# Tatyana Dolgova

List of Publications by Year
in descending order



| 61 | 1,015 | 566801 15 | 433756 31 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 61 | 61 | 61 | 1256 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ultrafast all-optical tuning of direct-gap semiconductor metasurfaces. Nature Communications, 2017, 8, 17. | 5.8 | 300 |
| 2 | Giant microcavity enhancement of second-harmonic generation in all-silicon photonic crystals. Applied Physics Letters, 2002, 81, 2725-2727. | 1.5 | 67 |
| 3 | Magneto-optical Kerr effect enhancement at the Wood's anomaly in magnetoplasmonic crystals. Journal of Magnetism and Magnetic Materials, 2012, 324, 3516-3518. | 1.0 | 51 |
| 4 | Giant optical second-harmonic generation in single and coupled microcavities formed from one-dimensional photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2129. | 0.9 | 48 |
| 5 | Full PoincarÃ© sphere coverage with plasmonic nanoslit metamaterials at Fano resonance. Physical Review B, 2010, 82, . | 1.1 | 37 |
| 6 | Magnetization-induced second-harmonic generation in magnetophotonic crystals. Physical Review B, 2004, 70, . | 1.1 | 36 |
| 7 | Giant second harmonic generation in microcavities based on porous silicon photonic crystals. JETP Letters, 2001, 73, 6-9. | 0.4 | 35 |
| 8 | Third-harmonic generation in silicon photonic crystals and microcavities. Physical Review B, 2004, 70, . | 1.1 | 33 |
| 9 | Giant third-harmonic in porous silicon photonic crystals and microcavities. JETP Letters, 2002, 75, 15-19. | 0.4 | 32 |
| 10 | Nonlinear magneto-optical Kerr effect in garnet magnetophotonic crystals. Journal of Applied Physics, 2004, 95, 7330-7332. | 1.1 | 25 |
| 11 | Low-Power Absorption Saturation in Semiconductor Metasurfaces. ACS Photonics, 2019, 6, 2797-2806. | 3.2 | 25 |
| 12 | Magnetization-induced second- and third-harmonic generation in magnetophotonic crystals. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 176. | 0.9 | 24 |
| 13 | Ultrafast Polarization Shaping with Fano Plasmonic Crystals. Physical Review Letters, 2012, 108, 253903. | 2.9 | 23 |
| 14 | Enhancement of second-harmonic generation from silicon stripes under external cylindrical strain. Optics Letters, 2009, 34, 3340. | 1.7 | 22 |
| 15 | Ultrafast Magneto-Optics in Nickel Magnetoplasmonic Crystals. Nano Letters, 2020, 20, 8615-8619. | 4.5 | 19 |
| 16 | Enhanced second-harmonic generation in coupled microcavities based on all-silicon photonic crystals. Physical Review B, 2003, 68, . | 1.1 | 18 |
| 17 | Tunable multimodal magnetoplasmonic metasurfaces. Applied Physics Letters, 2019, 115, . | 1.5 | 18 |
| 18 | Plasmonic enhancement of linear birefringence and linear dichroism in anisotropic optical metamaterials. JETP Letters, 2009, 90, 433-437. | 0.4 | 15 |

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|---|---|---|---|
| 19 | Optical third-harmonic generation in one-dimensional photonic crystals and microcavities. Journal of Experimental and Theoretical Physics, 2004, 98, 463-477. | 0.2 | 14 |
| 20 | Oneâ€dimensional magnetophotonic crystals based on doubleâ€layer Biâ€substituted iron garnet films. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 19-23. | 0.5 | 14 |
| 21 | Femtosecond intrapulse evolution of the magneto-optic Kerr effect in magnetoplasmonic crystals. Physical Review B, 2014, 90, . | 1.1 | 14 |
| 22 | Anisotropic Photonic Crystals and Microcavities Based on Mesoporous Silicon. Physics of the Solid State, 2005, 47, 156. | 0.2 | 13 |
| 23 | Magnetoplasmonic crystals based on commercial digital discs. Journal of Applied Physics, 2013, 113, . | 1.1 | 13 |
| 24 | Transverse magneto-optical Kerr effect in 2D goldâ€“garnet nanogratings. Journal of Magnetism and Magnetic Materials, 2015, 383, 110-113. | 1.0 | 13 |
| 25 | Optical second-harmonic interferometric spectroscopy ofSi(111)â^'SiO2interface in the vicinity ofE2critical points. Physical Review B, 2002, 66, . | 1.1 | 12 |
| 26 | Transversal magneto-optical Kerr effect in two-dimensional nickel magnetoplasmonic crystals. Journal of Applied Physics, 2013, 113, . | 1.1 | 11 |
| 27 | Femtosecond relaxation dynamics of surface plasmon-polaritons in the vicinity of fano-type resonance. JETP Letters, 2010, 92, 575-579. | 0.4 | 10 |
| 28 | Second-harmonic interferometric spectroscopy of buried interfaces of column IV semiconductors. Applied Physics B: Lasers and Optics, 2002, 74, 653-659. | 1.1 | 8 |
| 29 | Magnetic field-controlled femtosecond pulse shaping by magnetoplasmonic crystals. Journal of Applied Physics, 2013, 113, 17A947. | 1.1 | 8 |
| 30 | Surface profile-tailored magneto-optics in magnetoplasmonic crystals. APL Photonics, 2022, 7, . | 3.0 | 8 |
| 31 | Femtosecond pulse shaping with plasmonic crystals. JETP Letters, 2015, 101, 787-792. | 0.4 | 7 |
| 32 | Optical second-harmonic phase spectroscopy of the Si(111)â€“SiO2 interface. Thin Solid Films, 2000, 364, 91-94. | 0.8 | 6 |
| 33 | Subnanometer-scale size effects in electronic spectra ofSiâ•SiO2multiple quantum wells: Interferometric second-harmonic generation spectroscopy. Physical Review B, 2006, 73, . | 1.1 | 6 |
| 34 | Femtosecond time-resolved Faraday rotation in thin magnetic films and magnetophotonic crystals. Journal of Applied Physics, 2012, 111, . | 1.1 | 6 |
| 35 | Second-harmonic spectroscopy of electronic structure of Si/SiO2 multiple quantum wells. Applied Physics B: Lasers and Optics, 2002, 74, 671-675. | 1.1 | 5 |
| 36 | Optical third-harmonic generation in coupled microcavities based on porous silicon. JETP Letters, 2004, 80, 633-637. | 0.4 | 5 |

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|---|---|---|---|
| 37 | Second harmonic generation induced by mechanical stresses in silicon. JETP Letters, 2010, 90, 718-722. | 0.4 | 4 |
| 38 | Probe of the vicinal (111) surface by second harmonic phase spectroscopy. Materials Science in Semiconductor Processing, 2001, 4, 51-53. | 1.9 | 2 |
| 39 | Recent Advances in Nanoplasmonics and Magnetoplasmonics. Nanostructure Science and Technology, 2013, , 41-75. | 0.1 | 2 |
| 40 | Localized-to-propagating surface plasmon transitions in gold nanoslit gratings. JETP Letters, 2016, 103, 46-50. | 0.4 | 2 |
| 41 | Magneto-optical response enhancement in 1D and 2D magnetoplasmonic crystals. , 2009, , . | | 1 |
| 42 | Optical properties of one-dimensional subwave plasmonic nanostructures. JETP Letters, 2010, 92, 742-745. | 0.4 | 1 |
| 43 | Polarization-sensitive correlation spectroscopy of Faraday-effect femtosecond dynamics. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 43-48. | 0.1 | 1 |
| 44 | Ultrafast dynamics of Faraday rotation in thin films. , 2015, , . | | 1 |
| 45 | MICROCAVITY ENHANCEMENT OF SECOND-HARMONIC GENERATION AND RAMAN SCATTERING IN PHOTONIC CRYSTALS OF POROUS SILICON. , 2001, , . | | 0 |
| 46 | Split-mode-enhanced second-harmonic generation in porous silicon-coupled microcavities. , 2002, , . | | 0 |
| 47 | Observation of the local field distribution in photonic crystal microcavity by SNOM technique. , 2002, 4808, 180. | | 0 |
| 48 | Observation of the third-harmonic generation in one-dimensional all-silicon microcavities. , 2002, 4808, 67. | | 0 |
| 49 | Second- and third-harmonic generation spectroscopy of coupled microcavities formed from all-silicon photonic crystals. Materials Research Society Symposia Proceedings, 2003, 797, 1. | 0.1 | 0 |
| 50 | <title>Structural and nonlinear-optical studies of ultrathin Si/Si0<formula><inf><roman>2</roman></inf></formula> multiple quantum wells</title>. , 2006, , . | | 0 |
| 51 | Plasmon-induced wavelength-dependent polarization switching in optical metamaterials. Proceedings of SPIE, 2009, , . | 0.8 | 0 |
| 52 | Surface-plasmon relaxation dynamics in planar plasmonic crystals. , 2010, , . | | 0 |
| 53 | Optical chirality in plasmonic arrays of subwavelength Z-shaped apertures. , 2010, , . | | 0 |
| 54 | Femtosecond dynamics of resonantly enhanced surface plasmons in planar plasmonic crystals. , 2010, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | One-dimensional magnetophotonic crystals based on double-layer Bi-substituted iron garnet films. , 2010, , . | | 0 |
| 56 | Femtosecond control of magneto-optical effects in magnetoplasmonic crystals. , 2015, , . | | 0 |
| 57 | Nonlinear anisotropy in silicon nanoparticle oligomers. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 58 | Ultrafast modulation of femtosecond laser pulses in direct-gap semiconductor metasurfaces with magnetic resonances. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 59 | Shaping of Femtosecond Laser Pulses with Plasmonic Crystals. , 2013, , . | | 0 |
| 60 | Time-dependent metasurfaces for efficient all-optical switching at different frequencies. AIP Conference Proceedings, 2020, , . | 0.3 | 0 |
| 61 | Pump-probe spectroscopy in gold-garnet magnetoplasmonic metasurfaces. Journal of Physics: Conference Series, 2021, 2015, 012034. | 0.3 | 0 |