

# Sergey Grechin

## List of Publications by Year in descending order

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39  
papers

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docs citations

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times ranked

105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diode-side-pumped laser heads for solid-state lasers. Quantum Electronics, 2009, 39, 1-17.	0.3	25
2	Thermophysical parameters of the LBO crystal. Quantum Electronics, 2010, 40, 509-512.	0.3	18
3	Functional possibilities of nonlinear crystals for laser frequency conversion: biaxial crystals. Quantum Electronics, 2016, 46, 995-1001.	0.3	14
4	Integral criterion for selecting nonlinear crystals for frequency conversion. Quantum Electronics, 2009, 39, 171-173.	0.3	13
5	Complete classification of interaction types for the second-harmonic generation in biaxial nonlinear crystals. Quantum Electronics, 2000, 30, 377-386.	0.3	11
6	Frequency Conversion in KTP Crystal and Its Isomorphs. Crystals, 2018, 8, 386.	1.0	11
7	Temperature-independent phase matching for second-harmonic generation in a KTP crystal. Quantum Electronics, 1999, 29, 77-81.	0.3	10
8	Anomalously temperature-noncritical phase matching in frequency conversion in nonlinear crystals. Quantum Electronics, 1998, 28, 937-938.	0.3	9
9	Functional possibilities of nonlinear crystals for frequency conversion: uniaxial crystals. Quantum Electronics, 2016, 46, 33-38.	0.3	9
10	Optical properties of a nonlinear LiInS <sub>2</sub> crystal. Quantum Electronics, 2001, 31, 647-648.	0.3	8
11	Dispersion of the temperature-noncritical frequency conversion and birefringence in biaxial optical crystals. Quantum Electronics, 2004, 34, 461-466.	0.3	8
12	Second-harmonic generation under conditions of simultaneous phase-matched and quasi-phase-matched interactions in nonlinear crystals with a regular domain structure. Quantum Electronics, 1999, 29, 155-157.	0.3	7
13	Temperature-noncritical third harmonic generation in an LBO crystal. Quantum Electronics, 2004, 34, 565-568.	0.3	7
14	Anomalous temperature-independent birefringence in a biaxial optical LBO crystal. Quantum Electronics, 2000, 30, 285-286.	0.3	5
15	Quasi-phase-matching conditions for a simultaneous generation of several harmonics of laser radiation in periodically poled crystals. Quantum Electronics, 2001, 31, 933-936.	0.3	5
16	Phase matching and frequency-noncritical interactions upon frequency conversion of femtosecond pulses. Quantum Electronics, 2006, 36, 45-50.	0.3	5
17	<title>Wide band-frequency converters for lidar systems</title>. , 2002, 4546, 119.		4
18	Simulation of thermo-optic coupling in the thermally anisotropic gallium selenide crystal for second harmonic generation. Laser Physics Letters, 2014, 11, 075402.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Anomalous temperature-independent birefringence in biaxial optical crystals. Quantum Electronics, 2000, 30, 1-2.	0.3	3
20	Doubling microsecond single pulses in a KTP crystal. Quantum Electronics, 2001, 31, 643-646.	0.3	3
21	Applied nonlinear optics in the journal 'Quantum Electronics'. Quantum Electronics, 2011, 41, 1061-1068.	0.3	3
22	New Sellmeier and Thermo-Optic Dispersion Formulas for AgGaS <sub>2</sub> . Crystals, 2019, 9, 129.	1.0	3
23	Simultaneous generation of a second harmonic of laser radiation by three types of interaction in nonlinear crystals with a regular domain structure. Quantum Electronics, 1999, 29, 151-154.	0.3	2
24	Functional possibilities for forming different inverse population distributions in diode-side-pumped laser heads. Quantum Electronics, 2014, 44, 912-920.	0.3	2
25	Sum and difference frequency generation in a PIT crystal. Laser Physics, 2019, 29, 105402.	0.6	2
26	Second harmonic generation in periodically poled crystals for two types of interaction. Quantum Electronics, 2001, 31, 929-932.	0.3	1
27	Phase matching and optical properties of LiInS <sub>2</sub> nonlinear crystal. , 2002, , .		1
28	New possibilities in design of femtosecond light sources for lidar applications. , 2003, , .		1
29	Angular phase-matching bandwidths in biaxial nonlinear crystals for frequency converters. Quantum Electronics, 2010, 40, 822-827.	0.3	1
30	The influence of thermal deformation processes on frequency conversion in an LBO crystal. Laser Physics Letters, 2014, 11, 125402.	0.6	1
31	Fourier space method for calculating the propagation of laser radiation in biaxial crystals taking into account the angle between the eigenpolarisations. Quantum Electronics, 2014, 44, 34-41.	0.3	1
32	Antisymmetric Distribution of Permanent Refractive Index Change in $\hat{1}^2$ -BaB <sub>2</sub> O <sub>4</sub> Crystal Under Exposure of Femtosecond Pulses.. MATEC Web of Conferences, 2013, 8, 02003.	0.1	0
33	Periodical double frequency YAG:Nd laser for pumping parametric amplifier. , 2014, , .		0
34	Thermo-optical properties of LBO crystal for angular non-critical phase matching for second harmonic generation along X-axis. , 2014, , .		0
35	Simulation of the thermo-optic coupling effect in mid-infrared second harmonic generation of ZnGeP <sub>2</sub> crystal. Materials Science-Poland, 2015, 33, 391-396.	0.4	0
36	Influence of thermal deformation processes on phase-matching temperature bandwidth in different nonlinear frequency conversion crystals. Proceedings of SPIE, 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Temperature dependence of SHG efficiency by focusing of laser radiation. , 2016, , .		0
38	Damage of an AR-coated LBO crystal by laser pulses of microsecond duration. , 2016, , .		0
39	LuAB crystal for frequency conversion. , 2016, , .		0