

Boris P Sobolev

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	The universal defect cluster architecture of fluorite-type nanostructured crystals. CrystEngComm, 2022, 24, 3762-3769.	2.6	7
2	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
3	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
4	High-temperature chemistry of Y, La and lanthanide trifluorides in RF ₃ –R TM F ₃ systems. Part 1. Chemical classification of systems. Journal of Solid State Chemistry, 2021, 298, 122079.	2.9	3
5	High-temperature chemistry of Y, La and lanthanide trifluorides in RF ₃ –R TM F ₃ systems. Part 3. Phase composition of the studied systems. Journal of Solid State Chemistry, 2021, 298, 122080.	2.9	2
6	High-temperature chemistry of Y, La and lanthanide trifluorides in RF ₃ –R TM F ₃ systems. Part 2. Phase diagrams of the studied systems. Journal of Solid State Chemistry, 2021, 298, 122078.	2.9	2
7	Refinement of the Congruently Melting Composition of Nonstoichiometric Fluorite Crystals Ca _{1-x} Y _x F _{2+x} (x = 0.01–0.14). Crystals, 2021, 11, 696.	2.2	1
8	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
9	75LiF + 25SmF ₃ Eutectic Composite and Ionic Conductivity of SmF ₃ near the Polymorphic $\hat{1}\pm\hat{1}^2$ Transition. Crystallography Reports, 2020, 65, 468-472.	0.6	2
10	Effect of Heat Treatment in a \hat{D}_iF_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
11	Fluorine-Ionic Conductivity of Superionic Conductor Crystals Na _{0.37} Tb _{0.63} F _{2.26} . Crystallography Reports, 2019, 64, 626-630.	0.6	3
12	Growth of Sm _{1-y} Sr _y F _{3-y} (0 < y ≤ 0.31) Crystals and Investigation of Their Properties. Crystallography Reports, 2019, 64, 488-495.	0.6	2
13	Nanostructured Crystals of Fluorite Phases Sr _{1-x} R _x F _{2+x} (R Are Rare-Earth Elements) and Their Ordering. 14: Concentration Dependence of the Defect Structure of Nonstoichiometric Phases Sr _{1-x} N _x F _{2+x} As Grown (x = 0.10, 0.25, 0.40, 0.50). Crystallography Reports, 2019, 64, 216-221.	0.6	2
14	Anisotropy of Ionic Conductivity of TbF ₃ Crystals. Crystallography Reports, 2019, 64, 621-625.	0.6	6
15	Crystal Growth and Thermal Conductivity of the Congruently Melting Solid Solution Cd _{0.77} Sr _{0.23} F ₂ . Inorganic Materials, 2019, 55, 495-499.	0.8	8
16	Nanostructured Crystals of Fluorite Phases Sr _{1-x} R _x 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 Sr _{1-x} La _x 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
17	Growth of $\text{N}_{1-d}\text{F}_d\text{F}_{1-d}$ 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
18	Nanostructured Crystals of Fluorite Phases Sr _{1-x} R _x F _{2+x} (R Are Rare-Earth Elements) and Their Ordering. 15: Concentration Dependence of the Defect Structure of As Grown Nonstoichiometric Phases Sr _{1-x} R _x F _{2+x} (R = Sm, Gd). Crystallography Reports, 2019, 64, 873-878.	0.6	2

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19	Nanostructured Crystals of Fluorite Phases $Sr_{1-x}R_xF_{2+x}$ 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
20	Anisotropy of the Mechanical Properties of TbF_3 Crystals. Crystallography Reports, 2018, 63, 96-103.	0.6	5
21	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
22	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
23	Synthesis of Nonstoichiometric Samarium Fluoride SmF_{2+x} . Crystallography Reports, 2018, 63, 774-779.	0.6	2
24	Thermal Expansion of EuF_{2+x} Single Crystals and Their Thermal Stability. Crystallography Reports, 2018, 63, 614-620.	0.6	3
25	Ternary crystals $Sr_{1-y}Eu_yF_{2+x}$ of fluorite phases with a variable europium valence and their thermal conductivity (50-300 K). Crystallography Reports, 2017, 62, 411-415.	0.6	5
26	Ionic conductivity of ScF_3 single crystals (ReO ₃ type). Crystallography Reports, 2016, 61, 270-274.	0.6	6
27	Thermophysical characteristics of $Pb_{0.679}Cd_{0.321}F_2$ solid-solution crystals. Crystallography Reports, 2015, 60, 111-115.	0.6	7
28	Nanostructured crystals of fluorite phases $Sr_{1-x}R_xF_{2+x}$ (R Are Rare Earth Elements) and their ordering: 10. Ordering under spontaneous crystallization and annealing of $Sr_{1-x}R_xF_{2+x}$ Alloys (R) Tj ETQq0 0.6gBT /Overlock 10	0.6	10
29	Thermophysical characteristics of $Ca_{1-x}Sr_xF_2$ solid-solution Crystals (0 ≤ x ≤ 1). Crystallography Reports, 2015, 60, 116-122.	0.6	21
30	Electrical and thermal conductivities of congruently melting single crystals of isovalent $M_{1-x}M_2^{2+}F_2$ solid solutions ($M, M_2 = Ca, Sr, Cd, Pb$) in relation to their defect fluorite structure. Crystallography Reports, 2015, 60, 532-536.	0.6	9
31	Thermophysical characteristics of $EuF_{2.136}$ crystal. Crystallography Reports, 2015, 60, 740-743.	0.6	7
32	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
33	Nanostructured crystals of fluorite phases $Sr_{1-x}R_xF_{2+x}$ and their ordering: 9. The defect crystal and real structure of quenched fluorite phases $Sr_{1-x}Ce_xF_{2+x}$ ($x = 0-0.5$). Crystallography Reports, 2014, 59, 14-21.	0.6	8
34	Growth and magneto-optical properties of $Na_{0.37}Tb_{0.63}F_{2.26}$ cubic single crystal. Crystallography Reports, 2014, 59, 718-723.	0.6	25
35	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
36	Nanostructured crystals of fluorite phases $Sr_{1-x}R_xF_{2+x}$ 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

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37	Coloring elimination in $\text{Sr}_{1-x}\text{Ce}_x\text{F}_{2+x}$ crystals in the visible spectral range during growth from melt. Crystallography Reports, 2013, 58, 755-759.	0.6	4
38	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 2-17.5 μm wavelength range. Crystallography Reports, 2010, 55, 122-126.	0.6	12
39	Growth and some properties of Ce ³⁺ -doped LiYbF_4 single crystals. Crystallography Reports, 2010, 55, 324-327.	0.6	2
40	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
41	Single crystals of the fluorite nonstoichiometric phase $\text{Eu}_{0.916}\text{Eu}_{0.084}\text{F}_{2.084}$ (conductivity). Tj ETQq1 1 0.784314 rgBT /Over	0.6	12
42	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
43	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 1 0.784314 rgBT /Over	0.6	11
44	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
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: 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 ETQq1 1 0.784314 rgBT /Over	0.6	14
46	Defect structure and ionic conductivity of $\text{Ca}_{1-x}\text{Sc}_x\text{F}_{2+x}$ (0.02 $\leq x \leq$ 0.15) single crystals. Crystallography Reports, 2009, 54, 572-583.	0.6	4
47	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
48	The magnetocaloric effect in high-spin paramagnetic rare-earth fluorites. Materials Chemistry and Physics, 2007, 105, 62-66.	4.0	15
49	UV and VUV spectroscopic study of $\text{Na}_{0.4}\text{Y}_{0.6}\text{F}_{2.2}$ crystals doped with rare-earth ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 101, 571-581.	0.6	5
50	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