

# Elena A Dobretsova

## List of Publications by Year in descending order

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22  
papers

169  
citations

1307594

7  
h-index

1125743

13  
g-index

35  
all docs

35  
docs citations

35  
times ranked

149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational spectra and factor group analysis of rare-earth chromium borates, $\text{RCr}_3(\text{BO}_3)_4$ , with $\text{R}=\text{La}\text{--}\text{Ho}$ . <i>Vibrational Spectroscopy</i> , 2013, 68, 82-90.	2.2	31
2	Crystal growth, structure, infrared spectroscopy, and luminescent properties of rare-earth gallium borates $\text{RGa}_3(\text{BO}_3)_4$ , $\text{R}=\text{Nd}, \text{Sm}\text{--}\text{Er}$ , Y. <i>Optical Materials</i> , 2015, 49, 304-311.	3.6	28
3	IR spectroscopy of rare-earth aluminum borates $\text{RAI}_3(\text{BO}_3)_4$ ( $\text{R} = \text{Y}, \text{Pr}\text{--}\text{Yb}$ ). <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014, 116, 77-83.	0.6	22
4	Infrared spectroscopy and the structure of rare-earth chromium borates $\text{RCr}_3(\text{BO}_3)_4$ ( $\text{R} = \text{La}\text{--}\text{Er}$ ). <i>Journal of Structural Chemistry</i> , 2011, 52, 699-707.	1.0	20
5	Hydrothermal Synthesis of $\text{Yb}^{3+}$ : $\text{LuLiF}_4$ Microcrystals and Laser Refrigeration of $\text{Yb}^{3+}$ : $\text{LuLiF}_4$ /Silicon Nitride Composite Nanostructures. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100019.	8.7	12
6	Hydrothermal Synthesis and Solid-State Laser Refrigeration of Ytterbium-Doped Potassium-Lutetium-Fluoride (KLF) Microcrystals. <i>Chemistry of Materials</i> , 2021, 33, 4417-4424.	6.7	10
7	Growth and Characterization of Neodymium-Doped Yttrium Scandate Crystal Fiber with a Bixbyite-type Crystal Structure. <i>Crystal Growth and Design</i> , 2020, 20, 4593-4599.	3.0	9
8	The influence of the $\text{Sc}^{3+}$ dopant on the transmittance of $(\text{Y}, \text{Tj})\text{ETQ}000\text{rgBT}/\text{Overlock } 10\text{Tf } 50462\text{Td}(\text{Er})\zeta_{\text{sub}}^{3+}/\text{su}$	3.3	9
9	Vibrational spectroscopy of $\text{GdCr}_3(\text{BO}_3)_4$ : quantitative separation of crystalline phases. <i>Journal of Physics: Conference Series</i> , 2016, 737, 012035.	0.4	6
10	New isoformula borates with similar structures and different properties – Acentric nonlinear optical $\text{KGd}[\text{B}_6\text{O}_{10}(\text{OH})_2]$ and centrosymmetric $\text{KHo}[\text{B}_6\text{O}_{10}(\text{OH})_2]$ . <i>Solid State Sciences</i> , 2015, 46, 43-48.	3.2	5
11	Safe and Scalable Polyethylene Glycol-Assisted Hydrothermal Synthesis and Laser Cooling of $10\%\text{Yb}^{3+}:\text{LiLuF}_4$ Crystals. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 774.	2.5	4
12	Phase transitions and exchange interactions in the $\text{SmCr}_3(\text{BO}_3)_4$ crystal. <i>EPJ Web of Conferences</i> , 2017, 132, 02008.	0.3	2
13	Infrared spectroscopy of europium borates $\text{EuM}_3(\text{BO}_3)_4$ ( $\text{M} = \text{Al}, \text{Cr}, \text{Fe}, \text{Ga}$ ) with a huntite mineral type of structure. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017, 81, 546-550.	0.6	2
14	The study of chromium borate $\text{CrBO}_3$ by optical and IR spectroscopy. <i>Low Temperature Physics</i> , 2017, 43, 728-731.	0.6	2
15	Structural and optical properties of $\text{Nd}_x\text{Gd}_{1-x}\text{Cr}_3(\text{BO}_3)_4$ solid solutions. <i>EPJ Web of Conferences</i> , 2017, 132, 03012.	0.3	1
16	Structural Specific Features of Solid Solutions $\text{Nd}_x\text{Gd}_{1-x}\text{Cr}_3(\text{BO}_3)_4$ . <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2021, 129, 37-41.	0.6	1
17	Thermal and magnetic properties and optical spectroscopy of $\text{SmCr}_3(\text{BO}_3)_4$ . <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
18	Optical properties of 50 at.% $\text{Er}^{3+}:\text{YAG}$ ceramics. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Polytypic modifications of huntite-like rare earth aluminium and gallium borates $RM_3(BO_3)_4$ , where R = Y, Ce, Yb, M = Al, Ga. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s454-s454.	0.3	0
20	The Nd-Gd chromium borates solid solutions: structures and phase relations. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s234-s234.	0.3	0
21	Laser refrigeration of ytterbium-doped alkali-yttrium-fluoride nanostructures (Yb:MYF, M = K, Na, Li). , 2019, , .		0
22	Spectroscopy of Nd doped yttrium scandate crystal fiber. , 2020, , .		0