# Usman K Sapaev

List of Publications by Year
in descending order



| 30 | 170 | 1162367<br>8 | 1125271<br>13 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 31 | 31 | 31 | 140 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | General second-harmonic pulse shaping in grating-engineered quasi-phase-matched nonlinear crystals. Optics Express, 2005, 13, 3264. | 1.7 | 32 |
| 2 | Efficient high-harmonic generation in engineered quasi-phase matching gratings. Optics Express, 2008, 16, 1. | 1.7 | 26 |
| 3 | Designer femtosecond pulse shaping using grating-engineered quasi-phase-matching in lithium niobate. Optics Letters, 2008, 33, 378. | 1.7 | 18 |
| 4 | Pulse shaping via Backward Second Harmonic Generation. Optics Express, 2008, 16, 2115. | 1.7 | 16 |
| 5 | Engineered quasi-phase matching for multiple parametric generation. Optics Express, 2009, 17, 3765. | 1.7 | 12 |
| 6 | Femtosecond pulse synthesis by efficient second-harmonic generation in engineered quasi phase matching gratings. Optics Express, 2007, 15, 7448. | 1.7 | 10 |
| 7 | 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 |
| 8 | Quasi-phase-matching for third harmonic generation in noble gases employing ultrasound. Optics Express, 2012, 20, 22753. | 1.7 | 8 |
| 9 | 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 |
| 10 | 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 |
| 11 | Features of nonstationary SHG of phase-modulated laser pulses under self-action conditions. Quantum Electronics, 2003, 33, 168-170. | 0.3 | 3 |
| 12 | Compensating group-velocity mismatch in parametric frequency generation. Optics Letters, 2007, 32, 2921. | 1.7 | 3 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Title is missing!. Optical and Quantum Electronics, 2000, 32, 1289-1294. | 1.5 | 2 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 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 0.784314 rgBT /Ov | 0.2 | 1 |
| 22 | Nonlinear pulse compression in inhomogeneous photonic crystals upon backward second harmonic generation. Quantum Electronics, 2009, 39, 317-320. | 0.3 | 1 |
| 23 | 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 |
| 24 | 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 |
| 25 | Scattering matrix element influence on essentially transient amplification of Stokes and anti-Stokes pulses. , 1999, 3733, 50. | | 0 |
| 26 | Title is missing!. Journal of Applied Spectroscopy, 2003, 70, 407-411. | 0.3 | 0 |
| 27 | 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 |
| 28 | Second-harmonic pulse shaping with engineered quasi-phase-matching gratings in the strongly depleted pump regime. , 2007, , . | | 0 |
| 29 | Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures. , 2010, , . | | 0 |
| 30 | 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 |