

Tatiana Smirnova

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56
papers

608
citations

13
h-index

23
g-index

70
ext. papers

676
ext. citations

1.7
avg, IF

3.51
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 56 | Surface modified ZrO ₂ and TiO ₂ nanoparticles embedded in organic photopolymers for highly effective and UV-stable volume holograms. <i>Nanotechnology</i> , 2007 , 18, 105704 | 3.4 | 87 |
| 55 | Spatial transfer of matter as a method of holographic recording in photoformers. <i>Optics Communications</i> , 2000 , 174, 391-404 | 2 | 81 |
| 54 | Holographic Composites with Gold Nanoparticles: Nanoparticles Promote Polymer Segregation. <i>Chemistry of Materials</i> , 2008 , 20, 4619-4627 | 9.6 | 55 |
| 53 | Holographic patterning of luminescent photopolymer nanocomposites. <i>Materials Science and Engineering C</i> , 2008 , 28, 28-35 | 8.3 | 40 |
| 52 | Amplified spontaneous emission in polymer-CdSe/ZnS-nanocrystal DFB structures produced by the holographic method. <i>Nanotechnology</i> , 2009 , 20, 245707 | 3.4 | 38 |
| 51 | Effective volume holographic structures based on organic/inorganic photopolymer nanocomposites. <i>Journal of Optics</i> , 2009 , 11, 024013 | | 38 |
| 50 | Nonlinear diffraction in gratings based on polymer-dispersed TiO ₂ nanoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 947-951 | 1.9 | 31 |
| 49 | The fabrication of periodic polymer/silver nanoparticle structures: in situ reduction of silver nanoparticles from precursor spatially distributed in polymer using holographic exposure. <i>Nanotechnology</i> , 2009 , 20, 405301 | 3.4 | 29 |
| 48 | Optical and Nonlinear Properties of Photonic Polymer Nanocomposites and Holographic Gratings Modified with Noble Metal Nanoparticles. <i>Polymers</i> , 2020 , 12, | 4.5 | 20 |
| 47 | Distributed feedback lasing in dye-doped nanocomposite holographic transmission gratings. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 035709 | 1.7 | 18 |
| 46 | Distributed feedback dye laser holographically induced in improved organic/inorganic photocurable nanocomposites. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 907-916 | 1.9 | 17 |
| 45 | Simple and high performance DFB laser based on dye-doped nanocomposite volume gratings. <i>Laser Physics Letters</i> , 2014 , 11, 125804 | 1.5 | 13 |
| 44 | Holographic nanocomposites for recording polymer-nanoparticle periodic structures: I. General approach to choice of components of nanocomposites and their holographic properties. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 110, 129-136 | 0.7 | 13 |
| 43 | Analysis of the diffraction by the gratings generated in the materials with a nonlinear response. <i>Optik</i> , 2008 , 119, 236-246 | 2.5 | 11 |
| 42 | Holographic nanocomposites for recording polymer-nanoparticle periodic structures: II. Mechanism of formation of polymer-nanoparticle bulk periodic structure and effect of parameters of forming field on structure efficiency. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 110, 137-144 | 0.7 | 9 |
| 41 | PPC: self-developing photopolymers for holographic recording 2000 , 4149, 106 | | 9 |
| 40 | Relief structures in the self-developing photopolymer materials. <i>Optik</i> , 2002 , 113, 130-134 | 2.5 | 8 |

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|----|---|-----|---|
| 39 | Efficiency of two-photon absorption in single-frequency and multifrequency laser radiation fields. <i>Soviet Journal of Quantum Electronics</i> , 1977 , 7, 621-623 | | 8 |
| 38 | Polymer distributed feedback dye laser with an external volume Bragg grating inscribed in a nanocomposite by holographic technique. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 202 | 1.7 | 6 |
| 37 | Method of synthesized phase objects for pattern recognition: matched filtering. <i>Optics Express</i> , 2012 , 20, 29854-66 | 3.3 | 6 |
| 36 | Photopolymers for holography: interconnection between holographic characteristics and parameters of physical-chemical processes causing recording 1999 , | | 5 |
| 35 | Optical Nonlinearity And Holographic Recording Of Stable Periodic Structures In Polymeric Photorefractive Media 1989 , | | 5 |
| 34 | Holographic patterning of organic-inorganic photopolymerizable nanocomposites 2009 , | | 4 |
| 33 | Effective Values of Variable Components of the Refractive Index upon Nonlinear Recording of Phase Holograms. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2004 , 96, 952-960 | 0.7 | 4 |
| 32 | Thermodynamical and structural aspects of holographic recording in photopolymers 1998 , | | 4 |
| 31 | Resonant and Sensing Performance of Volume Waveguide Structures Based on Polymer Nanomaterials. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 4 |
| 30 | Binary phase masks on self-developing photopolymers: the technique for formation and testing in an optical correlator. <i>Quantum Electronics</i> , 2003 , 33, 559-562 | 1.8 | 3 |
| 29 | A mechanism of the relief-phase structure formation in self-developing photopolymers. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2002 , 93, 126-131 | 0.7 | 3 |
| 28 | Dispersion cavities with volume holographic gratings. <i>Quantum Electronics</i> , 2001 , 31, 227-230 | 1.8 | 3 |
| 27 | Holographic recording in thick photopolymer films 2000 , 4087, 704 | | 3 |
| 26 | New self-developing photopolymers for holographic recording in the 500-700 nm range. <i>Journal of Applied Spectroscopy</i> , 2000 , 67, 34-39 | 0.7 | 3 |
| 25 | Photoformers: materials for holographic recording 1996 , | | 3 |
| 24 | Light scattering in holograms written on photopolymerizing compositions. <i>Journal of Applied Spectroscopy</i> , 1989 , 51, 728-733 | 0.7 | 3 |
| 23 | Time-Dependent Absorption Spectra of 1D, 2D Plasmonic Structures Obtained by the Ordering of Ag Nanoparticles in Polymer Matrix. <i>Springer Proceedings in Physics</i> , 2016 , 131-141 | 0.2 | 2 |
| 22 | Transient Absorption Spectra of Photopolymeric Films with a Periodic Silver-Nanoparticle Substructure. <i>Journal of Applied Spectroscopy</i> , 2014 , 81, 782-788 | 0.7 | 2 |

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|----|---|-----|---|
| 21 | Analysis of light wave diffraction and amplification by reflection grating operating in the second-order Bragg regime 1 Approximate theory. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 691 | 1.7 | 2 |
| 20 | Analysis of light wave diffraction and amplification by reflection grating operating in the second-order Bragg regime 2 Reflectivity and spectral characteristics of a grating. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 944 | 1.7 | 2 |
| 19 | Temperature stability and radiation resistance of holographic gratings on photopolymer materials. <i>Technical Physics</i> , 1998 , 43, 708-713 | 0.5 | 2 |
| 18 | Poly(ester urethane acrylates) and holographic properties of formulations on their basis. <i>Polymer Science - Series A</i> , 2007 , 49, 921-927 | 1.2 | 2 |
| 17 | Kinetic peculiarities of holographic recording in photopolymers 1998 , 3488, 276 | | 2 |
| 16 | Nonlinear Optical Properties of Polymer Nanocomposites with a Random and Periodic Distribution of Silver Nanoparticles. <i>Springer Proceedings in Physics</i> , 2018 , 333-344 | 0.2 | 1 |
| 15 | Development of the Waveguide Photonic Crystal Structures Formed by Distribution of Nanoparticles in Polymer Matrix. <i>Springer Proceedings in Physics</i> , 2019 , 73-85 | 0.2 | 1 |
| 14 | Diffractive-Optical Elements via All-Optical Patterning of Photopolymers and Nanocomposites. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010 , 23, 757-764 | 0.7 | 1 |
| 13 | Characteristics of photopolymer holographic matched filters in a van der Lugt correlator. <i>Technical Physics</i> , 2001 , 46, 322-325 | 0.5 | 1 |
| 12 | Characteristics of fourier phase holograms recorded on photopolymers. <i>Technical Physics</i> , 2000 , 45, 743-746 | 0.5 | 1 |
| 11 | Influence of spatial coherence of a laser field on the efficiency of two-photon absorption. <i>Soviet Journal of Quantum Electronics</i> , 1976 , 6, 23-26 | | 1 |
| 10 | Diffraction of a finite-cross-section light beam by the grating: Theoretical analysis and experimental verification. <i>Optik</i> , 2022 , 252, 168550 | 2.5 | 1 |
| 9 | Two-Dimensional Periodic Structures Recorded in Nanocomposites by Holographic Method: Features of Formation, Applications. <i>Springer Proceedings in Physics</i> , 2017 , 293-304 | 0.2 | 1 |
| 8 | Features of the dynamic self-action of light beams during holographic recording in photopolymers. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2002 , 93, 620-625 | 0.7 | |
| 7 | The effect of nonlinearity of the recording media response on the properties of thick phase holograms. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2003 , 95, 478-485 | 0.7 | |
| 6 | Dispersive resonators with volume holographic gratings. <i>Technical Physics Letters</i> , 2001 , 27, 102-103 | 0.7 | |
| 5 | Active media for near-infrared polymethine dye lasers. <i>Soviet Journal of Quantum Electronics</i> , 1979 , 9, 725-728 | | |
| 4 |  <i>Ukrainian Journal of Physics</i> , 2018 , 63, 888 | 0.4 | |

- 3 Based on Nanocomposite Resonant Photonic Crystal Structures for Sensing Applications. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2020**, 219-228 0.2
- 2 Solvent Effect on the Preparation of Silver Nanoparticles in a Photopolymerizable Matrix. *Theoretical and Experimental Chemistry*, **2016**, 52, 291-297 1.3
- 1 Spectral and Angular Characteristics of the High-Contrast Dielectric Grating under the Resonant Interaction of a Plane Wave and a Gaussian Beam. *Materials*, **2022**, 15, 3529 3.5