Mikhail Borik

List of Publications by Year
in descending order

42 papers	359 citations	840585 11 h-index	940416 16 g-index
42 all docs	42 docs citations	42 times ranked	194 citing authors

#	Article	IF	Citations
1	ï»¿Thermal conductivity of single crystals zirconia stabilized by scandium, yttrium, gadolinium, and ytterbium oxides. Modern Electronic Materials, 2022, 8, 1-6.	0.2	0
2	Phase Stability and Transport Properties of (ZrO2)0.91â^'x(Sc2O3)0.09(Yb2O3)x Crystals (x = 0â€"0.01). Crystals, 2021, 11, 83.	1.0	1
3	Effect of the ionic radius of stabilizing oxide cation on the local structure and transport properties of zirconia based solid solutions. Journal of Alloys and Compounds, 2021, 870, 159396.	2.8	2
4	Influence of growth and heat treatment conditions on lasing properties of ZrO2-Y2O3-Ho2O3 crystals. Optical Materials, 2020, 99, 109611.	1.7	2
5	Phase composition and local structure of scandia and yttria stabilized zirconia solid solution. Journal of Luminescence, 2020, 222, 117170.	1.5	9
6	Structure and phase transformations in scandia, yttria, ytterbia and ceria-doped zirconia-based solid solutions during directional melt crystallization. Journal of Alloys and Compounds, 2020, 844, 156040.	2.8	6
7	Skull Melting Growth and Characterization of (ZrO2)0.89(Sc2O3)0.1(CeO2)0.01 Crystals. Crystals, 2020, 10, 49.	1.0	2
8	Features of the local structure and transport properties of ZrO2-Y2O3-Eu2O3 solid solutions. Journal of Alloys and Compounds, 2019, 770, 320-326.	2.8	19
9	Ionic conductivity, phase composition, and local defect structure of ZrO2-Gd2O3system solid solution crystals. Journal of Solid State Electrochemistry, 2019, 23, 2619-2626.	1.2	7
10	Mechanical properties and transformation hardening mechanism in yttria, ceria, neodymia and ytterbia co-doped zirconia based solid solutions. Materials Chemistry and Physics, 2019, 232, 28-33.	2.0	6
11	Spectroscopy of optical centers of Eu3+ ions in ZrO2-Gd2O3-Eu2O3 crystals. Journal of Luminescence, 2018, 200, 66-73.	1.5	3
12	Phase composition, structure and properties of (ZrO2)1â^'â^'(Sc2O3) (Y2O3) solid solution crystals (x=0.08â€"0.11; y=0.01â€"0.02) grown by directional crystallization of the melt. Journal of Crystal Growth, 2017, 457, 122-127.	0.7	15
13	Structure, phase composition, and spectral luminescence properties of partially stabilized zirconium dioxide crystals doped with Yb3+ ions. Physics of the Solid State, 2016, 58, 1308-1313.	0.2	1
14	Structure and properties of the crystals of solid electrolytes (ZrO2)1 â€" x â€" y (Sc2O3) x (Y2O3) y (x =) Tj ETQq0 0 0 rgBT /Overlock 1 2016, 52, 655-661.	0.3	1
15	Melt growth, structure and properties of (ZrO2)1â^'(Sc2O3) solid solution crystals (x=0.035â^'0.11). Journal of Crystal Growth, 2016, 443, 54-61.	0.7	15
16	Mechanical properties of partially stabilized zirconia crystals studied by kinetic microindentation. Inorganic Materials, 2015, 51, 548-552.	0.2	16
17	Spectroscopic studies of a tetragonalâ€"monoclinic phase transition in ZrO2â€"Y2O3â€"CeO2â€"Nd2O3 crystals. Physics of the Solid State, 2015, 57, 1984-1990.	0.2	0
18	Change in the phase composition, structure and mechanical properties of directed melt crystallised partially stabilised zirconia crystals depending on the concentration of Y2O3. Journal of the European Ceramic Society, 2015, 35, 1889-1894.	2.8	25

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19	Structure, phase composition, and spectral-luminescent properties of ZrO2-Y2O3-Er2O3 crystals. Physics of the Solid State, 2015, 57, 1579-1587.	0.2	5
20	Phase composition and spectral-luminescent properties of yttrium partially stabilized zirconia crystals doped with Nd2O3 and CeO2. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.2	4
21	Nanostructured crystals of partially yttria-stabilized and Nd3+ doped zirconia: Structure and luminescent properties. Journal of Alloys and Compounds, 2015, 621, 295-300.	2.8	10
22	Phase composition, structure and mechanical properties of PSZ (partially stabilized zirconia) crystals as a function of stabilizing impurity content. Journal of Alloys and Compounds, 2014, 586, S231-S235.	2.8	32
23	Study of the structural and physicochemical properties of nanostructured zirconia crystals for fabricating an innovative electrosurgical tool. Doklady Physics, 2013, 58, 161-164.	0.2	1
24	Structure and mechanical properties of crystals of partially stabilized zirconia after thermal treatment. Physics of the Solid State, 2013, 55, 1690-1696.	0.2	13
25	Features of a technique for investigation of partially stabilized zirconia crystals. Inorganic Materials, 2013, 49, 1338-1342.	0.2	3
26	Lasing characteristics of ZrO₂â€“Y₂O₃â€“Ho₂O₃crystal. Quantum Electronics, 2013, 43, 838-840.	0.3	7
27	Spectral, luminescent, and lasing properties of ZrO2â€"Y2O3â€"Tm2O3crystals. Quantum Electronics, 2012, 42, 580-582.	0.3	7
28	Effect of Y2O3 stabilizer content and annealing on the structural transformations of ZrO2. Inorganic Materials, 2012, 48, 156-160.	0.2	8
29	Structure and spectral-luminescence properties of yttrium-stabilized zirconia crystals activated with Tm3+ ions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 112, 594-600.	0.2	5
30	Thermal conductivity of single-crystal ZrO2-Y2O3 solid solutions in the temperature range 50â€“300 K. Physics of the Solid State, 2012, 54, 658-661.	0.2	10
31	Oxygen redistribution during crystal growth of ZrO2-R2O3 solid solutions. Russian Journal of Electrochemistry, 2011, 47, 442-447.	0.3	0
32	Structure and phase composition studies of partially stabilized zirconia. Journal of Surface Investigation, 2011, 5, 166-171.	0.1	11
33	Preparation and properties of Y2O3 partially stabilized ZrO2 crystals. Inorganic Materials, 2007, 43, 1223-1229.	0.2	9
34	Zirconia-based nanocrystalline material synthesized by directional crystallization from the melt. Materials Science and Engineering C, 2005, 25, 577-583.	3.8	18
35	Thermodynamic Properties of CaNdAlO4-SrNdAlO4 Solid Solutions. Inorganic Materials, 2005, 41, 850-853.	0.2	2
36	Partially stabilized zirconia single crystals: growth from the melt and investigation of the properties. Journal of Crystal Growth, 2005, 275, e2173-e2179.	0.7	32

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37	Fast luminescence of HfO2â€“Yb2O3 and ZrO2â€“Yb2O3 solid solutions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 234-238.	0.7	19
38	Room-temperature persistent spectral hole burning in Eu3+-doped inorganic glasses: the mechanisms. Journal of Luminescence, 2000, 86, 317-322.	1.5	9
39	Synthesis conditions and superconduction properties of ceramics in the (Bi,Pb)-Sr-Ca-Cu-O system. Superconductor Science and Technology, 1992, 5, 151-155.	1.8	8
40	Anomalies of the magnetic properties of granular oxide superconductor BaPb1 ?x Bi x O3. Journal of Low Temperature Physics, 1991, 85, 283-294.	0.6	8
41	Shielding anomalies in granular oxide superconductors. Physica C: Superconductivity and Its Applications, 1989, 162-164, 727-728.	0.6	0
42	Investigation of a Tb-Doped HfO₂ Single Crystal Grown by a Skull Melting Method. Key Engineering Materials, 0, 508, 81-86.	0.4	8