

Todor Kirilov Kalkandjiev

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

797
citations

430874

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501196

28
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44
all docs

44
docs citations

44
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Conical refraction: fundamentals and applications. Laser and Photonics Reviews, 2016, 10, 750-771.	8.7	64
2	Conical refraction to increase channel capacity in free-space optical communications. , 2016, , .		0
3	Conical refraction healing after partially blocking the input beam. Physical Review A, 2015, 92, .	2.5	4
4	Light propagation in biaxial crystals. Journal of Optics (United Kingdom), 2015, 17, 065603.	2.2	7
5	Blue-detuned optical ring trap for Bose-Einstein condensates based on conical refraction. Optics Express, 2015, 23, 1638.	3.4	54
6	Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636.	3.4	22
7	Polarization tailored novel vector beams based on conical refraction. Optics Express, 2015, 23, 5704.	3.4	34
8	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080.	3.4	8
9	On the dual-cone nature of the conical refraction phenomenon. Optics Letters, 2015, 40, 1639.	3.3	19
10	Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , .	0.8	0
11	On the frequency-doubled conically-refracted Gaussian beam. Optics Express, 2014, 22, 21347.	3.4	8
12	Optic axis dispersion in double tungstate crystals and laser operation at $2\frac{1}{4}\mu\text{m}$. Proceedings of SPIE, 2014, , .	0.8	1
13	Wavelength dependence of the orientation of optic axes in KGW. Applied Physics B: Lasers and Optics, 2014, 116, 831-836.	2.2	5
14	Azimuthally and radially polarized light in conical diffraction. Optics Letters, 2014, 39, 1988.	3.3	6
15	Super-Gaussian conical refraction beam. Optics Letters, 2014, 39, 4349.	3.3	35
16	Wavelength dependence of the optical axis in double tungstate crystals. , 2013, , .		0
17	Conical Refraction: New observations and a dual cone model. Optics Express, 2013, 21, 11125.	3.4	44
18	Wave-vector and polarization dependence of conical refraction. Optics Express, 2013, 21, 4503.	3.4	45

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19	Multiple rings formation in cascaded conical refraction. Optics Letters, 2013, 38, 1455.	3.3	34
20	Generating a three-dimensional dark focus from a single conically refracted light beam. Optics Letters, 2013, 38, 4648.	3.3	32
21	Type I and type II second harmonic generation of conically refracted beams. Optics Letters, 2013, 38, 2484.	3.3	9
22	Conical refraction: A dual-cone model. , 2013, , .		0
23	Conical refraction multiplexing for free-space optical communications. , 2012, , .		0
24	Free-space optical polarization demultiplexing and multiplexing by means of conical refraction. Optics Letters, 2012, 37, 4197.	3.3	48
25	Conical refraction: Beam evolution. , 2011, , .		1
26	Second-harmonic conical refraction: observation of free and forced harmonic waves. Applied Physics B: Lasers and Optics, 2011, 103, 9-12.	2.2	8
27	Fermionic transformation rules for spatially filtered light beams in conical refraction. , 2011, , .		2
28	Gaussian to Lorentzian Beam Profile Convertor Based on Conical Refraction. , 2010, , .		0
29	Laser with simultaneous Gaussian and conical refraction outputs. Applied Physics B: Lasers and Optics, 2010, 99, 619-622.	2.2	26
30	Conical refraction Nd:KGd(WO ₄) ₂ laser. Optics Express, 2010, 18, 2753.	3.4	86
31	Cone-refracting solid-state bulk laser. , 2009, , .		0
32	Solid-State Conical Refraction Laser. , 2009, , .		0
33	Conical refraction: an experimental introduction. Proceedings of SPIE, 2008, , .	0.8	41
34	Continuous wave lasing of Yb ³⁺ in a stoichiometric double tungstate. , 2003, , .		1
35	Laser operation of the new stoichiometric crystal KYb(WO ₄) ₂ . Applied Physics B: Lasers and Optics, 2002, 74, 185-189.	2.2	67
36	Deconvolution versus Derivative Spectroscopy. Applied Spectroscopy, 1989, 43, 44-48.	2.2	21

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37	Computerized laser Raman spectrometer. Journal of Molecular Structure, 1984, 115, 281-284.	3.6	0
38	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
39	Concentration-dependence studies of Raman spectra of water by the method of self-deconvolution. Chemical Physics Letters, 1983, 103, 83-88.	2.6	12
40	Deconvolution Technique Application to Spectral Contour Analysis. Spectroscopy Letters, 1983, 16, 753-763.	1.0	9
41	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
42	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
43	Quantitative analysis of phytoplankton monocultures in vivo by laser excited fluorescence. Journal of Luminescence, 1981, 26, 151-157.	3.1	0