

# Ahmed H Dorrah

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Metasurface optics for on-demand polarization transformations along the optical path. Nature Photonics, 2021, 15, 287-296.	31.4	212
2	Tunable structured light with flat optics. Science, 2022, 376, eabi6860.	12.6	147
3	Jones matrix holography with metasurfaces. Science Advances, 2021, 7, .	10.3	67
4	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. Nature Communications, 2021, 12, 6249.	12.8	59
5	Experimental demonstration of tunable refractometer based on orbital angular momentum of longitudinally structured light. Light: Science and Applications, 2018, 7, 40.	16.6	54
6	Controlling the topological charge of twisted light beams with propagation. Physical Review A, 2016, 93, .	2.5	44
7	Roadmap on multimode light shaping. Journal of Optics (United Kingdom), 2022, 24, 013001.	2.2	41
8	Generating attenuation-resistant frozen waves in absorbing fluid. Optics Letters, 2016, 41, 3702.	3.3	32
9	Engineering phase and polarization singularity sheets. Nature Communications, 2021, 12, 4190.	12.8	28
10	Structuring light under different polarization states within micrometer domains: exact analysis from the Maxwell equations. Optics Express, 2017, 25, 10051.	3.4	27
11	Evolution of orbital angular momentum in three-dimensional structured light. Physical Review A, 2018, 98, .	2.5	25
12	Arbitrary Control of Polarization and Intensity Profiles of Diffraction-Attenuation-Resistant Beams along the Propagation Direction. Physical Review Applied, 2018, 9, .	3.8	18
13	Frozen Waves following arbitrary spiral and snake-like trajectories in air. Applied Physics Letters, 2017, 110, .	3.3	16
14	Introducing Berry phase gradients along the optical path via propagation-dependent polarization transformations. Nanophotonics, 2022, 11, 713-725.	6.0	14
15	Designing the phase and amplitude of scalar optical fields in three dimensions. Optics Express, 2020, 28, 24721.	3.4	12
16	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
17	Generalized polarization transformations with metasurfaces. Optics Express, 2021, 29, 39065.	3.4	8
18	Velocity of detectable information in faster-than-light pulses. Physical Review A, 2014, 90, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	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
20	Time-frequency dynamics of superluminal pulse transition to the subluminal regime. Physical Review E, 2015, 91, 033206.	2.1	6
21	Experimental demonstration of attenuation resistant frozen waves. , 2016, , .		3
22	Nonanalytic pulse discontinuities as carriers of information. Physical Review A, 2016, 93, .	2.5	2
23	Experimental Demonstration of Attenuation-resistant Higher Order Frozen Waves. , 2016, , .		1
24	Engineering the Wavelength and Topological Charge of Non-Diffracting Beams Along Their Axis of Propagation. , 2019, , .		1
25	Can superluminal propagation in a noisy dispersive medium reduce signal detection latency?. , 2014, , .		0
26	Dynamical evolution of information and energy in causal dispersive media. , 2014, , .		0
27	Longitudinal patterning of twisted light beams. , 2016, , .		0
28	Self-healing optical beams with snake-like and spiral paths in free space. , 2016, , .		0
29	Experimental generation of attenuation-resistant Frozen Waves inside an absorbing medium. , 2016, , .		0
30	Longitudinal Shaping of Subwavelength Infrared Beams using Plasmonic Bull's-eye Structure with Concentric Slits. , 2017, , .		0
31	Wide-Range Tunable Refractometer Based on Orbital Angular Momentum of Light. , 2018, , .		0
32	Arbitrary control of the polarization state and intensity of non-diffracting beams along their propagation direction. , 2018, , .		0
33	Evolution and Conservation of Orbital Angular Momentum in Three-Dimensional Structured Light. , 2019, , .		0
34	Total Angular Momentum Management of Three Dimensional Vortices with a Single Plate. , 2020, , .		0
35	Longitudinally Variable Polarization Optics. , 2020, , .		0