

Alexander A Mamrashev

List of Publications by Year in descending order

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papers

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51
all docs

51
docs citations

51
times ranked

161
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties of borate crystals in terahertz region. Optics Communications, 2013, 309, 333-337.	2.1	37
2	Phase-matching in KTP crystal for THz wave generation at room temperature and 81â€K. Infrared Physics and Technology, 2019, 97, 1-5.	2.9	25
3	Terahertz optical properties of potassium titanyl phosphate crystals. Optics Express, 2014, 22, 25436.	3.4	24
4	Optical Properties of KTP Crystals and Their Potential for Terahertz Generation. Crystals, 2018, 8, 310.	2.2	24
5	Detection of Nuclear Spin Isomers of Water Molecules by Terahertz Time-Domain Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 13-18.	3.1	18
6	Observation of a different birefringence order at optical and THz frequencies in LBO crystal. Optical Materials, 2017, 66, 94-97.	3.6	13
7	Small-size terahertz spectrometer using the second harmonic of a femtosecond fiber laser. Optoelectronics, Instrumentation and Data Processing, 2010, 46, 294-300.	0.6	11
8	Correction of Optical Delay Line Errors in Terahertz Time-Domain Spectroscopy. Electronics (Switzerland), 2019, 8, 1408.	3.1	11
9	Terahertz Time-Domain Polarimetry for Principal Optical Axes of Anisotropic Crystals. Photonics, 2021, 8, 213.	2.0	11
10	Phase matching in RT KTP crystal for down-conversion into the THz range. Laser Physics Letters, 2018, 15, 075401.	1.4	10
11	Optical properties of \hat{I}^2 -BBO and potential for THz applications. Journal of Physics: Conference Series, 2018, 951, 012003.	0.4	9
12	Terahertz optical properties of LBO crystal upon cooling to liquid nitrogen temperature. Quantum Electronics, 2018, 48, 19-21.	1.0	9
13	Terahertz Optical Properties of KTiOPO4 Crystal in the Temperature Range of ($\hat{\sim}192$)â€150 Â°C. Crystals, 2021, 11, 125.	2.2	9
14	Broadband metal-grid polarizers on polymeric films for terahertz applications. AIP Conference Proceedings, 2020, , .	0.4	8
15	Characteristics of the system of polarization-optical detection of a pulsed terahertz spectrometer. Optoelectronics, Instrumentation and Data Processing, 2011, 47, 332-337.	0.6	7
16	Specific features of studying anisotropic media by methods of time-domain terahertz spectroscopy. Optoelectronics, Instrumentation and Data Processing, 2016, 52, 374-380.	0.6	7
17	Optical properties of BiB3O6 in the terahertz range. Results in Physics, 2020, 16, 102815.	4.1	7
18	Terahertz radiation influence on number and development dynamics of offspring F1 of fruit fly females under stress. Biophysics (Russian Federation), 2013, 58, 820-826.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Effect of a Magnetic Field on Wideband Terahertz Generation on the Surface of Semiconductors. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 673-679.	3.1	4
20	Optical properties of lead germanate Pb5Ge3O12 in terahertz range. Journal of Physics: Conference Series, 2016, 737, 012022.	0.4	4
21	Fe and 5BDSR based composite fluoropolymer films for THz photonics applications. , 2020, , .		3
22	Variable THz attenuator based on 5BDSR microparticles in synthetic 80W-90 oil. , 2020, , .		3
23	Terahertz microlens array emitter based on the transverse Dember cross effect. Optoelectronics, Instrumentation and Data Processing, 2013, 49, 184-188.	0.6	2
24	Terahertz birefringence of potassium niobate crystals. Results in Physics, 2018, 8, 598-599.	4.1	2
25	Oxide nonlinear crystals: optical properties and phase-matching for terahertz wave generation. EPJ Web of Conferences, 2018, 195, 06012.	0.3	2
26	Terahertz Birefringence and Dichroism of KTA Crystal. Crystals, 2020, 10, 730.	2.2	2
27	Anomalous Ortho-to-Para Ratio of Nuclear Spin Isomers of H2O at Low Temperatures. JETP Letters, 2020, 111, 85-89.	1.4	2
28	Optical Properties and Terahertz Radiation Generation in a Li2B4O7 Crystal. Russian Physics Journal, 2021, 63, 2066-2069.	0.4	2
29	Potential of Sub-THz-Wave Generation in Li2B4O7 Nonlinear Crystal at Room and Cryogenic Temperatures. Crystals, 2021, 11, 1321.	2.2	2
30	Efficiency of Pulsed Terahertz Generation from the Surface of A3B5 Semiconductors. , 2012, , .		1
31	Optical properties of chalcogenide glasses in the terahertz spectral region. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1161-1163.	0.6	1
32	Terahertz Time-Domain Spectrometer with Precision Delay Line Encoder. EPJ Web of Conferences, 2018, 195, 05007.	0.3	1
33	β -BBO: Optical Properties and Phase-Matching for THz Wave Generation. , 2018, , .		1
34	THz Properties of Fe and Ti Oxides Nanoparticles Obtained by Pulsed Laser Ablation. , 2019, , .		1
35	Optical properties of Nd:KGW crystal in the range of 0.2–2.1 THz. Results in Physics, 2020, 16, 102842.	4.1	1
36	Nuclear spin conversion in ${}^2\text{H}{}^2\text{O}$ revisited. Physical Review A, 2021, 104, .	2.5	1

#	ARTICLE	IF	CITATIONS
37	Millimetre-wave range optical properties of BIBO. Journal of Physics: Conference Series, 2021, 2067, 012011.	0.4	1
38	Soft mode behavior in lead germanate studied by terahertz time-domain spectroscopy. , 2015, , .		0
39	Dielectric and Optical Properties of Strontiumâ€“Barium Niobate Films in the Range of 0.2â€“1.3 THz. Optoelectronics, Instrumentation and Data Processing, 2017, 53, 612-616.	0.6	0
40	Temperature dependence of terahertz optical properties of LBO and perspectives of applications in down-converters. Journal of Physics: Conference Series, 2018, 951, 012005.	0.4	0
41	Optical rectification in $\hat{1}^2$ -BBO. , 2018, , .		0
42	High-Performance Metal-Grid Polarizers on Polymeric Films for Broadband Terahertz Spectroscopy. , 2021, , .		0
43	Simultaneous Measurements of Broadband Terahertz Properties of Crystals along Two Axes. , 2021, , .		0
44	Table Top Terahertz Spectrometer based on Fiber Laser. , 2010, , .		0
45	Popular nonlinear optical crystals as down-converters of intense laser radiation and materials for millimeter wave applications. , 2019, , .		0
46	Terahertz optical properties of 1% Nd-doped KGW. , 2020, , .		0
47	The difference in terahertz dielectric properties of DNA solutions in water and ethanol. , 2020, , .		0
48	The dielectric tensor rotation angle and optical properties of a nonlinear crystal of bismuth triborate in the millimeter-wave range. , 2021, , .		0
49	Detailed study on optical properties of Li2B4O7 for down-conversion to millimeter waves. , 2021, , .		0
50	Optical Properties of KGW Crystal and Its Possible Applications in the Terahertz Range. , 2020, , .		0
51	Acceleration of the Conversion of Nuclear Spin Isomers of Water Molecules under Their Vibrational Excitation. JETP Letters, 2021, 114, 643-647.	1.4	0