

# Elena A Dobretsova

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Safe and Scalable Polyethylene Glycol-Assisted Hydrothermal Synthesis and Laser Cooling of 10%Yb <sup>3+</sup> :LiLuF <sub>4</sub> Crystals. Applied Sciences (Switzerland), 2022, 12, 774.	2.5	4
2	The influence of the Sc <sup>3+</sup> dopant on the transmittance of (Y, <sub>1-x</sub> Tm <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> :Er <sub>3+</sub> laser crystals. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2021, 129, 37-41.	3.3	3
3	Hydrothermal Synthesis and Solid-State Laser Refrigeration of Ytterbium-Doped Potassium-Lutetium-Fluoride (KLF) Microcrystals. Chemistry of Materials, 2021, 33, 4417-4424.	6.7	10
4	Hydrothermal Synthesis of Yb <sup>3+</sup> :LuLiF <sub>4</sub> Microcrystals and Laser Refrigeration of Yb <sup>3+</sup> :LuLiF <sub>4</sub> /Silicon Nitride Composite Nanostructures. Laser and Photonics Reviews, 2021, 15, 2100019.	8.7	12
5	Structural Specific Features of Solid Solutions Nd <sub>x</sub> Gd <sub>1-x</sub> Cr <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2021, 129, 37-41.	0.6	1
6	Thermal and magnetic properties and optical spectroscopy of SmCr <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . Physical Review Materials, 2021, 5, .	2.4	1
7	Growth and Characterization of Neodymium-Doped Yttrium Scandate Crystal Fiber with a Bixbyite-type Crystal Structure. Crystal Growth and Design, 2020, 20, 4593-4599.	3.0	9
8	Spectroscopy of Nd doped yttrium scandate crystal fiber. , 2020, , .		0
9	Optical properties of 50 at.% Er <sup>3+</sup> :YAG ceramics. , 2020, , .		1
10	Laser refrigeration of ytterbium-doped alkali-yttrium-fluoride nanostructures (Yb:MYF, M = K, Na, Li). , 2019, , .		0
11	Phase transitions and exchange interactions in the SmCr <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> crystal. EPJ Web of Conferences, 2017, 132, 02008.	0.3	2
12	Structural and optical properties of Nd <sub>x</sub> Gd <sub>1-x</sub> Cr <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> solid solutions. EPJ Web of Conferences, 2017, 132, 03012.	0.3	1
13	Infrared spectroscopy of europium borates EuM <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> (M = Al, Cr, Fe, Ga) with a huntite mineral type of structure. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 546-550.	0.6	2
14	The study of chromium borate CrBO <sub>3</sub> by optical and IR spectroscopy. Low Temperature Physics, 2017, 43, 728-731.	0.6	2
15	Vibrational spectroscopy of GdCr <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> : quantitative separation of crystalline phases. Journal of Physics: Conference Series, 2016, 737, 012035.	0.4	6
16	New isoformula borates with similar structures and different properties – Acentric nonlinear optical KGd[B <sub>6</sub> O <sub>10</sub> (OH) <sub>2</sub> ] and centrosymmetric KHo[B <sub>6</sub> O <sub>10</sub> (OH) <sub>2</sub> ]. Solid State Sciences, 2015, 46, 43-48.	3.2	5
17	Crystal growth, structure, infrared spectroscopy, and luminescent properties of rare-earth gallium borates RGa <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> , R=Nd, Sm, Er, Y. Optical Materials, 2015, 49, 304-311.	3.6	28
18	IR spectroscopy of rare-earth aluminum borates RAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> (R = Y, Pr-Yb). Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2014, 116, 77-83.	0.6	22

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19	Vibrational spectra and factor group analysis of rare-earth chromium borates, $RCr_3(BO_3)_4$ , with $R=La\text{--}Ho$ . <i>Vibrational Spectroscopy</i> , 2013, 68, 82-90.	2.2	31
20	Polytypic modifications of huntite-like rare earth aluminium and gallium borates $RM_3(BO_3)_4$ , where $R=Y, Ce, Yb, M=Al, Ga$ . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s454-s454.	0.3	0
21	The $Nd\text{--}Gd$ chromium borates solid solutions: structures and phase relations. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, s234-s234.	0.3	0
22	Infrared spectroscopy and the structure of rare-earth chromium borates $RCr_3(BO_3)_4$ ( $R = La\text{--}Er$ ). <i>Journal of Structural Chemistry</i> , 2011, 52, 699-707.	1.0	20