-solution Crystals (0 ≤ x ≤ 1). Crystallography Reports, 2015, 60, 116-122.	0.6	21
6	Nanostructured crystals of fluorite phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R are rare earth elements) and their ordering: 5. A study of the ionic conductivity of as-grown $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ crystals. Crystallography Reports, 2010, 55, 662-667.	0.6	19
7	The magnetocaloric effect in high-spin paramagnetic rare-earth fluorites. Materials Chemistry and Physics, 2007, 105, 62-66.	4.0	15
8	Investigation of multicomponent fluoride optical materials in the UV spectral region: I. Single crystals of $\text{Ca}_{1-x}\text{R}_x\text{F}_{2+x}$ (R = Sc, Y, La, Yb, Lu) solid solutions. Crystallography Reports, 2006, 51, 1009-1015.	0.6	12
9	Nanostructured crystals of fluorite phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R are rare-earth elements) and their ordering: IV. Study of the optical transmission spectra in the 2.4-17.4 μm wavelength range. Crystallography Reports, 2010, 55, 122-126.	0.6	12
10	Single crystals of the fluorite nonstoichiometric phase $\text{Eu}_{0.916-2x}\text{Eu}_{0.084+3x}\text{F}_{2.084}$ (conductivity,) Tj ETQq0 0.6 rgBT / Overlock 10 T	0.6	12
11	Calculation of the Refractive Indices of $\text{M}_{1-x}\text{R}_x\text{F}_{2+x}$ Crystals (M = Ca, Sr, Ba, Cd, Pb; R are Rare Earth) Tj ETQq1 0.784314 rgBT / Overlock 11 T	0.6	11
12	Electrical and thermal conductivities of congruently melting single crystals of isovalent $\text{M}_{1-x}\text{R}_x\text{F}_2$ solid solutions (M, R = Ca, Sr, Cd, Pb) in relation to their defect fluorite structure. Crystallography Reports, 2015, 60, 532-536.	0.6	9
13	Nanostructured crystals of fluorite phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ and their ordering: 9. The defect crystal and real structure of quenched fluorite phases $\text{Sr}_{1-x}\text{Ce}_x\text{F}_{2+x}$ (x = 0.11-0.5). Crystallography Reports, 2014, 59, 14-21.	0.6	8
14	Crystal Growth and Thermal Conductivity of the Congruently Melting Solid Solution $\text{Cd}_{0.77}\text{Sr}_{0.23}\text{F}_2$. Inorganic Materials, 2019, 55, 495-499.	0.8	8
15	Nanostructured Crystals of Fluorite Phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R Are Rare-Earth Elements) and Their Ordering. 13: Crystal Structure of SrF_2 and Concentration Dependence of the Defect Structure of Nonstoichiometric Phase $\text{Sr}_{1-x}\text{La}_x\text{F}_{2+x}$ As Grown (x = 0.11, 0.20, 0.32, 0.37, 0.47). Crystallography Reports, 2019, 64, 41-50.	0.6	8
16	Thermophysical characteristics of $\text{Pb}_{0.679}\text{Cd}_{0.321}\text{F}_2$ solid-solution crystals. Crystallography Reports, 2015, 60, 111-115.	0.6	7
17	Nanostructured crystals of fluorite phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R Are Rare Earth Elements) and their ordering: 10. Ordering under spontaneous crystallization and annealing of $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ Alloys (R) Tj ETQq1 0.784314 rgBT / Overlock 11 T	0.6	7
18	Thermophysical characteristics of EuF_2 .136 crystal. Crystallography Reports, 2015, 60, 740-743.	0.6	7

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19	The universal defect cluster architecture of fluorite-type nanostructured crystals. CrystEngComm, 2022, 24, 3762-3769.	2.6	7
20	Full quasi-system from LaF ₃ to LuF ₃ as a combination of 14 binary systems of lanthanide trifluorides with maximal chemical proximity. Journal of Solid State Chemistry, 2022, 312, 123163.	2.9	7
21	Nanostructured crystals of fluorite phases Sr _{1-x} R _x F _{2+x} and their ordering: VIII. Imperfect crystal structure of Sr _{0.71} Ce _{0.29} F _{2.29} . Crystallography Reports, 2013, 58, 678-681.	0.6	6
22	Growth of MgF ₂ optical crystals and their ionic conductivity in the as-grown state and after partial pyrohydrolysis. Crystallography Reports, 2014, 59, 928-932.	0.6	6
23	Ionic conductivity of ScF ₃ single crystals (ReO ₃ type). Crystallography Reports, 2016, 61, 270-274.	0.6	6
24	Anisotropy of Ionic Conductivity of TbF ₃ Crystals. Crystallography Reports, 2019, 64, 621-625.	0.6	6
25	Displacements in the Cationic Motif of Nonstoichiometric Fluorite Phases Ba _{1-x} R _x F _{2+x} as a Result of the Formation of {Ba ₈ [R ₆ F ₆₈]} Clusters: III. Defect Cluster Structure of the Nonstoichiometric Phase Ba _{0.69} La _{0.31} F _{2.31} and Its Dependence on Heat Treatment. Crystals, 2021, 11, 447.	2.2	6
26	UV and VUV spectroscopic study of Na _{0.4} Y _{0.6} F _{2.2} crystals doped with rare-earth ions. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2006, 101, 571-581.	0.6	5
27	Effect of heat treatment in HF atmosphere on the optical and electrical properties of BaF ₂ ceramics. Inorganic Materials, 2009, 45, 1188-1192.	0.8	5
28	Ternary crystals Sr _{1-y} Eu _y ²⁺ Eu _x ³⁺ F _{2+x} of fluorite phases with a variable europium valence and their thermal conductivity (50–300 K). Crystallography Reports, 2017, 62, 411-415.	0.6	5
29	Nanostructured Crystals of Fluorite Phases Sr _{1-x} R _x F _{2+x} and Their Ordering: 12. Influence of Structural Ordering on the Fluorine-Ion Conductivity of Sr _{0.667} R _{0.333} F _{2.333} Alloys (R = Tb or Tm) at Their Annealing. Crystallography Reports, 2018, 63, 121-126.	0.6	5
30	Anisotropy of the Mechanical Properties of TbF ₃ Crystals. Crystallography Reports, 2018, 63, 96-103.	0.6	5
31	Nanostructured Crystals of Fluorite Phases Sr _{1-x} R _x F _{2+x} (R Are Rare-Earth Elements) and Their Ordering. 16: Defect Structure of the Nonstoichiometric Phases Sr _{1-x} R _x F _{2+x} (R = Pr, Tb–Yb) As Grown. Crystallography Reports, 2020, 65, 560-565.	0.6	5
32	Defect structure and ionic conductivity of Ca _{1-x} Sc _x F _{2+x} (0.02 ≤ x ≤ 0.15) single crystals. Crystallography Reports, 2009, 54, 572-583.	0.6	4
33	Coloring elimination in Sr _{1-x} Ce _x F _{2+x} crystals in the visible spectral range during growth from melt. Crystallography Reports, 2013, 58, 755-759.	0.6	4
34	Anion conductivity of a Ce _{0.95} Gd _{0.05} O _{0.075} F _{2.85} solid electrolyte. Inorganic Materials, 2014, 50, 513-518.	0.8	4
35	Increase in the Fluorine-Ion Conductivity of Single Crystals of Tysonite-type CeF ₃ Superionic Conductor by Substituting Polarized Cd ²⁺ Ions for Ce ³⁺ Ions. Crystallography Reports, 2018, 63, 769-773.	0.6	4
36	Thermal Expansion of EuF _{2+x} Single Crystals and Their Thermal Stability. Crystallography Reports, 2018, 63, 614-620.	0.6	3

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37	Effect of Heat Treatment in a F_4 Atmosphere on the Ion-Conductive Properties of Hot-Pressed 95 mol % CeF_3 – 5 mol % SrF_2 Ceramics. Crystallography Reports, 2019, 64, 105-109.	0.6	3
38	Fluorine-Ionic Conductivity of Superionic Conductor Crystals $\text{Na}_{0.37}\text{Tb}_{0.63}\text{F}_{2.26}$. Crystallography Reports, 2019, 64, 626-630.	0.6	3
39	Growth of $\text{Eu}_{1-y}\text{F}_{3+y}$ Single Crystals with Tysonite-Type (LaF_3) Structure and Investigation of the Concentration Dependence of Some Their Properties. Crystallography Reports, 2019, 64, 354-359.	0.6	3
40	High-temperature chemistry of Y, La and lanthanide trifluorides in RF_3 – $\text{R}^{\text{TM}}\text{F}_3$ systems. Part 1. Chemical classification of systems. Journal of Solid State Chemistry, 2021, 298, 122079.	2.9	3
41	Growth and some properties of Ce^{3+} -doped LiYbF_4 single crystals. Crystallography Reports, 2010, 55, 324-327.	0.6	2
42	Growth of Fluorite Solid Solution Crystals in the Ternary SrF_2 – BaF_2 – LaF_3 System and Investigation of Their Properties. Crystallography Reports, 2018, 63, 1015-1021.	0.6	2
43	Synthesis of Nonstoichiometric Samarium Fluoride $\text{SmF}_2 + x$. Crystallography Reports, 2018, 63, 774-779.	0.6	2
44	Growth of $\text{Sm}_{1-y}\text{Sr}_y\text{F}_{3+y}$ ($0 < y \leq 0.31$) Crystals and Investigation of Their Properties. Crystallography Reports, 2019, 64, 488-495.	0.6	2
45	Nanostructured Crystals of Fluorite Phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R Are Rare-Earth Elements) and Their Ordering. 14: Concentration Dependence of the Defect Structure of Nonstoichiometric Phases $\text{Sr}_{1-x}\text{Nd}_x\text{F}_{2+x}$ As Grown ($x = 0.10, 0.25, 0.40, 0.50$). Crystallography Reports, 2019, 64, 216-221.	0.6	2
46	Nanostructured Crystals of Fluorite Phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R Are Rare-Earth Elements) and Their Ordering. 15: Concentration Dependence of the Defect Structure of As Grown Nonstoichiometric Phases $\text{Sr}_{1-x}\text{R}_x\text{F}_{2+x}$ (R = Sm, Gd). Crystallography Reports, 2019, 64, 873-878.	0.6	2
47	$75\text{LiF} + 25\text{SmF}_3$ Eutectic Composite and Ionic Conductivity of SmF_3 near the Polymorphic $\text{I} \leftrightarrow \text{I}^2$ Transition. Crystallography Reports, 2020, 65, 468-472.	0.6	2
48	High-temperature chemistry of Y, La and lanthanide trifluorides in RF_3 – $\text{R}^{\text{TM}}\text{F}_3$ systems. Part 3. Phase composition of the studied systems. Journal of Solid State Chemistry, 2021, 298, 122080.	2.9	2
49	High-temperature chemistry of Y, La and lanthanide trifluorides in RF_3 – $\text{R}^{\text{TM}}\text{F}_3$ systems. Part 2. Phase diagrams of the studied systems. Journal of Solid State Chemistry, 2021, 298, 122078.	2.9	2
50	Refinement of the Congruently Melting Composition of Nonstoichiometric Fluorite Crystals $\text{Ca}_{1-x}\text{Y}_x\text{F}_{2+x}$ ($x = 0.01$ – 0.14). Crystals, 2021, 11, 696.	2.2	1