Alejandro Turpin

List of Publications by Year
in descending order

44 papers	874 citations	516710 16 h-index	477307 29 g-index
44 all docs	44 docs citations	44 times ranked	714 citing authors

#	Article	IF	Citations
1	Statistical dependencies beyond linear correlations in light scattered by disordered media. Physical Review Research, 2022, 4, .	3.6	1
2	3D Imaging from Multipath Temporal Echoes. Physical Review Letters, 2021, 126, 174301.	7.8	18
3	Inferring spatial scenes from their time-resolved multipath echoes. , 2021, , .		0
4	High-speed object detection with a single-photon time-of-flight image sensor. Optics Express, 2021, 29, 33184.	3.4	18
5	Multipath temporal echoes for reconstructing spatial scenes. , 2021, , .		0
6	Spatial images from temporal data. Optica, 2020, 7, 900.	9.3	23
7	Obtaining Images by Measuring Time. Optics and Photonics News, 2020, 31, 50.	0.5	0
8	Conical refraction mode of an optical resonator. Optics Letters, 2020, 45, 1317.	3.3	3
9	Imaging from temporal data via spiking convolutional neural networks. , 2020, , .		2
10	Projecting light through complex media with machine learning. , 2019, , .		0
11	Detection, identification, and tracking of objects hidden from view with neural networks. , 2019, , .		5
12	Microparticle Manipulation and Imaging through a Self-Calibrated Liquid Crystal on Silicon Display. Applied Sciences (Switzerland), 2018, 8, 2310.	2.5	6
13	Generation of reconfigurable optical traps for microparticles spatial manipulation through dynamic split lens inspired light structures. Scientific Reports, 2018, 8, 11263.	3.3	9
14	Dynamic microparticle manipulation through light structures generated by a self-calibrated Liquid Crystal on Silicon display. , 2018, , .		2
15	Light scattering control in transmission and reflection with neural networks. Optics Express, 2018, 26, 30911.	3.4	85
16	Extreme Ultraviolet Fractional Orbital Angular Momentum Beams from High Harmonic Generation. Scientific Reports, 2017, 7, 43888.	3.3	55
17	Snapshot Stokes polarimeters based on a single biaxial crystal. , 2017, , .		0
18	Tunable orbital angular momentum beams in the extreme ultraviolet/soft x-ray regimes. Proceedings of SPIE, 2017, , .	0.8	0

#	Article	IF	Citations
19	EUV light beams with fractional orbital angular momentum driven by high-order harmonic generation and conical refraction. , 2017, , .		0
20	Extreme ultraviolet vector beams driven by infrared lasers. Optica, 2017, 4, 520.	9.3	76
21	Generation of extreme ultraviolet vector beams from infrared laser pulses. , 2017, , .		0
22	Complete snapshot Stokes polarimeter based on a single biaxial crystal. Optics Letters, 2016, 41, 4566.	3.3	9
23	Conical refraction: fundamentals and applications. Laser and Photonics Reviews, 2016, 10, 750-771.	8.7	64
24	Single biaxial crystal based polarimeters. , 2016, , .		0
25	Conical refraction to increase channel capacity in free-space optical communications. , 2016, , .		0
26	Conical refraction healing after partially blocking the input beam. Physical Review A, 2015, 92, .	2.5	4
27	Light propagation in biaxial crystals. Journal of Optics (United Kingdom), 2015, 17, 065603.	2.2	7
28	Blue-detuned optical ring trap for Bose-Einstein condensates based on conical refraction. Optics Express, 2015, 23, 1638.	3.4	54
29	Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636.	3.4	22
30	Polarization tailored novel vector beams based on conical refraction. Optics Express, 2015, 23, 5704.	3.4	34
31	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080.	3.4	8
32	On the dual-cone nature of the conical refraction phenomenon. Optics Letters, 2015, 40, 1639.	3.3	19
33	Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , .	0.8	0
34	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
35	Laser beams with conical refraction patterns. Proceedings of SPIE, 2014, , .	0.8	13
36	Super-Gaussian conical refraction beam. Optics Letters, 2014, 39, 4349.	3.3	35

#	Article	IF	Citations
37	Wave-vector and polarization dependence of conical refraction. Optics Express, 2013, 21, 4503.	3.4	45
38	Optical vault: A reconfigurable bottle beam based on conical refraction of light. Optics Express, 2013, 21, 26335.	3.4	76
39	Multiple rings formation in cascaded conical refraction. Optics Letters, 2013, 38, 1455.	3.3	34
40	Generating a three-dimensional dark focus from a single conically refracted light beam. Optics Letters, 2013, 38, 4648.	3.3	32
41	Type I and type II second harmonic generation of conically refracted beams. Optics Letters, 2013, 38, 2484.	3.3	9
42	Conical refraction as a tool for polarization metrology. Optics Letters, 2013, 38, 4100.	3.3	53
43	Conical refraction multiplexing for free-space optical communications. , 2012, , .		0
44	Free-space optical polarization demultiplexing and multiplexing by means of conical refraction. Optics Letters, 2012, 37, 4197.	3.3	48