Ahmed H Dorrah

List of Publications by Year
in descending order

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35 papers	839 citations	623734 14 h-index	713466 21 g-index
38 all docs	38 docs citations	38 times ranked	467 citing authors

#	Article	IF	Citations
1	Roadmap on multimode light shaping. Journal of Optics (United Kingdom), 2022, 24, 013001.	2.2	41
2	Introducing Berry phase gradients along the optical path via propagation-dependent polarization transformations. Nanophotonics, 2022, 11, 713-725.	6.0	14
3	Tunable structured light with flat optics. Science, 2022, 376, eabi6860.	12.6	147
4	Metasurface optics for on-demand polarization transformations along the optical path. Nature Photonics, 2021, 15, 287-296.	31.4	212
5	Engineering phase and polarization singularity sheets. Nature Communications, 2021, 12, 4190.	12.8	28
6	Jones matrix holography with metasurfaces. Science Advances, 2021, 7, .	10.3	67
7	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. Nature Communications, 2021, 12, 6249.	12.8	59
8	Generalized polarization transformations with metasurfaces. Optics Express, 2021, 29, 39065.	3.4	8
9	Designing the phase and amplitude of scalar optical fields in three dimensions. Optics Express, 2020, 28, 24721.	3.4	12
10	Total Angular Momentum Management of Three Dimensional Vortices with a Single Plate. , 2020, , .		0
11	Longitudinally Variable Polarization Optics. , 2020, , .		0
12	Engineering the Wavelength and Topological Charge of Non-Diffracting Beams Along Their Axis of Propagation. , 2019, , .		1
13	Wavelength and topological charge management along the axis of propagation of multichromatic non-diffracting beams. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1867.	2.1	9
14	Evolution and Conservation of Orbital Angular Momentum in Three-Dimensional Structured Light. , 2019, , .		0
15	Arbitrary Control of Polarization and Intensity Profiles of Diffraction-Attenuation-Resistant Beams along the Propagation Direction. Physical Review Applied, 2018, 9, .	3.8	18
16	Evolution of orbital angular momentum in three-dimensional structured light. Physical Review A, 2018, 98, .	2.5	25
17	Experimental demonstration of tunable refractometer based on orbital angular momentum of longitudinally structured light. Light: Science and Applications, 2018, 7, 40.	16.6	54
18	Wide-Range Tunable Refractometer Based on Orbital Angular Momentum of Light. , 2018, , .		0

#	Article	IF	Citations
19	Arbitrary control of the polarization state and intensity of non-diffracting beams along their propagation direction. , 2018, , .		0
20	Frozen Waves following arbitrary spiral and snake-like trajectories in air. Applied Physics Letters, 2017, 110, .	3.3	16
21	Structuring light under different polarization states within micrometer domains: exact analysis from the Maxwell equations. Optics Express, 2017, 25, 10051.	3.4	27
22	Longitudinal Shaping of Subwavelength Infrared Beams using Plasmonic Bullâ€™s-eye Structure with Concentric Slits. , 2017, , .		0
23	Experimental demonstration of attenuation resistant frozen waves. , 2016, , .		3
24	Generating attenuation-resistant frozen waves in absorbing fluid. Optics Letters, 2016, 41, 3702.	3.3	32
25	Nonanalytic pulse discontinuities as carriers of information. Physical Review A, 2016, 93, .	2.5	2
26	Controlling the topological charge of twisted light beams with propagation. Physical Review A, 2016, 93, .	2.5	44
27	Experimental Demonstration of Attenuation-resistant Higher Order Frozen Waves. , 2016, , .		1
28	Longitudinal patterning of twisted light beams. , 2016, , .		0
29	Self-healing optical beams with snake-like and spiral paths in free space. , 2016, , .		0
30	Experimental generation of attenuation-resistant Frozen Waves inside an absorbing medium. , 2016, , .		0
31	Time-frequency dynamics of superluminal pulse transition to the subluminal regime. Physical Review E, 2015, 91, 033206.	2.1	6
32	Can superluminal propagation in a noisy dispersive medium reduce signal detection latency?. , 2014, , .		0
33	Dynamical evolution of information and energy in causal dispersive media. , 2014, , .		0
34	Velocity of detectable information in faster-than-light pulses. Physical Review A, 2014, 90, .	2.5	7
35	Superluminal propagation and information transfer: A statistical approach in the microwave domain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3218-3224.	2.1	6