

# Robert W Boyd

## List of Publications by Year in descending order

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337  
papers

19,467  
citations

12330

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12946

131  
g-index

342  
all docs

342  
docs citations

342  
times ranked

11520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice-plasmon-induced asymmetric transmission in two-dimensional chiral arrays. APL Photonics, 2022, 7, .	5.7	4
2	Designing high-performance propagation-compressing spaceplates using thin-film multilayer stacks. Optics Express, 2022, 30, 2197.	3.4	9
3	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link Using Pilot-Assisted Optoelectronic Beam Mixing. Journal of Lightwave Technology, 2022, 40, 588-596.	4.6	14
4	A Comprehensive Multipolar Theory for Periodic Metasurfaces. Advanced Optical Materials, 2022, 10, .	7.3	18
5	Fourier-Engineered Plasmonic Lattice Resonances. ACS Nano, 2022, 16, 5696-5703.	14.6	11
6	Observation of an extremely large nonlinear response in crystalline quartz in THz regime. , 2022, , .		0
7	Cross-polarized surface lattice resonances in a rectangular lattice plasmonic metasurface. Optics Letters, 2022, 47, 2105.	3.3	3
8	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. Physical Review Letters, 2022, 128, .	7.8	11
9	To what extent can space be compressed? Bandwidth limits of spaceplates. Optica, 2022, 9, 738.	9.3	11
10	Enhanced Nonlinear Optical Responses of Layered Epsilon-near-Zero Metamaterials at Visible Frequencies. ACS Photonics, 2021, 8, 125-129.	6.6	51
11	Superscattering, Superabsorption, and Nonreciprocity in Nonlinear Antennas. ACS Photonics, 2021, 8, 585-591.	6.6	17
12	Photon Acceleration Using a Time-Varying Epsilon-near-Zero Metasurface. ACS Photonics, 2021, 8, 716-720.	6.6	24
13	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	12.8	212
14	Confocal super-resolution microscopy based on a spatial mode sorter. Optics Express, 2021, 29, 11784.	3.4	13
15	High-fidelity spatial mode transmission through a 1-km-long multimode fiber via vectorial time reversal. Nature Communications, 2021, 12, 1866.	12.8	27
16	Perspectives on advances in high-capacity, free-space communications using multiplexing of orbital-angular-momentum beams. APL Photonics, 2021, 6, .	5.7	53
17	Kelvin's chirality of optical beams. Physical Review A, 2021, 103, .	2.5	15
18	Multiprobe Time Reversal for High-Fidelity Vortex-Mode-Division Multiplexing Over a Turbulent Free-Space Link. Physical Review Applied, 2021, 15, .	3.8	13

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19	Compensation-free high-dimensional free-space optical communication using turbulence-resilient vector beams. Nature Communications, 2021, 12, 1666.	12.8	86
20	Reply to “Physical limitations on broadband invisibility based on fast-light media”™. Nature Communications, 2021, 12, 2800.	12.8	3
21	Giant Third-Order Nonlinear Response of Liquids at Terahertz Frequencies. Physical Review Applied, 2021, 15, .	3.8	26
22	Terahertz Nonlinear Spectroscopy of Water Vapor. ACS Photonics, 2021, 8, 1683-1688.	6.6	17
23	Selective excitation of subwavelength atomic clouds. Physical Review Research, 2021, 3, .	3.6	0
24	Dependence of the coupling properties between a plasmonic antenna array and a sub-wavelength epsilon-near-zero film on structural and material parameters. Applied Physics Letters, 2021, 118, .	3.3	13
25	An optic to replace space and its application towards ultra-thin imaging systems. Nature Communications, 2021, 12, 3512.	12.8	52
26	Tunable Doppler shift using a time-varying epsilon-near-zero thin film near 1550nm. Optics Letters, 2021, 46, 3444.	3.3	6
27	Experimental demonstration of superresolution of partially coherent light sources using parity sorting. Optics Express, 2021, 29, 22034.	3.4	27
28	Adiabatic Frequency Conversion Using a Time-Varying Epsilon-Near-Zero Metasurface. Nano Letters, 2021, 21, 5907-5913.	9.1	30
29	Direct Tomography of High-Dimensional Density Matrices for General Quantum States of Photons. Physical Review Letters, 2021, 127, 040402.	7.8	12
30	Compressive ultrafast pulse measurement via time-domain single-pixel imaging. Optica, 2021, 8, 1176.	9.3	10
31	Colossal enhancement of the magnetic dipole moment by exploiting lattice coupling in metasurfaces. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C217.	2.1	2
32	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using automatic optoelectronic mixing of many modes. Nature Photonics, 2021, 15, 743-750.	31.4	45
33	Demonstration of Wavelength Conversion by FWM Near 1550-nm in a Sub-Wavelength Antenna-ENZ Metasurface. , 2021, , .		0
34	Ultra-High-Q ( $\sim 2400$ ) Lattice Resonances in Plasmonic Metasurface for Flat Optics. , 2021, , .		0
35	Experimental demonstration of superresolution of partially coherent light sources using parity sorting: erratum. Optics Express, 2021, 29, 35579.	3.4	0
36	Plasmonic Metasurfaces with Ultra-High-Q ( $\sim 2400$ ) Lattice Resonances for Sensing, LiDAR Nanolasing and Imaging. , 2021, , .		0

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37	Broadband bandpass THz filters with stacked metasurfaces. , 2021, , .		0
38	Giant Asymmetric Second-Harmonic Generation in Bianisotropic Metasurfaces Based on Bound States in the Continuum. ACS Photonics, 2021, 8, 3234-3240.	6.6	18
39	Multimode Surface Lattice Resonance Hybridization. , 2021, , .		0
40	Experimental Demonstration of Polarization Entanglement from a Spatiotemporally Incoherent Source. , 2021, , .		0
41	Manipulation of Ultrafast Pulses Using Epsilon-Near-Zero Based Plasmonic Nonlinear Metasurface. , 2021, , .		0
42	Metformin Abrogates Age-Associated Ovarian Fibrosis. Clinical Cancer Research, 2020, 26, 632-642.	7.0	51
43	Non-local Field Effects in Nonlinear Plasmonic Metasurfaces. , 2020, , .		1
44	Ultrafast Topological Engineering in Metamaterials. Physical Review Letters, 2020, 125, 037403.	7.8	16
45	Fundamental Radiative Processes in Near-Zero-Index Media of Various Dimensionalities. ACS Photonics, 2020, 7, 1965-1970.	6.6	32
46	Arbitrarily high time bandwidth performance in a nonreciprocal optical resonator with broken time invariance. Scientific Reports, 2020, 10, 15752.	3.3	6
47	Using an Acousto-Optic Modulator as a Fast Spatial Light Modulator. , 2020, , .		1
48	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
49	Dynamic spatiotemporal beams that combine two independent and controllable orbital-angular-momenta using multiple optical-frequency-comb lines. Nature Communications, 2020, 11, 4099.	12.8	25
50	Polarization Entanglement from an Incoherent Pump. , 2020, , .		0
51	High-dimensional quantum key distribution based on mutually partially unbiased bases. Physical Review A, 2020, 101, .	2.5	15
52	Broadband frequency translation through time refraction in an epsilon-near-zero material. Nature Communications, 2020, 11, 2180.	12.8	121
53	Properties of bright squeezed vacuum at increasing brightness. Physical Review Research, 2020, 2, .	3.6	32
54	Kerker effect, superscattering, and scattering dark states in atomic antennas. Physical Review Research, 2020, 2, .	3.6	12

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55	Plasmonic Nanoantenna-Enhanced Adiabatic Wavelength Conversion using a Time-varying Epsilon-near-zero-based Metasurface. , 2020, , .		2
56	Theory of four-wave mixing of cylindrical vector beams in optical fibers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1670.	2.1	10
57	Vectorial Phase Conjugation for High-Fidelity Mode Transmission Through Multimode Fiber. , 2020, , .		3
58	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		1
59	Propagation of broadband THz pulses: effects of dispersion, diffraction and time-varying nonlinear refraction. Optics Express, 2020, 28, 3237.	3.4	9
60	Minimalist Mie coefficient model. Optics Express, 2020, 28, 16511.	3.4	14
61	Performance of real-time adaptive optics compensation in a turbulent channel with high-dimensional spatial-mode encoding. Optics Express, 2020, 28, 15376.	3.4	21
62	Ultrafast modulation of the spectral filtering properties of a THz metasurface. Optics Express, 2020, 28, 20296.	3.4	17
63	Fast generation and detection of spatial modes of light using an acousto-optic modulator. Optics Express, 2020, 28, 29112.	3.4	14
64	Simultaneous turbulence mitigation and channel demultiplexing for two 100â€‰Gbit/s orbital-angular-momentum multiplexed beams by adaptive wavefront shaping and diffusing. Optics Letters, 2020, 45, 702.	3.3	6
65	Fundamental quantum limits in ellipsometry. Optics Letters, 2020, 45, 4607.	3.3	9
66	Utilizing adaptive optics to mitigate intra-modal-group power coupling of graded-index few-mode fiber in a 200-Gbit/s mode-division-multiplexed link. Optics Letters, 2020, 45, 3577.	3.3	10
67	Dynamic coherent perfect absorption in nonlinear metasurfaces. Optics Letters, 2020, 45, 6414.	3.3	18
68	Experimental mitigation of the effects of the limited size aperture or misalignment by singular-value-decomposition-based beam orthogonalization in a free-space optical link using Laguerreâ€“Gaussian modes. Optics Letters, 2020, 45, 6310.	3.3	11
69	Dynamically controlling local field enhancement at an epsilon-near-zero/dielectric interface via nonlinearities of an epsilon-near-zero medium. Nanophotonics, 2020, 9, 4831-4837.	6.0	10
70	Theoretical and numerical study of the time-bandwidth product in resonant cavities with nonreciprocal coupling. , 2020, , .		0
71	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		2
72	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.3	0

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73	Nonlinear plasmonic metasurfaces using multiresonant surface lattice resonances. , 2020, , .		1
74	Nonlinear Optics: feature issue introduction. Optical Materials Express, 2020, 10, 774.	3.0	0
75	Nonlinear Optics: feature issue introduction. Optics Express, 2020, 28, 5883.	3.4	0
76	Towards polarization-based excitation tailoring for extended Raman spectroscopy. Optics Express, 2020, 28, 10239.	3.4	5
77	Nonlinear Response of ENZ Plasmon Modes near 1550 nm. , 2020, , .		0
78	Realization of the Einstein-Podolsky-Rosen Paradox Using Radial Position and Radial Momentum Variables. Physical Review Letters, 2019, 123, 060403.	7.8	30
79	Weak superradiance in arrays of plasmonic nanoantennas. Physical Review A, 2019, 100, .	2.5	6
80	Ultrabroadband 3D invisibility with fast-light cloaks. Nature Communications, 2019, 10, 4859.	12.8	30
81	Efficient Nonlinear Metasurfaces using Multiresonant High-Q Plasmonic Arrays. , 2019, , .		1
82	Optical Delay Beyond the Time-Bandwidth Limit: From Pipe Dream to Reality. , 2019, , .		0
83	Quantum imaging and information. Reports on Progress in Physics, 2019, 82, 124401.	20.1	48
84	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	9.1	63
85	Performance analysis of $d$ -dimensional quantum cryptography under state-dependent diffraction. Physical Review A, 2019, 100, .	2.5	9
86	Quantum Nonlocal Aberration Cancellation. Physical Review Letters, 2019, 123, 143603.	7.8	15
87	Single-Shot Direct Tomography of the Complete Transverse Amplitude, Phase, and Polarization Structure of a Light Field. Physical Review Applied, 2019, 12, .	3.8	11
88	Nonlinear optical effects in epsilon-near-zero media. Nature Reviews Materials, 2019, 4, 535-551.	48.7	345
89	Spatial sampling of terahertz fields with sub-wavelength accuracy via probe-beam encoding. Light: Science and Applications, 2019, 8, 55.	16.6	51
90	Vectorizing the spatial structure of high-harmonic radiation from gas. Nature Communications, 2019, 10, 2020.	12.8	16

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91	A primary radiation standard based on quantum nonlinear optics. Nature Physics, 2019, 15, 529-532.	16.7	14
92	Measurement of the Photon-Plasmon Coupling Phase Shift. Physical Review Letters, 2019, 122, 133601.	7.8	10
93	Switchable detector array scheme to reduce the effect of single-photon detector's™s deadtime in a multi-bit/photon quantum link. Optics Communications, 2019, 441, 132-137.	2.1	0
94	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
95	Towards Efficient Nonlinear Plasmonic Metasurfaces. , 2019, , .		0
96	Generating a Twisted Spatiotemporal Wave Packet Using Coherent Superposition of Structured Beams with Different Frequencies. , 2019, , .		1
97	High-Q resonance train in a plasmonic metasurface. , 2019, , .		1
98	Efficient nonlinear metasurfaces by using multiresonant high-Q plasmonic arrays. Journal of the Optical Society of America B: Optical Physics, 2019, 36, E30.	2.1	39
99	Suppression of self-focusing for few-cycle pulses. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G68.	2.1	11
100	Using all transverse degrees of freedom in quantum communications based on a generic mode sorter. Optics Express, 2019, 27, 10383.	3.4	33
101	Influence of pump coherence on the generation of position-momentum entanglement in optical parametric down-conversion. Optics Express, 2019, 27, 20745.	3.4	26
102	Characterization of an underwater channel for quantum communications in the Ottawa River. Optics Express, 2019, 27, 26346.	3.4	36
103	Quantum-limited estimation of the axial separation of two incoherent point sources. Optica, 2019, 6, 534.	9.3	64
104	Nonlinear optics with full three-dimensional illumination. Optica, 2019, 6, 878.	9.3	6
105	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 8326701.	5.7	21
106	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 1-10.	5.7	1
107	Light, the universe and everything “ 12 Herculean tasks for quantum cowboys and black diamond skiers. Journal of Modern Optics, 2018, 65, 1261-1308.	1.3	6
108	Large optical nonlinearity of nanoantennas coupled to an epsilon-near-zero material. Nature Photonics, 2018, 12, 79-83.	31.4	276

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109	â€Twistedâ€™ electrons. Contemporary Physics, 2018, 59, 126-144.	1.8	40
110	Label-Free Super-Resolution Microscopy with Coherent Nonlinear Structured-Illumination. , 2018, , .		0
111	Experimental Estimate of the Nonlinear Refractive Index of Crystalline ZnSe in the Terahertz Spectral Range. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 1547-1549.	0.6	9
112	Overcoming the time-bandwidth limit. , 2018, , .		0
113	Quantum cryptography with twisted photons through an outdoor underwater channel. Optics Express, 2018, 26, 22563.	3.4	77
114	Using surface lattice resonances to engineer nonlinear optical processes in metal nanoparticle arrays. Physical Review A, 2018, 97, .	2.5	41
115	Bright squeezed vacuum in a nonlinear interferometer: Frequency and temporal Schmidt-mode description. Physical Review A, 2018, 97, .	2.5	24
116	Reconstructing the topology of optical polarization knots. Nature Physics, 2018, 14, 1079-1082.	16.7	126
117	Twisting neutrons may reveal their internal structure. Nature Physics, 2018, 14, 1-2.	16.7	30
118	Influence of pump coherence on the quantum properties of spontaneous parametric down-conversion. Physica Scripta, 2018, 93, 084001.	2.5	18
119	Limits of Applicability of the Concept of Critical Power for the Self-Focusing of Light. , 2018, , .		0
120	Automated classification of multiphoton microscopy images of ovarian tissue using deep learning. Journal of Biomedical Optics, 2018, 23, 1.	2.6	41
121	Realization of a scalable Laguerreâ€™Gaussian mode sorter based on a robust radial mode sorter. Optics Express, 2018, 26, 33057.	3.4	38
122	Hermiteâ€™Gaussian mode sorter. Optics Letters, 2018, 43, 5263.	3.3	33
123	Demonstration of ultra-high time-bandwidth product in a non-reciprocal fiber-optic system. , 2018, , .		0
124	High-dimensional quantum cloning and applications to quantum hacking. Science Advances, 2017, 3, e1601915.	10.3	82
125	Weak Value Amplification Can Outperform Conventional Measurement in the Presence of Detector Saturation. Physical Review Letters, 2017, 118, 070802.	7.8	76
126	Controlling the orbital angular momentum of high harmonic vortices. Nature Communications, 2017, 8, 14970.	12.8	124



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127	Breaking Lorentz reciprocity to overcome the time-bandwidth limit in physics and engineering. Science, 2017, 356, 1260-1264.	12.6	174
128	Measuring the orbital angular momentum spectrum of an electron beam. Nature Communications, 2017, 8, 15536.	12.8	71
129	Distributed angular double-slit interference with pseudo-thermal light. Applied Physics Letters, 2017, 110, 071107.	3.3	6
130	Free-space propagation of high-dimensional structured optical fields in an urban environment. Science Advances, 2017, 3, e1700552.	10.3	147
131	Observation of nanoscale magnetic fields using twisted electron beams. Nature Communications, 2017, 8, 689.	12.8	47
132	Ultraslow waves on the nanoscale. Science, 2017, 358, .	12.6	107
133	Single-shot measurement of the orbital-angular-momentum spectrum of light. Nature Communications, 2017, 8, 1054.	12.8	53
134	Digital spiral object identification using random light. Light: Science and Applications, 2017, 6, e17013-e17013.	16.6	47
135	Custom-tailored spatial mode sorting by controlled random scattering. Physical Review B, 2017, 95, .	3.2	39
136	Phase sensitivity of gain-unbalanced nonlinear interferometers. Physical Review A, 2017, 96, .	2.5	28
137	Generation of Caustics and Rogue Waves from Nonlinear Instability. Physical Review Letters, 2017, 119, 203901.	7.8	45
138	Plasmonic nanoantennas with liquid crystals for nanocrystal fluorescence enhancement and polarization selectivity of classical and quantum light sources. Molecular Crystals and Liquid Crystals, 2017, 657, 173-183.	0.9	6
139	Sorting Photons by Radial Quantum Number. Physical Review Letters, 2017, 119, 263602.	7.8	97
140	Phase retrieval of an electron vortex beam using diffraction holography. Applied Physics Letters, 2017, 111, .	3.3	8
141	Broadband slow light in genetically optimized coupled-cavity waveguides with GBP exceeding 0.45. , 2017, , .		0
142	Spatially multiplexed orbital-angular-momentum-encoded single photon and classical channels in a free-space optical communication link. Optics Letters, 2017, 42, 4881.	3.3	22
143	High-dimensional intracity quantum cryptography with structured photons. Optica, 2017, 4, 1006.	9.3	330
144	Beyond the perturbative description of the nonlinear optical response of low-index materials. Optics Letters, 2017, 42, 3225.	3.3	71

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145	Direct measurement of an one-million-dimensional photonic state. , 2016, , .		0
146	Super-critical phasematching for photon pair generation in structured light modes. Optics Express, 2016, 24, 24495.	3.4	3
147	Ultra-strong polarization dependence of surface lattice resonances with out-of-plane plasmon oscillations. Optics Express, 2016, 24, 28279.	3.4	47
148	Quantum probabilities from quantum entanglement: experimentally unpacking the Born rule. New Journal of Physics, 2016, 18, 053013.	2.9	10
149	Polarization Shaping for Control of Nonlinear Propagation. Physical Review Letters, 2016, 117, 233903.	7.8	87
150	Exotic looped trajectories of photons in three-slit interference. Nature Communications, 2016, 7, 13987.	12.8	52
151	Chiral optical response of planar and symmetric nanotrimers enabled by heteromaterial selection. Nature Communications, 2016, 7, 13117.	12.8	68
152	Structured-illumination microscopy with nonlinear optical processes. , 2016, , .		0
153	Large optical nonlinearity of indium tin oxide in its epsilon-near-zero region. Science, 2016, 352, 795-797.	12.6	796
154	Nonlinear refractive index for crystals in terahertz spectral range. , 2016, , .		0
155	Nondestructive Measurement of Orbital Angular Momentum for an Electron Beam. Physical Review Letters, 2016, 117, 154801.	7.8	24
156	Tighter spots of light with superposed orbital-angular-momentum beams. Physical Review A, 2016, 94, .	2.5	18
157	Arbitrary optical wavefront shaping via spin-to-orbit coupling. Journal of Optics (United Kingdom), 2016, 18, 124002.	2.2	44
158	Weak-value amplification of the fast-light effect in rubidium vapor. Physical Review A, 2016, 93, .	2.5	7
159	Optical response of dipole antennas on an epsilon-near-zero substrate. Physical Review A, 2016, 93, .	2.5	63
160	Wigner Distribution of Twisted Photons. Physical Review Letters, 2016, 116, 130402.	7.8	28
161	Light-Drag Enhancement by a Highly Dispersive Rubidium Vapor. Physical Review Letters, 2016, 116, 013601.	7.8	41
162	Engineering the Frequency Spectrum of Bright Squeezed Vacuum via Group Velocity Dispersion in an SU(1,1) Interferometer. Physical Review Letters, 2016, 117, 183601.	7.8	40

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163	Hanbury Brown and Twiss interferometry with twisted light. Science Advances, 2016, 2, e1501143.	10.3	40
164	The duality principle in the presence of postselection. Scientific Reports, 2016, 6, 19944.	3.3	3
165	Generation and application of besell beams in electron microscopy. Ultramicroscopy, 2016, 166, 48-60.	1.9	39
166	Non-local angular double-slit ghost diffraction with thermal light. , 2016, , .		0
167	Real-time imaging of spin-to-orbital angular momentum hybrid remote state preparation. Physical Review A, 2015, 92, .	2.5	37
168	Recovering full coherence in a qubit by measuring half of its environment. Physical Review A, 2015, 92, .	2.5	3
169	State transfer based on classical nonseparability. Physical Review A, 2015, 92, .	2.5	57
170	Observation of quantum recoherence of photons by spatial propagation. Scientific Reports, 2015, 5, 15330.	3.3	9
171	Holographic Generation of Highly Twisted Electron Beams. Microscopy and Microanalysis, 2015, 21, 675-676.	0.4	0
172	Strong, spectrally-tunable chirality in diffractive metasurfaces. Scientific Reports, 2015, 5, 13034.	3.3	78
173	Electron holograms encoding amplitude and phase for the generation of arbitrary wavefunctions. Microscopy and Microanalysis, 2015, 21, 503-504.	0.4	5
174	Holograms for the Generation of Vortex States with L=500h Fabricated by Electron Beam Lithography. Microscopy and Microanalysis, 2015, 21, 667-668.	0.4	5
175	Q-plates as higher order polarization controllers for orbital angular momentum modes of fiber. Optics Letters, 2015, 40, 1729.	3.3	59
176	Nonlinear refractive index for crystals at terahertz frequencies (Invited Paper). , 2015, , .		0
177	Classical entanglement?. Science, 2015, 350, 1172-1173.	12.6	90
178	Experimental demonstration of 20â€™â€™Gbit/s data encoding and 2â€™â€™ns channel hopping using orbital angular momentum modes. Optics Letters, 2015, 40, 5810.	3.3	59
179	Quantifying the impact of proximity error correction on plasmonic metasurfaces [Invited]. Optical Materials Express, 2015, 5, 2798.	3.0	14
180	Observation of optical polarization MÃ¶bius strips. Science, 2015, 347, 964-966.	12.6	322

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181	Holographic Generation of Highly Twisted Electron Beams. Physical Review Letters, 2015, 114, 034801.	7.8	78
182	Imaging with a small number of photons. Nature Communications, 2015, 6, 5913.	12.8	327
183	High-dimensional quantum cryptography with twisted light. New Journal of Physics, 2015, 17, 033033.	2.9	475
184	Structured quantum waves. Nature Physics, 2015, 11, 629-634.	16.7	117
185	Divergence of an orbital-angular-momentum-carrying beam upon propagation. New Journal of Physics, 2015, 17, 023011.	2.9	215
186	Quantum walks and wavepacket dynamics on a lattice with twisted photons. Science Advances, 2015, 1, e1500087.	10.3	148
187	Neutrons with a twist. Nature, 2015, 525, 462-463.	27.8	4
188	Prediction of an extremely large nonlinear refractive index for crystals at terahertz frequencies. Physical Review A, 2015, 92, .	2.5	52
189	Super-critical phase-matching in nonlinear optics. , 2015, , .		0
190	Slowly but surely. Nature Physics, 2015, 11, 15-16.	16.7	4
191	Reply to Comment on "Evidence of slow-light effects from rotary drag of structured beams". New Journal of Physics, 2014, 16, 038002.	2.9	2
192	Adaptive-optics-based simultaneous pre- and post-turbulence compensation of multiple orbital-angular-momentum beams in a bidirectional free-space optical link. Optica, 2014, 1, 376.	9.3	177
193	Radial quantum number of Laguerre-Gauss modes. Physical Review A, 2014, 89, .	2.5	84
194	Experimental generation of an optical field with arbitrary spatial coherence properties. Journal of the Optical Society of America B: Optical Physics, 2014, 31, A51.	2.1	42
195	Hardy's paradox tested in the spin-orbit Hilbert space of single photons. Physical Review A, 2014, 89, .	2.5	24
196	Highly efficient electron vortex beams generated by nanofabricated phase holograms. Applied Physics Letters, 2014, 104, .	3.3	111
197	Free-space communication through turbulence: a comparison of plane-wave and orbital-angular-momentum encodings. Journal of Modern Optics, 2014, 61, 43-48.	1.3	16
198	The third-order nonlinear optical susceptibility of gold. Optics Communications, 2014, 326, 74-79.	2.1	194

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199	Exploring the quantum nature of the radial degree of freedom of a photon via Hong-Ou-Mandel interference. <i>Physical Review A</i> , 2014, 89, .	2.5	85
200	Direct measurement of a 27-dimensional orbital-angular-momentum state vector. <i>Nature Communications</i> , 2014, 5, 3115.	12.8	187
201	Generation of a spin-polarized electron beam by multipole magnetic fields. <i>Ultramicroscopy</i> , 2014, 138, 22-27.	1.9	13
202	Self-phase-modulation of surface plasmon polaritons. <i>Physical Review A</i> , 2014, 89, .	2.5	28
203	Simulating Quantum-Mechanical Barrier Tunneling Phenomena with a Nematic-Liquid-Crystal-Filled Double-Prism Structure. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 595, 136-143.	0.9	6
204	Generation of Nondiffracting Electron Bessel Beams. <i>Physical Review X</i> , 2014, 4, .	8.9	71
205	Experimental demonstration of Klyshko's advanced-wave picture using a coincidence-count based, camera-enabled imaging system. <i>Journal of Modern Optics</i> , 2014, 61, 547-551.	1.3	21
206	Compressive Direct Measurement of the Quantum Wave Function. <i>Physical Review Letters</i> , 2014, 113, 090402.	7.8	84
207	Creating High-Harmonic Beams with Controlled Orbital Angular Momentum. <i>Physical Review Letters</i> , 2014, 113, 153901.	7.8	244
208	Single-photon experiments with liquid crystals for quantum science and quantum engineering applications. <i>Liquid Crystals Reviews</i> , 2014, 2, 111-129.	4.1	9
209	Generating optical orbital angular momentum at visible wavelengths using a plasmonic metasurface. <i>Light: Science and Applications</i> , 2014, 3, e167-e167.	16.6	665
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