

Todor Kirilov Kalkandjiev

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

797
citations

430874

18
h-index

501196

28
g-index

44
all docs

44
docs citations

44
times ranked

475
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Conical refraction Nd:KGd(WO ₄) ₂ laser. Optics Express, 2010, 18, 2753. | 3.4 | 86 |
| 2 | Laser operation of the new stoichiometric crystal KYb(WO ₄) ₂ . Applied Physics B: Lasers and Optics, 2002, 74, 185-189. | 2.2 | 67 |
| 3 | Conical refraction: fundamentals and applications. Laser and Photonics Reviews, 2016, 10, 750-771. | 8.7 | 64 |
| 4 | Blue-detuned optical ring trap for Bose-Einstein condensates based on conical refraction. Optics Express, 2015, 23, 1638. | 3.4 | 54 |
| 5 | Free-space optical polarization demultiplexing and multiplexing by means of conical refraction. Optics Letters, 2012, 37, 4197. | 3.3 | 48 |
| 6 | Wave-vector and polarization dependence of conical refraction. Optics Express, 2013, 21, 4503. | 3.4 | 45 |
| 7 | Conical Refraction: New observations and a dual cone model. Optics Express, 2013, 21, 11125. | 3.4 | 44 |
| 8 | Conical refraction: an experimental introduction. Proceedings of SPIE, 2008, , . | 0.8 | 41 |
| 9 | Super-Gaussian conical refraction beam. Optics Letters, 2014, 39, 4349. | 3.3 | 35 |
| 10 | Multiple rings formation in cascaded conical refraction. Optics Letters, 2013, 38, 1455. | 3.3 | 34 |
| 11 | Polarization tailored novel vector beams based on conical refraction. Optics Express, 2015, 23, 5704. | 3.4 | 34 |
| 12 | Generating a three-dimensional dark focus from a single conically refracted light beam. Optics Letters, 2013, 38, 4648. | 3.3 | 32 |
| 13 | Laser with simultaneous Gaussian and conical refraction outputs. Applied Physics B: Lasers and Optics, 2010, 99, 619-622. | 2.2 | 26 |
| 14 | Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636. | 3.4 | 22 |
| 15 | Deconvolution versus Derivative Spectroscopy. Applied Spectroscopy, 1989, 43, 44-48. | 2.2 | 21 |
| 16 | Determination of Fluorescence Quantum Yields Using a Spontaneous Raman Scattering Line of the Solvent as Internal Standard. Spectroscopy Letters, 1982, 15, 355-365. | 1.0 | 19 |
| 17 | On the dual-cone nature of the conical refraction phenomenon. Optics Letters, 2015, 40, 1639. | 3.3 | 19 |
| 18 | Concentration-dependence studies of Raman spectra of water by the method of self-deconvolution. Chemical Physics Letters, 1983, 103, 83-88. | 2.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Deconvolution Technique Application to Spectral Contour Analysis. Spectroscopy Letters, 1983, 16, 753-763. | 1.0 | 9 |
| 20 | Type I and type II second harmonic generation of conically refracted beams. Optics Letters, 2013, 38, 2484. | 3.3 | 9 |
| 21 | Second-harmonic conical refraction: observation of free and forced harmonic waves. Applied Physics B: Lasers and Optics, 2011, 103, 9-12. | 2.2 | 8 |
| 22 | On the frequency-doubled conically-refracted Gaussian beam. Optics Express, 2014, 22, 21347. | 3.4 | 8 |
| 23 | Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080. | 3.4 | 8 |
| 24 | Light propagation in biaxial crystals. Journal of Optics (United Kingdom), 2015, 17, 065603. | 2.2 | 7 |
| 25 | Azimuthally and radially polarized light in conical diffraction. Optics Letters, 2014, 39, 1988. | 3.3 | 6 |
| 26 | Wavelength dependence of the orientation of optic axes in KGW. Applied Physics B: Lasers and Optics, 2014, 116, 831-836. | 2.2 | 5 |
| 27 | A new approach to the analysis of the effect of dissolved salts on the raman spectrum of water. Journal of Molecular Structure, 1984, 115, 409-412. | 3.6 | 4 |
| 28 | Conical refraction healing after partially blocking the input beam. Physical Review A, 2015, 92, . | 2.5 | 4 |
| 29 | Influence of the shape of the exciting laser pulse on fluorescence saturation in the quantitative analysis of dissolved trace organic substances. Journal of Luminescence, 1982, 27, 89-99. | 3.1 | 2 |
| 30 | Fermionic transformation rules for spatially filtered light beams in conical refraction. , 2011, , . | | 2 |
| 31 | Continuous wave lasing of Yb ³⁺ in a stoichiometric double tungstate. , 2003, , . | | 1 |
| 32 | Conical refraction: Beam evolution. , 2011, , . | | 1 |
| 33 | Optic axis dispersion in double tungstate crystals and laser operation at 2 $\hat{1}$ / ₄ m. Proceedings of SPIE, 2014, , . | 0.8 | 1 |
| 34 | Quantitative analysis of phytoplankton monocultures in vivo by laser excited fluorescence. Journal of Luminescence, 1981, 26, 151-157. | 3.1 | 0 |
| 35 | Computerized laser Raman spectrometer. Journal of Molecular Structure, 1984, 115, 281-284. | 3.6 | 0 |
| 36 | Cone-refracting solid-state bulk laser. , 2009, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Gaussian to Lorentzian Beam Profile Convertor Based on Conical Refraction. , 2010, , . | | 0 |
| 38 | Conical refraction multiplexing for free-space optical communications. , 2012, , . | | 0 |
| 39 | Wavelength dependence of the optical axis in double tungstate crystals. , 2013, , . | | 0 |
| 40 | Conical refraction: A dual-cone model. , 2013, , . | | 0 |
| 41 | Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 42 | Conical refraction to increase channel capacity in free-space optical communications. , 2016, , . | | 0 |
| 43 | Solid-State Conical Refraction Laser. , 2009, , . | | 0 |