

Alejandro Turpin

List of Publications by Year in descending order

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papers

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all docs

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44
times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	Light scattering control in transmission and reflection with neural networks. Optics Express, 2018, 26, 30911.	3.4	85
2	Optical vault: A reconfigurable bottle beam based on conical refraction of light. Optics Express, 2013, 21, 26335.	3.4	76
3	Extreme ultraviolet vector beams driven by infrared lasers. Optica, 2017, 4, 520.	9.3	76
4	Conical refraction: fundamentals and applications. Laser and Photonics Reviews, 2016, 10, 750-771.	8.7	64
5	Extreme Ultraviolet Fractional Orbital Angular Momentum Beams from High Harmonic Generation. Scientific Reports, 2017, 7, 43888.	3.3	55
6	Blue-detuned optical ring trap for Bose-Einstein condensates based on conical refraction. Optics Express, 2015, 23, 1638.	3.4	54
7	Conical refraction as a tool for polarization metrology. Optics Letters, 2013, 38, 4100.	3.3	53
8	Free-space optical polarization demultiplexing and multiplexing by means of conical refraction. Optics Letters, 2012, 37, 4197.	3.3	48
9	Wave-vector and polarization dependence of conical refraction. Optics Express, 2013, 21, 4503.	3.4	45
10	Super-Gaussian conical refraction beam. Optics Letters, 2014, 39, 4349.	3.3	35
11	Multiple rings formation in cascaded conical refraction. Optics Letters, 2013, 38, 1455.	3.3	34
12	Polarization tailored novel vector beams based on conical refraction. Optics Express, 2015, 23, 5704.	3.4	34
13	Generating a three-dimensional dark focus from a single conically refracted light beam. Optics Letters, 2013, 38, 4648.	3.3	32
14	Spatial images from temporal data. Optica, 2020, 7, 900.	9.3	23
15	Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636.	3.4	22
16	On the dual-cone nature of the conical refraction phenomenon. Optics Letters, 2015, 40, 1639.	3.3	19
17	3D Imaging from Multipath Temporal Echoes. Physical Review Letters, 2021, 126, 174301.	7.8	18
18	High-speed object detection with a single-photon time-of-flight image sensor. Optics Express, 2021, 29, 33184.	3.4	18

#	ARTICLE	IF	CITATIONS
19	Laser beams with conical refraction patterns. Proceedings of SPIE, 2014, , .	0.8	13
20	Type I and type II second harmonic generation of conically refracted beams. Optics Letters, 2013, 38, 2484.	3.3	9
21	Complete snapshot Stokes polarimeter based on a single biaxial crystal. Optics Letters, 2016, 41, 4566.	3.3	9
22	Generation of reconfigurable optical traps for microparticles spatial manipulation through dynamic split lens inspired light structures. Scientific Reports, 2018, 8, 11263.	3.3	9
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	Microparticle Manipulation and Imaging through a Self-Calibrated Liquid Crystal on Silicon Display. Applied Sciences (Switzerland), 2018, 8, 2310.	2.5	6
26	Transformation of vector beams with radial and azimuthal polarizations in biaxial crystals. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1012.	1.5	5
27	Detection, identification, and tracking of objects hidden from view with neural networks. , 2019, , .		5
28	Conical refraction healing after partially blocking the input beam. Physical Review A, 2015, 92, .	2.5	4
29	Conical refraction mode of an optical resonator. Optics Letters, 2020, 45, 1317.	3.3	3
30	Dynamic microparticle manipulation through light structures generated by a self-calibrated Liquid Crystal on Silicon display. , 2018, , .		2
31	Imaging from temporal data via spiking convolutional neural networks. , 2020, , .		2
32	Statistical dependencies beyond linear correlations in light scattered by disordered media. Physical Review Research, 2022, 4, .	3.6	1
33	Conical refraction multiplexing for free-space optical communications. , 2012, , .		0
34	Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , .	0.8	0
35	Single biaxial crystal based polarimeters. , 2016, , .		0
36	Conical refraction to increase channel capacity in free-space optical communications. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Snapshot Stokes polarimeters based on a single biaxial crystal. , 2017, , .		0
38	Tunable orbital angular momentum beams in the extreme ultraviolet/soft x-ray regimes. Proceedings of SPIE, 2017, , .	0.8	0
39	EUV light beams with fractional orbital angular momentum driven by high-order harmonic generation and conical refraction. , 2017, , .		0
40	Generation of extreme ultraviolet vector beams from infrared laser pulses. , 2017, , .		0
41	Inferring spatial scenes from their time-resolved multipath echoes. , 2021, , .		0
42	Projecting light through complex media with machine learning. , 2019, , .		0
43	Obtaining Images by Measuring Time. Optics and Photonics News, 2020, 31, 50.	0.5	0
44	Multipath temporal echoes for reconstructing spatial scenes. , 2021, , .		0