

Andrea Aiello

List of Publications by Year in descending order

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93
papers

4,894
citations

126907

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93
docs citations

93
times ranked

3007
citing authors

#	ARTICLE	IF	CITATIONS
1	A non-separability measure for spatially disjoint vectorial fields. <i>New Journal of Physics</i> , 2022, 24, 063032.	2.9	5
2	Microsphere kinematics from the polarization of tightly focused nonseparable light. <i>Optics Express</i> , 2021, 29, 12429.	3.4	4
3	Renormalized Mutual Information for Artificial Scientific Discovery. <i>Physical Review Letters</i> , 2021, 126, 200601.	7.8	4
4	Perturbation theory of nearly spherical dielectric optical resonators. <i>Physical Review A</i> , 2021, 104, .	2.5	3
5	Field theory of monochromatic optical beams: II. Classical and quantum paraxial fields. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 014002.	2.2	2
6	Field theory of monochromatic optical beams: I. Classical fields. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 014001.	2.2	4
7	Observation of concentrating paraxial beams. <i>OSA Continuum</i> , 2020, 3, 2387.	1.8	4
8	Perturbation theory of optical resonances of deformed dielectric spheres. <i>Physical Review A</i> , 2019, 100, .	2.5	5
9	Classically Entangled Light. <i>Progress in Optics</i> , 2019, 64, 99-153.	0.6	52
10	Unraveling beam self-healing. <i>Optics Express</i> , 2017, 25, 19147.	3.4	34
11	Demonstration of local teleportation using classical entanglement. , 2017, , .		0
12	Quantum Uncertainty in the Beam Width for Optical Spatial Modes. , 2016, , .		0
13	Demonstration of local teleportation using classical entanglement. <i>Laser and Photonics Reviews</i> , 2016, 10, 317-321.	8.7	53
14	The ubiquitous photonic wheel. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 085605.	2.2	35
15	Spontaneous generation of singularities in paraxial optical fields. <i>Optics Letters</i> , 2016, 41, 1668.	3.3	4
16	Experimental generation of amplitude squeezed vector beams. <i>Optics Express</i> , 2016, 24, 12385.	3.4	11
17	Single-mode squeezing in arbitrary spatial modes. <i>Optics Express</i> , 2016, 24, 7633.	3.4	10
18	Detecting the spatial quantum uncertainty of bosonic systems. <i>New Journal of Physics</i> , 2016, 18, 093004.	2.9	3

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19	Quantum uncertainty in the beam width of spatial optical modes. <i>Optics Express</i> , 2015, 23, 32777.	3.4	6
20	Optimal Frames for Polarization State Reconstruction. <i>Physical Review Letters</i> , 2015, 115, 263901.	7.8	67
21	Classically entangled optical beams for high-speed kinematic sensing. <i>Optica</i> , 2015, 2, 864.	9.3	131
22	Note on the helicity decomposition of spin and orbital optical currents. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025603.	2.2	21
23	Goos-Hänchen and Imbert-Fedorov shifts for astigmatic Gaussian beams. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025603.	2.2	15
24	Measuring the Transverse Spin Density of Light. <i>Physical Review Letters</i> , 2015, 114, 063901.	7.8	204
25	Goos-Hänchen and Imbert-Fedorov shifts for paraxial X-waves. <i>Optics Letters</i> , 2015, 40, 558.	3.3	18
26	Cylindrically polarized Bessel-Gauss beams. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025603.	2.2	16
27	Quantum-like nonseparable structures in optical beams. <i>New Journal of Physics</i> , 2015, 17, 043024.	2.9	156
28	From transverse angular momentum to photonic wheels. <i>Nature Photonics</i> , 2015, 9, 789-795.	31.4	448
29	Surface angular momentum of light beams. <i>Optics Express</i> , 2014, 22, 6586.	3.4	15
30	Geometric spin Hall effect of light in tightly focused polarization-tailored light beams. <i>Physical Review A</i> , 2014, 89, .	2.5	47
31	Classical entanglement in polarization metrology. <i>New Journal of Physics</i> , 2014, 16, 073019.	2.9	167
32	Wave-optics description of self-healing mechanism in Bessel beams. <i>Optics Letters</i> , 2014, 39, 6819.	3.3	45
33	Analytical Approximations of Whispering Gallery Modes in Anisotropic Ellipsoidal Resonators. <i>Research Letters in Physics</i> , 2014, 2014, 1-10.	0.2	3
34	Interaction of Relativistic Electron-Vortex Beams with Few-Cycle Laser Pulses. <i>Physical Review Letters</i> , 2014, 112, 134801.	7.8	51
35	Observation of the Geometric Spin Hall Effect of Light. <i>Physical Review Letters</i> , 2014, 112, 113902.	7.8	58
36	The Hertz vector revisited: a simple physical picture. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 105705.	2.2	10

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37	Near field of an oscillating electric dipole and cross-polarization of a collimated beam of light: Two sides of the same coin. American Journal of Physics, 2014, 82, 860-868.	0.7	6
38	Generalized Bessel beams with two indices. Optics Letters, 2014, 39, 5618.	3.3	23
39	Goos-Hänchen and Imbert-Fedorov shifts from a quantum-mechanical perspective. New Journal of Physics, 2013, 15, 113059.	2.9	66
40	Total internal reflection of orbital angular momentum beams. Journal of Optics (United Kingdom), 2013, 15, 014012.	2.2	10
41	Goos-Hänchen and Imbert-Fedorov shifts for bounded wavepackets of light. Journal of Optics (United Kingdom), 2013, 15, 014004.	2.2	41
42	Radially and azimuthally polarized nonparaxial Bessel beams made simple. Optics Express, 2013, 21, 15530.	3.4	27
43	A versatile source of single photons for quantum information processing. Nature Communications, 2013, 4, 1818.	12.8	181
44	The polarization properties of a tilted polarizer. Optics Express, 2013, 21, 27032.	3.4	21
45	Classical optics representation of the quantum mechanical translation operator via ABCD matrices. Journal of Optics (United Kingdom), 2013, 15, 075715.	2.2	0
46	Identical classical particles: Half fermions and half bosons. Physical Review A, 2013, 88, .	2.5	7
47	Demonstration of a State of Light with Purely Transverse Angular Momentum. , 2013, , .		0
48	Demonstration of a State of Light with Purely Transverse Angular Momentum. , 2013, , .		0
49	All photons are equal but some photons are more equal than others. New Journal of Physics, 2012, 14, 093051.	2.9	6
50	Role of spatial coherence in Goos-Hänchen and Imbert-Fedorov shifts: reply to comment. Optics Letters, 2012, 37, 1057.	3.3	6
51	Radial mode dependence of optical beam shifts. Optics Letters, 2012, 37, 1044.	3.3	16
52	Spatial Coherence and Optical Beam Shifts. Physical Review Letters, 2012, 109, 213901.	7.8	24
53	Observation of Orbital Angular Momentum Sidebands due to Optical Reflection. Physical Review Letters, 2012, 109, 113602.	7.8	38
54	Visualizing the quantum interaction picture in phase space. European Journal of Physics, 2012, 33, 1367-1381.	0.6	2

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55	Dipole pulse theory: Maximizing the field amplitude from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \tilde{\Gamma} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ focused laser pulses. Physical Review A, 2012, 86, .	2.5	77
56	Goos-Hänchen and Imbert-Fedorov shifts: a novel perspective. New Journal of Physics, 2012, 14, 013058.	2.9	109
57	Direct Measurement of the Geometric Spin Hall Effect of Light. , 2012, , .		0
58	Cluster State Generation with Quadrature Squeezed Cylindrically Polarized Modes. , 2012, , .		1
59	Theory of anisotropic whispering-gallery-mode resonators. Physical Review A, 2011, 84, .	2.5	15
60	Classical and quantum properties of cylindrically polarized states of light. Optics Express, 2011, 19, 9714.	3.4	169
61	Quadrant detector calibration for vortex beams. Optics Letters, 2011, 36, 409.	3.3	31
62	Goos-Hänchen and Imbert-Fedorov shifts of a nondiffracting Bessel beam. Optics Letters, 2011, 36, 543.	3.3	58
63	Role of spatial coherence in Goos-Hänchen and Imbert-Fedorov shifts. Optics Letters, 2011, 36, 3151.	3.3	23
64	Spin Hall effect of light in metallic reflection. Optics Letters, 2011, 36, 3200.	3.3	85
65	Geometric Spin Hall Effect of Light at polarizing interfaces. Applied Physics B: Lasers and Optics, 2011, 102, 427-432.	2.2	18
66	Quantum Light from a Whispering-Gallery-Mode Disk Resonator. Physical Review Letters, 2011, 106, 113901.	7.8	132
67	Optical properties of a tilted polarizer and geometric Spin Hall Effect of Light. , 2011, , .		0
68	Angular momenta and spin-orbit interaction of nonparaxial light in free space. Physical Review A, 2010, 82, .	2.5	232
69	Transverse angular momentum of photons. Physical Review A, 2010, 81, .	2.5	25
70	Low-Threshold Optical Parametric Oscillations in a Whispering Gallery Mode Resonator. Physical Review Letters, 2010, 105, 263904.	7.8	149
71	Demonstration of a quasi-scalar angular Goos-Hänchen effect. Optics Letters, 2010, 35, 3562.	3.3	33
72	Observing angular deviations in the specular reflection of a light beam. Nature Photonics, 2009, 3, 337-340.	31.4	195

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73	Brewster cross polarization. Optics Letters, 2009, 34, 1207.	3.3	51
74	Nonparaxial polarizers. Optics Letters, 2009, 34, 3160.	3.3	16
75	Goos-Hänchen shift for a rough metallic mirror. Optics Express, 2009, 17, 10864.	3.4	13
76	Transverse Angular Momentum and Geometric Spin Hall Effect of Light. Physical Review Letters, 2009, 103, 100401.	7.8	214
77	Shannon Dimensionality of Quantum Channels and Its Application to Photon Entanglement. Physical Review Letters, 2008, 101, 120502.	7.8	72
78	Role of beam propagation in Goos-Hänchen and Imbert-Fedorov shifts. Optics Letters, 2008, 33, 1437.	3.3	299
79	Loss-induced transition of the Goos-Hänchen effect for metals and dielectrics. Optics Express, 2008, 16, 3961.	3.4	28
80	Observation of Goos-Hänchen shifts in metallic reflection. Optics Express, 2007, 15, 15928.	3.4	214
81	Maximum-likelihood estimation of Mueller matrices. Optics Letters, 2006, 31, 817.	3.3	44
82	Tunable spatial decoherers for polarization-entangled photons. Optics Letters, 2006, 31, 2057.	3.3	19
83	Experimental Demonstration of Fractional Orbital Angular Momentum Entanglement of Two Photons. Physical Review Letters, 2005, 95, 240501.	7.8	199
84	Role of spatial coherence in polarization tomography. Optics Letters, 2005, 30, 1599.	3.3	13
85	Experimental observation of universality in depolarized light scattering. Optics Letters, 2005, 30, 3216.	3.3	28
86	How to Observe High-Dimensional Two-Photon Entanglement with Only Two Detectors. Physical Review Letters, 2004, 92, 217901.	7.8	92
87	Chaotic ray dynamics in an optical cavity with a beam splitter. Optics Letters, 2004, 29, 929.	3.3	3
88	Input-output relations in optical cavities: A simple point of view. Physical Review A, 2000, 62, .	2.5	12
89	Parametric fluorescence and second-harmonic generation in a planar Fabry-Perot microcavity. Physical Review A, 1998, 58, 2446-2459.	2.5	10
90	Polarization temporal dynamics in a dye microlaser. Optics Letters, 1996, 21, 149.	3.3	8

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91	Microcavity transverse coherence length and microlaser threshold. Optics Letters, 1995, 20, 1492.	3.3	10
92	Picosecond pulse generation in the thresholdless optical microlaser. Applied Physics Letters, 1994, 65, 1891-1893.	3.3	10
93	One more time on the helicity decomposition of spin and orbital optical currents. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	2