Pavel Fedorov

List of Publications by Citations

334 papers	4,691 citations	33 h-index	53 g-index
381 ext. papers	5,212 ext. citations	1.9 avg, IF	5.74 L-index

#	Paper	IF	Citations
334	Transparent oxyfluoride glass ceramics. *Journal of Fluorine Chemistry*, **2015**, 172, 22-50	2.1	210
333	Nanofluorides. *Journal of Fluorine Chemistry*, **2011**, 132, 1012-1039	2.1	193
332	Oriented attachment of particles: 100 years of investigations of non-classical crystal growth. *Russian Chemical Reviews*, **2014**, 83, 1204-1222	6.8	141
331	Phase diagrams of thE CaF2- (Y, Ln) F3 svstems I. Experimental. *Journal of the Less Common Metals*, **1978**, 60, 33-46		137
330	Efficient laser based on CaF(2)-SrF(2)-YbF(3) nanoceramics. *Optics Letters*, **2008**, 33, 521-3	3	103
329	On the problem of polymorphism and fusion of lanthanide trifluorides. II. Interaction of LnF3 with MF2 (M = Ca, Sr, Ba), change in structural type in the LnF3 series, and thermal characteristics. *Journal of Solid State Chemistry*, **1976**, 17, 201-212	3.3	90
328	CaF2:Yb laser ceramics. *Optical Materials*, **2013**, 35, 444-450	3.3	78
327	On the problem of polymorphism and fusion of lanthanide trifluorides. I. The influence of oxygen on phase transition temperatures. *Journal of Solid State Chemistry*, **1976**, 17, 191-199	3.3	77
326	Phase diagrams of the SrF2?(Y, Ln)F3 systems part I.X-ray characteristics of phases. *Journal of Solid State Chemistry*, **1979**, 28, 51-58	3.3	71
325	Inorganic nanofluorides and related nanocomposites. *Russian Chemical Reviews*, **2006**, 75, 1065-1082	6.8	70
324	Lead difluoride and related systems. *Russian Chemical Reviews*, **2004**, 73, 371-400	6.8	67
323	Barium borate BaB2O4as a material for nonlinear optics. *Russian Chemical Reviews*, **2002**, 71, 651-671	6.8	67
322	CdF2:In: A novel material for optically written storage of information. *Applied Physics Letters*, **1995**, 67, 31-33	3.4	57
321	Co-precipitation of yttrium and barium fluorides from aqueous solutions. *Materials Research Bulletin*, **2012**, 47, 1794-1799	5.1	54
320	Specific features of ion transport in nonstoichiometric Sr1RxF2+x phases (R=La_, Y) with the fluorite-type structure. *Solid State Ionics*, **1989**, 31, 253-268	3.3	52
319	Crystal structure of lithium and yttrium complex fluorides. *Materials Research Bulletin*, **1992**, 27, 213-220	5.1	49
318	Structural aspects of fast ionic conductivity of rare earth fluorides. *Solid State Ionics*, **2003**, 157, 195-201	3.3	46

317	Specific features of ion transport in nonstoichiometric fluorite-type Ba1−RxF2+x (R=La–Lu phases. *Solid State Ionics*, **1989**, 31, 269-280	3.3	46
316	New phases with fluorite-derived structure in CaF2?(Y, Ln)F3 systems. *Journal of Solid State Chemistry*, **1974**, 9, 368-374	3.3	46
315	Thermal conductivity of single crystals of Ca1 −x Yb x F2 + x solid solutions. *Doklady Physics*, **2008**, 53, 198-200	0.8	45
314	Diode-pumped Er:CaF2 ceramic 2.7 -μm tunable laser. *Optics Letters*, **2013**, 38, 3406-9	3	43
313	Coprecipitation from aqueous solutions to prepare binary fluorides. *Russian Journal of Inorganic Chemistry*, **2011**, 56, 1525-1531	1.5	40
312	Mechanisms of writing and decay of holographic gratings in semiconducting CdF2:Ga. *Journal of Applied Physics*, **1998**, 83, 2215-2221	2.5	40
311	Is Geometric Frustration-Induced Disorder a Recipe for High Ionic Conductivity?. *Journal of the American Chemical Society*, **2017**, 139, 5842-5848	16.4	38
310	Up-conversion quantum yields of SrF2:Yb3+,Er3+ sub-micron particles prepared by precipitation from aqueous solution. *Journal of Materials Chemistry C*, **2018**, 6, 598-604	7.1	38
309	Third law of thermodynamics as applied to phase diagrams. *Russian Journal of Inorganic Chemistry*, **2010**, 55, 1722-1739	1.5	38
308	Phase equilibrium and ionic conductivity in the PbF2?YF3 system. *Materials Research Bulletin*, **1983**, 18, 1235-1246	5.1	37
307	Phase diagrams of the CaF2-(Y,Ln) F3 systems II. A discussion. *Journal of the Less Common Metals*, **1979**, 63, 31-43		36
306	Synthesis of SrF2–YF3 nanopowders by co-precipitation from aqueous solutions. *Mendeleev Communications*, **2014**, 24, 360-362	1.9	34
305	Thermal conductivity of CaF2 optical ceramic. *Doklady Physics*, **2007**, 52, 7-9	0.8	34
304	Efficient lasing in diode-pumped Yb3+:CaF2–SrF2solid-solution single crystals. *Quantum Electronics*, **2007**, 37, 934-937	1.8	34
303	Morphological stability of solid-liquid interface during melt crystallization of M 1− R x F2+x solid solutions. *Inorganic Materials*, **2008**, 44, 1434-1458	0.9	33
302	Continuously tunable cw lasing near 2.75 -μm in diode-pumped Er3+: SrF2and Er3+: CaF2crystals. *Quantum Electronics*, **2006**, 36, 591-594	1.8	33
301	On polymorphism and morphotropism of rare earth sesquioxides. *Crystallography Reports*, **2002**, 47, 281-286	0.6	32
300	Concentration dependences of the unit-cell parameters of nonstoichiometric fluorite-type Na0.5 − x R 0.5 + x F2 + 2x phases (R = rare-earth elements). *Crystallography Reports*, **2001**, 46, 239-245	0.6	31

299	Fast ionic conductivity of PbF2:MF2 (M=Mg, Ba, Cd) and PbF2:ScF3 single crystals and composites. *Solid State Ionics*, **1999**, 119, 181-189	3.3	31
298	Upconversion properties of SrF2:Yb3+,Er3+ single crystals. *Journal of Materials Chemistry C*, **2020**, 8, 4093-4101	7.4	30
297	Investigation of Nd3+ ions spectroscopic and laser properties in SrF2 fluoride single crystal. *Optical Materials*, **2012**, 34, 799-802	3.3	30
296	Specific features of ionic transport in nonstoichiometric fluorite-type Ca1−xRxF2+x (R==La_Lu, Y, Sc) phases. *Solid State Ionics*, **1990**, 37, 125-137	3.3	30
295	Au–Cu Phase Diagram. *Russian Journal of Inorganic Chemistry*, **2016**, 61, 772-775	1.5	29
294	Fluoride solid electrolytes. *Russian Journal of Electrochemistry*, **2009**, 45, 630-639	1.2	29
293	An investigation of the growth of β-BaB2O4 crystals in the BaB2O4-NaF system and new fluoroborate Ba2Na3[B3O6]2F. *Crystallography Reports*, **2009**, 54, 146-151	0.6	29
292	Crystal Growth and Phase Equilibria in the BaB2O4–NaF System. *Crystal Growth and Design*, **2009**, 9, 4060-4063	3.9	28
291	Fluoride solid electrolytes containing rare earth elements. *Journal of Rare Earths*, **2008**, 26, 225-232	3.7	28
290	Scintillation parameters of BaF2 and BaF2:Ce3+ ceramics. *Optical Materials*, **2010**, 32, 1291-1293	3.3	27
289	Ionic conductivity in the single crystals of non-stoichiometric fluorite phases M1−xRxF2+x (M=Ca, Sr, Ba; R=Y, La-Lu). *Solid State Ionics*, **1982**, 6, 331-335	3.3	27
288	Diamond-EuF3 nanocomposites with bright orange photoluminescence. *Diamond and Related Materials*, **2017**, 72, 47-52	3.5	26
287	Thermal conductivity and expansion of PbF2 single crystals. *Ionics*, **2017**, 23, 233-239	2.7	26
286	Phase formation in LaF3–NaGdF4, NaGdF4–NaLuF4, and NaLuF4–NaYF4 systems: Synthesis of powders by co-precipitation from aqueous solutions. *Journal of Fluorine Chemistry*, **2014**, 161, 95-101	2.1	26
285	Synthesis of Ba4R3F17 (R stands for rare-earth elements) powders and transparent compacts on their base. *Russian Journal of Inorganic Chemistry*, **2010**, 55, 484-493	1.5	26
284	Preparation of MgO nanoparticles. *Inorganic Materials*, **2007**, 43, 502-504	0.9	26
283	White light luminophores based on Yb3+/Er3+/Tm3+-coactivated strontium fluoride powders. *Materials Chemistry and Physics*, **2014**, 148, 201-207	4.4	25
282	Investigation of the mechanisms of upconversion luminescence in Ho3+ doped CaF2 crystals and ceramics upon excitation of 5I7 level. *Journal of Luminescence*, **2015**, 167, 120-125	3.8	24

281	Progress in fluoride laser ceramics. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2013**, 10, 952-957		24
280	Preparation of nanopowdered M1 R x F2+x (M = Ca, Sr, Ba; R = Ce, Nd, Er, Yb) Solid Solutions. *Russian Journal of Inorganic Chemistry*, **2007**, 52, 315-320	1.5	24
279	Properties of CdF2:Ga as a medium for real-time holography. *Applied Physics B: Lasers and Optics*, **2001**, 72, 677-683	1.9	24
278	Oxysulfide optical ceramics doped by Nd3+ for one micron lasing. *Journal of Luminescence*, **2007**, 125, 201-215	3.8	23
277	Lower Rare-Earth Molybdates. *Inorganic Materials*, **2003**, 39, S25-S45	0.9	23
276	New Sr1RxNH4zF2+x R=Yb, Er solid solution as precursor for high efficiency up-conversion luminophor and optical ceramics on the base of strontium fluoride. *Materials Chemistry and Physics*, **2016**, 172, 150-157	4.4	22
275	Fluoride optical nanoceramics. *Russian Chemical Bulletin*, **2008**, 57, 877-886	1.7	22
274	Soft chemical synthesis of NaYF4 nanopowders. *Russian Journal of Inorganic Chemistry*, **2008**, 53, 1681-1685		22
273	Microstructure and physical properties of superionic eutectic composites of the LiFRF3 (R=rare earth element) system. *Solid State Ionics*, **1999**, 119, 173-180	3.3	22
272	Polymorphism of ErF3 and position of a third morphotropic transition in the lanthanide trifluoride series. *Materials Research Bulletin*, **1976**, 11, 999-1003	5.1	22
271	Solid solution with fluorite structure in the CaF2 - LaF3 system. *Crystal Research and Technology: Journal of Experimental and Industrial Crystallography*, **1979**, 14, 365-369		22
270	Visualiser of two-micron laser radiation based on Ho:CaF2crystals. *Quantum Electronics*, **2014**, 44, 602-605	1.8	21
269	Synthesis of calcium, strontium, and barium fluorides by thermal decomposition of trifluoroacetates. *Russian Journal of Inorganic Chemistry*, **2006**, 51, 983-987	1.5	21
268	Fluoroindate glasses. *Russian Chemical Reviews*, **2000**, 69, 705-716	6.8	21
267	The Ternary Reciprocal System Na, Ba // BO2, F. *Crystal Growth and Design*, **2012**, 12, 129-134	3.5	20
266	Phase formation in the BaB2O4BaF2BaO system and new non-centrosymmetric solid-solution series Ba7(BO3)4F2+3x. *CrystEngComm*, **2012**, 14, 6910	3.3	20
265	Nanostructured Tm : CaF2ceramics: potential gain media for two micron lasers. *Quantum Electronics*, **2011**, 41, 193-197	1.8	20
264	Thermal conductivity of single crystals of Sr1 x Yb x F2 + x solid solution. *Doklady Physics*, **2008**, 53, 413-415	0.8	20

263	Crystal structure of the new barium borate Ba5(BO3)2(B2O5). *Crystallography Reports*, **2006**, 51, 219-224	0.6	20
262	Spectroscopy and laser emission of disordered GdF3?CaF2: Nd3+ trigonal crystals. *Physica Status Solidi A*, **1982**, 70, 397-406		20
261	Phase diagram of the system CaF2–YF3. *Journal of Crystal Growth*, **1974**, 26, 61-64	1.6	20
260	The Melt of Sodium Nitrate as a Medium for the Synthesis of Fluorides. *Inorganics*, **2018**, 6, 38	2.9	19
259	Crystal Growth of Fluorides **2010**, 339-355		19
258	Investigation of phase equilibria and growth of BBO (β-BaB2O4) crystals in BaO–B2O3–Na2O ternary system. *Journal of Crystal Growth*, **2008**, 310, 1943-1949	1.6	19
257	Spectroscopic, luminescent and laser properties of nanostructured CaF2:Tm materials. *Optical Materials*, **2013**, 35, 1859-1864	3.3	18
256	Synthesis of inorganic fluorides in molten salt fluxes and ionic liquid mediums. *Journal of Fluorine Chemistry*, **2019**, 227, 109374	2.1	17
255	A new mechanism of anionic substitution in fluoride borates. *Journal of Applied Crystallography*, **2013**, 46, 1081-1084	3.8	17
254	Thermal conductivity of single crystals with a fluorite structure: Cadmium fluoride. *Physics of the Solid State*, **2010**, 52, 504-508	0.8	17
253	Donor impurities and DX centers in the ionic semiconductor CdF2. *Physics of the Solid State*, **1997**, 39, 943-947	0.8	17
252	Thermal conductivity of single crystals of Ba1 − x Yb x F2 + x solid solution. *Doklady Physics*, **2008**, 53, 353-355	0.8	17
251	Comparison of the optical parameters of a CaF2single crystal and optical ceramics. *Quantum Electronics*, **2007**, 37, 27-28	1.8	17
250	Upconversion luminescence of Ca1−xHoxF2+xand Sr0.98−xEr0.02HoxF2.02+xpowders upon excitation by an infrared laser. *Laser Physics Letters*, **2017**, 14, 076003	1.5	16
249	Synthesis and luminescence studies of CaF2:Yb:Pr solid solutions powders for photonics. *Journal of Fluorine Chemistry*, **2018**, 211, 70-75	2.1	16
248	Spatial inhomogeneity in crystalline materials and saddle-type congruent melting points in ternary systems. *Russian Chemical Reviews*, **2012**, 81, 1-20	6.8	16
247	Anomalously high fracture toughness of polycrystalline optical fluorite from the suran deposit (South Urals). *Doklady Physics*, **2006**, 51, 10-12	0.8	16
246	Thermophysical characteristics of Ca1− x Sr x F2 solid-solution Crystals (0 ⩽ x ⩽ 1). *Crystallography Reports*, **2015**, 60, 116-122	0.6	15

245	Simultaneous Measurement of the Emission Quantum Yield and Local Temperature: The Illustrative Example of SrF2:Yb3+/Er3+ Single Crystals. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1555-1561	2.3	15
244	New fast scintillators on the base of BaF2 crystals with increased light yield of 0.9ns luminescence for TOF PET. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2012**, 695, 369-372	1.2	15
243	BaF2:Ce3+ scintillation ceramics. *Doklady Physics*, **2008**, 53, 485-488	0.8	15
242	Interaction of oxyfluorides of rare earth elements with fluorides having the fluorite structure. *Journal of the Less Common Metals*, **1980**, 76, 55-62		15
241	Absorption and luminescence spectra of CeF3-doped BaF2 single crystals and nanoceramics. *Inorganic Materials*, **2016**, 52, 213-217	0.9	14
240	Infrared-to-visible upconversion luminescence in SrF2:Er powders upon excitation of the 4I13/2 level. *Optical Materials Express*, **2018**, 8, 1863	2.6	14
239	Nucleation and growth of fluoride crystals by agglomeration of the nanoparticles. *Journal of Crystal Growth*, **2014**, 401, 63-66	1.6	14
238	Nanostructure of optical fluoride ceramics. *Inorganic Materials: Applied Research*, **2011**, 2, 97-103	0.6	14
237	Electrical Properties of PbSnF4Materials Prepared by Different Methods. *Inorganic Materials*, **2001**, 37, 1178-1182	0.9	14
236	Phase diagrams of MgF2-(Y, Ln)F3 systems. *Journal of Theoretical Biology*, **1979**, 15, 355-360	2.3	14
235	Diamond–Rare Earth Composites with Embedded NaGdF4:Eu Nanoparticles as Robust Photo- and X-ray-Luminescent Materials for Radiation Monitoring Screens. *ACS Applied Nano Materials*, **2020**, 3, 1324-1331	5.6	13
234	BaO–B2O3 system and its mysterious member Ba3B2O6. *Journal of the American Ceramic Society*, **2018**, 101, 450-457	3.8	13
233	Upconversion microparticles as time-resolved luminescent probes for multiphoton microscopy: desired signal extraction from the streaking effect. *Journal of Biomedical Optics*, **2016**, 21, 96002	3.5	13
232	Preparation and properties of methylcellulose/nanocellulose/□F-2 :□polymer-inorganic composite films for two-micron radiation visualizers. *Journal of Fluorine Chemistry*, **2017**, 202, 9-18	2.1	13
231	Coprecipitation of barium-bismuth fluorides from aqueous solutions: Nanochemical effects. *Nanotechnologies in Russia*, **2011**, 6, 203-210	0.6	13
230	Optical lithium fluoride ceramics. *Doklady Physics*, **2007**, 52, 677-680	0.8	13
229	Incorporation of alkali impurities into single crystals of barium metaborate □BaB2O4. *Crystallography Reports*, **2002**, 47, 559-565	0.6	13
228	CaF2-BaF2 phase diagram. *Doklady Physical Chemistry*, **2005**, 401, 53-55	0.8	13

227	Phase diagram of the system CaF2-GdF3. *Journal of Theoretical Biology*, **1975**, 8, 239-245	2.3	13
226	Low-temperature phase formation in the B°F2-CeF3 system. *Journal of Fluorine Chemistry*, **2016**, 187, 33-39	2.1	13
225	Preparation of nanodispersed fluorite-type Sr1RxF2+x (R=Er, Yb, Ho) phases from citrate solutions. *Journal of Fluorine Chemistry*, **2017**, 194, 8-15	2.1	12
224	Preparation of barium monohydrofluoride BaF2HF from nitrate aqueous solutions. *Materials Research Bulletin*, **2014**, 49, 199-205	5.1	12
223	Additive colouring of CaF2:Yb crystals: determination of Yb2+ concentration in CaF2:Yb crystals and ceramics. *Applied Physics B: Lasers and Optics*, **2013**, 111, 551-557	1.9	12
222	Specifics of high-temperature coarsening of ceria nanoparticles. *Russian Journal of Inorganic Chemistry*, **2009**, 54, 1689-1696	1.5	12
221	Structural, spectral-luminescent, and lasing properties of nanostructured Tm : CaF2ceramics. *Quantum Electronics*, **2012**, 42, 853-857	1.8	12
220	Distribution coefficients of impurities in cadmium fluoride. *Inorganic Materials*, **2000**, 36, 392-396	0.9	12
219	An up-conversion luminophore with high quantum yield and brightness based on BaF2:Yb3+,Er3+ single crystals. *Journal of Materials Chemistry C*, **2021**, 9, 3493-3503	7.1	12
218	Synthesis of ultrafine fluorite Sr1 x Nd x F2 + x powders. *Inorganic Materials*, **2012**, 48, 531-538	0.9	11
217	Thermal conductivity of FeS2 pyrite crystals in the temperature range 50300 K. *Crystallography Reports*, **2013**, 58, 319-321	0.6	11
216	Fluoride laser nanoceramics. *Journal of Physics: Conference Series*, **2012**, 345, 012017	0.3	11
215	Cooperative formation of crystals by aggregation and intergrowth of nanoparticles. *Doklady Physics*, **2011**, 56, 205-207	0.8	11
214	Spectral-kinetic characteristics of crystals and nanoceramics based on BaF2 and BaF2: Ce. *Physics of the Solid State*, **2010**, 52, 1910-1914	0.8	11
213	Physical Properties of Fluoride Glasses for Ionics. *Materials Science Forum*, **2005**, 480-481, 299-304	0.4	11
212	A structural model for fluoride ionic transport in Ba1HoxF2+x solid solutions (x?0.1). *Solid State Ionics*, **1990**, 37, 115-121	3.3	11
211	Morphotropism of Rare-Earth Orthoborates RBO3. *Journal of Structural Chemistry*, **2019**, 60, 679-691	0.9	10
210	Thermal conductivity of single crystals of the Ca1 x Y x F2 + x solid solution. *Doklady Physics*, **2014**, 59, 199-202	0.8	10

209	Thermal conductivity of single crystals of Ca1 □x Er x F2 + x and Ca1 □x Tm x F2 + x solid solutions. *Doklady Physics*, **2012**, 57, 97-99	0.8	10
208	Thermal expansion of solid solutions based on calcium and barium fluorides. *Inorganic Materials*, **2013**, 49, 525-527	0.9	10
207	Two-dimensional metal nano-particles and layers in dielectric calcium fluoride crystals. *Applied Surface Science*, **2013**, 267, 112-114	6.7	10
206	Optical absorption in CaF2nanoceramics. *Quantum Electronics*, **2009**, 39, 943-947	1.8	10
205	Electrical conductivity of a CaF2-BaF2 nanocomposite. *Inorganic Materials*, **2008**, 44, 189-192	0.9	10
204	Growth of Bulk InBO3 Crystals. *Inorganic Materials*, **2004**, 40, 1208-1210	0.9	10
203	Nanoporous Crystalline Material CsLiB6O10. *Inorganic Materials*, **2002**, 38, 1264-1269	0.9	10
202	Morphological Stability of the Solidification Front near Minima and Maxima in the Liquidus Line in Binary Solid-Solution Systems. *Inorganic Materials*, **2001**, 37, 84-92	0.9	10
201	Microstructure and fast ionic conduction of inorganic fluoride and oxide eutectic composites prepared from the melt. *Solid State Ionics*, **2000**, 136-137, 11-17	3.3	10
200	Investigation of stimulated emission of the 4F3/2 -i4I13/2 transition of Nd3+ ions in crystals. *Physica Status Solidi A*, **1974**, 26, K63-K65		10
199	Phase diagram of the NaF□CaF2 system and the electrical conductivity of a CaF2-based solid solution. *Russian Journal of Inorganic Chemistry*, **2016**, 61, 1472-1478	1.5	10
198	Thermal conductivity of Ca1 □x Ho x F2 + x optical ceramics. *Inorganic Materials*, **2012**, 48, 857-860	0.9	9
197	Phase equilibria and □BaB2O4 crystal growth in the BaB2O4□BaF2 system. *CrystEngComm*, **2011**, 13, 3822	3.3	9
196	Two-dimensional metal inclusions in a dielectric crystal. *Physics of the Solid State*, **2011**, 53, 1484-1491	0.8	9
195	Phase equilibria in the Ba2Na3[B3O6]2F-BaF2 system. *Crystallography Reports*, **2010**, 55, 877-881	0.6	9
194	Synthesis of scandium orthoborate powders. *Inorganic Materials*, **2006**, 42, 171-175	0.9	9
193	Classification of Fluoroaluminate Glasses. *Inorganic Materials*, **2003**, 39, 640-644	0.9	9
192	Growth and structure of barium sodium orthoborate NaBaBO3 crystals. *Crystallography Reports*, **2003**, 48, 1044-1046	0.6	9

191	Structural chemistry of anionic fluoride and mixed-ligand fluoride complexes of indium(III). *Reviews in Inorganic Chemistry*, **2016**, 36,	2.4	8
190	Microstructure and scintillation characteristics of BaF2 ceramics. *Inorganic Materials*, **2014**, 50, 738-744	0.9	8
189	Yttrium carbonate thermolysis. *Russian Journal of Inorganic Chemistry*, **2012**, 57, 237-241	1.5	8
188	Search for compounds of the NaBaR(BO3)2 family (R = La, Nd, Gd, and Yb) and the new NaBaYb(BO3)2 orthoborate. *Crystallography Reports*, **2013**, 58, 54-60	0.6	8
187	Stabilization of high-temperature disorder of fluorine sublattice by quenching in calcium fluoride crystals. *Journal of Fluorine Chemistry*, **2017**, 200, 109-114	2.1	8
186	Heat conductivity of Ca1-x R x F2+x (R = La, Ce, or Pr; 0 □x □0.25) heterovalent solid solutions. *Crystallography Reports*, **2015**, 60, 744-748	0.6	8
185	Synthesis and luminescent characteristics of submicron powders on the basis of sodium and yttrium fluorides doped with rare earth elements. *Nanotechnologies in Russia*, **2012**, 7, 615-628	0.6	8
184	Anisotropy of the ionic conductivity and dielectric response in orthorhombic and monoclinic inorganic fluorides. *Ionics*, **1997**, 3, 313-320	2.7	8
183	Chemical transformations of basic yttrium nitrates during ultrasonic-hydrothermal treatment. *Russian Journal of Inorganic Chemistry*, **2006**, 51, 1689-1695	1.5	8
182	A new class of holographic materials based on semiconductor CdF2 crystals with bistable centers. Part II. Growth of optically perfect crystals. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2002**, 92, 125-132	0.7	8
181	Electrical properties of heavily doped fluorite-structured BaF2:RF3 (R=La, Pr, Nd, Gd, Tb, Y, Sc) single crystals. *Ionics*, **2000**, 6, 351-358	2.7	8
180	Composite up-conversion luminescent films containing a nanocellulose and SrF2:Ho particles. *Cellulose*, **2019**, 26, 2403-2423	5.5	8
179	Indium iodides. *Russian Chemical Reviews*, **2017**, 86, 240-268	6.8	7
178	Electronic structure, magnetic and optical properties of the Ba7(BO3)4F2+3 crystal. *Journal of Solid State Chemistry*, **2015**, 229, 358-365	3.3	7
177	Relationship between the Faceting of Crystals and Their Formation Mechanism. *Doklady Physics*, **2019**, 64, 353-355	0.8	7
176	Effect of the pH on the formation of NaYF4:Yb:Er nanopowders by co-crystallization in presence of polyethyleneimine. *Journal of Fluorine Chemistry*, **2014**, 158, 60-64	2.1	7
175	Di- and trivalent ytterbium distributions along a melt-grown CaF2 crystal. *Inorganic Materials*, **2014**, 50, 733-737	0.9	7
174	Thermal conductivity of LaF3-based single crystals and ceramics. *Inorganic Materials*, **2012**, 48, 304-308	0.9	7

173	Phase diagrams of the systems Ln2S3-Ln2O3 (Ln = Gd, Dy). *Russian Journal of Inorganic Chemistry*, **2013**, 58, 724-727	1.5	7
172	Diode pumped tunable lasers based on Tm:CaF2and Tm:Ho:CaF2ceramics **2014**,		7
171	Fluoride laser ceramics **2013**, 82-109		7
170	Additive coloring of CaF2 optical ceramic. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2011**, 110, 604-608	0.7	7
169	A study of the transport of thermal acoustic phonons in CaF2 single crystals and ceramics within the subterahertz frequency range. *Doklady Physics*, **2009**, 54, 14-17	0.8	7
168	Yttrium oxide nanopowders from carbonate precursors. *Russian Journal of Inorganic Chemistry*, **2010**, 55, 821-827	1.5	7
167	Preparation of NaREF4 phases from the sodium nitrate melt. *Journal of Fluorine Chemistry*, **2019**, 218, 69-75	2.1	7
166	Optical study of calcium precipitates in additively colored CaF2 crystals. *Journal of the Optical Society of America B: Optical Physics*, **2018**, 35, 1288	1.7	7
165	Self-organization of color centers in holograms recorded in additively colored CaF2 crystals. *Optical Materials*, **2015**, 47, 190-195	3.3	6
164	Elaboration of Nanofluorides and Ceramics for Optical and Laser Applications **2016**, 7-31		6
163	Phase Equilibria in LiYF4 LiLuF4 System and Heat Conductivity of LiY1 Lu x F4 Single Crystals. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 433-438	1.5	6
162	Soft chemistry synthesis of powders in the BaF2-ScF3 system. *Russian Journal of Inorganic Chemistry*, **2014**, 59, 773-777	1.5	6
161	Synthesis of MgAl2O4 nanopowders. *Inorganic Materials*, **2011**, 47, 895-898	0.9	6
160	Superionic fluoride ceramics RF3 and R0.95Sr0.05F2.95 (R = La, Ce, Pr, Nd) prepared by hot pressing. *Russian Journal of Electrochemistry*, **2009**, 45, 606-608	1.2	6
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