

Usman K Sapaev

List of Publications by Year in descending order

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30
papers

170
citations

1162367

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31
docs citations

31
times ranked

140
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency Doubling Of Femtosecond Laser Pulses In Nonlinear Photonic Crystals With Account Of High-Order Dispersion. Journal of Russian Laser Research, 2019, 40, 280-287.	0.3	3
2	On the theory of second-harmonic generation in 2D nonlinear photonic crystals with arbitrary domain structures. Physics of Wave Phenomena, 2016, 24, 268-271.	0.3	0
3	Combined action of the bound-electron nonlinearity and the tunnel-ionization current in low-order harmonic generation in noble gases. Optics Express, 2013, 21, 25582.	1.7	9
4	Quasi-phase-matching for third harmonic generation in noble gases employing ultrasound. Optics Express, 2012, 20, 22753.	1.7	8
5	Theory of backward second-harmonic generation of short laser pulses in periodically and aperiodically poled nonlinear crystals. Journal of Russian Laser Research, 2012, 33, 196-210.	0.3	2
6	Efficient pulse compression and frequency conversion of phase-modulated laser pulses in engineered quasi-phase-matching gratings. Physics of Wave Phenomena, 2011, 19, 107-111.	0.3	1
7	Nonlinear pulse compression by the second-harmonic generation in quasiphase and group-velocity matched samples. Journal of Russian Laser Research, 2011, 32, 41.	0.3	1
8	Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures. , 2010, , .		0
9	Nonlinear pulse compression in inhomogeneous photonic crystals upon backward second harmonic generation. Quantum Electronics, 2009, 39, 317-320.	0.3	1
10	Multistep third-harmonic generation of femtosecond laser pulses in periodically-poled and chirped-periodically-poled lithium niobate. Journal of Russian Laser Research, 2009, 30, 321-326.	0.3	3
11	Engineered quasi-phase matching for multiple parametric generation. Optics Express, 2009, 17, 3765.	1.7	12
12	Designer femtosecond pulse shaping using grating-engineered quasi-phase-matching in lithium niobate. Optics Letters, 2008, 33, 378.	1.7	18
13	Efficient high-harmonic generation in engineered quasi-phase matching gratings. Optics Express, 2008, 16, 1.	1.7	26
14	Pulse shaping via Backward Second Harmonic Generation. Optics Express, 2008, 16, 2115.	1.7	16
15	Second-harmonic pulse shaping with engineered quasi-phase-matching gratings in the strongly depleted pump regime. , 2007, , .		0
16	Compensating group-velocity mismatch in parametric frequency generation. Optics Letters, 2007, 32, 2921.	1.7	3
17	Femtosecond pulse synthesis by efficient second-harmonic generation in engineered quasi phase matching gratings. Optics Express, 2007, 15, 7448.	1.7	10
18	Optimum formation of the response of aperiodic nonlinear crystals in the process of second harmonic generation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 102, 939-943.	0.2	3

#	ARTICLE	IF	CITATIONS
19	Nonstationary frequency doubling in periodically-poled nonlinear crystals in the presence of self-action effects. Journal of Russian Laser Research, 2007, 28, 279-287.	0.3	3
20	Methods of enhancement of the efficiency of generation of the second optical harmonic of spatially limited laser beams. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 101, 980-982.	0.2	0
21	Optimization of third harmonic generation for two coupled three-frequency interactions of waves with multiple frequencies in periodic crystals. Optics and Spectroscopy (English Translation of Optika) Tj ETQq1 1 0784314 rgBT /Ov		
22	Optimization of type-II frequency doubling of spatial and temporal limited laser light in nonlinear crystals. Optical and Quantum Electronics, 2005, 37, 515-527.	1.5	4
23	General second-harmonic pulse shaping in grating-engineered quasi-phase-matched nonlinear crystals. Optics Express, 2005, 13, 3264.	1.7	32
24	Title is missing!. Journal of Applied Spectroscopy, 2003, 70, 407-411.	0.3	0
25	Change of optimum conditions of second harmonic generation of spatial limited laser beams in nonlinear crystals. Optical and Quantum Electronics, 2003, 35, 1311-1315.	1.5	1
26	Optimum conditions for the generation of the second harmonic of intense laser radiation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 154-157.	0.2	1
27	Theory of second-harmonic generation for limited laser beams in nonlinear crystals. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, 355-356.	1.4	7
28	Features of nonstationary SHG of phase-modulated laser pulses under self-action conditions. Quantum Electronics, 2003, 33, 168-170.	0.3	3
29	Title is missing!. Optical and Quantum Electronics, 2000, 32, 1289-1294.	1.5	2
30	Scattering matrix element influence on essentially transient amplification of Stokes and anti-Stokes pulses. , 1999, 3733, 50.		0