Olga Korotkova

List of Publications by Year
in descending order

246 papers	7,972 citations	44042 48 h-index	64755 79 g-index
247 all docs	247 docs citations	247 times ranked	881 citing authors

#	Article	IF	Citations
1	Light sources generating far fields with tunable flat profiles. Optics Letters, 2012, 37, 2970.	1.7	248
2	Changes in the state of polarization of a random electromagnetic beam on propagation. Optics Communications, 2005, 246, 35-43.	1.0	234
3	Generalized Stokes parameters of random electromagnetic beams. Optics Letters, 2005, 30, 198.	1.7	222
4	Random sources generating ring-shaped beams. Optics Letters, 2013, 38, 91.	1.7	215
5	Model for a partially coherent Gaussian beam in atmospheric turbulence with application in Lasercom. Optical Engineering, 2004, 43, 330.	0.5	214
6	The far-zone behavior of the degree of polarization of electromagnetic beams propagating through atmospheric turbulence. Optics Communications, 2004, 233, 225-230.	1.0	198
7	Multi-Gaussian Schell-model beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2159.	0.8	195
8	Cosine-Gaussian Schell-model sources. Optics Letters, 2013, 38, 2578.	1.7	153
9	Realizability conditions for electromagnetic Gaussian Schell-model sources. Optics Communications, 2005, 249, 379-385.	1.0	135
10	M^2-factor of coherent and partially coherent dark hollow beams propagating in turbulent atmosphere. Optics Express, 2009, 17, 17344.	1.7	135
11	Scintillation index of a stochastic electromagnetic beam propagating in random media. Optics Communications, 2008, 281, 2342-2348.	1.0	134
12	Experimental generation of cosine-Gaussian-correlated Schell-model beams with rectangular symmetry. Optics Letters, 2014, 39, 769.	1.7	134
13	Polarization changes in partially coherent electromagnetic beams propagating through turbulent atmosphere. Waves in Random and Complex Media, 2004, 14, 513-523.	1.5	133
14	Beam conditions for radiation generated by an electromagnetic Gaussian Schell-model source. Optics Letters, 2004, 29, 1173.	1.7	122
15	A method of generating electromagnetic Gaussian Schell-model beams. Journal of Optics, 2005, 7, 232-237.	1.5	121
16	Scintillation of nonuniformly polarized beams in atmospheric turbulence. Optics Letters, 2009, 34, 2261.	1.7	120
17	Generation and propagation of a partially coherent vector beam with special correlation functions. Physical Review A, 2014, 89, .	1.0	117
18	Effect of oceanic turbulence on polarization of stochastic beams. Optics Communications, 2011, 284, 1740-1746.	1.0	114

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19	Random sources for rectangular far fields. Optics Letters, 2014, 39, 64.	1.7	114
20	Changes in the statistical properties of stochastic anisotropic electromagnetic beams on propagation in the turbulent atmosphere. Optics Express, 2007, 15, 16909.	1.7	111
21	Second-order statistics of stochastic electromagnetic beams propagating through non-Kolmogorov turbulence. Optics Express, 2010, 18, 10650.	1.7	111
22	Partially coherent standard and elegant Laguerre-Gaussian beams of all orders. Optics Express, 2009, 17, 22366.	1.7	103
23	Active laser radar systems with stochastic electromagnetic beams in turbulent atmosphere. Optics Express, 2008, 16, 15834.	1.7	100
24	Nonuniformly correlated light beams in uniformly correlated media. Optics Letters, 2012, 37, 3240.	1.7	97
25	Radiation force of scalar and electromagnetic twisted Gaussian Schell-model beams. Optics Express, 2009, 17, 21472.	1.7	94
26	Application of correlation-induced spectral changes to inverse scattering. Optics Letters, 2007, 32, 3483.	1.7	92
27	Experimental generation of a radially polarized beam with controllable spatial coherence. Applied Physics Letters, 2012, 100, .	1.5	88
28	Electromagnetic nonuniformly correlated beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2154.	0.8	84
29	Random sources for rotating spectral densities. Optics Letters, 2017, 42, 255.	1.7	81
30	Propagation factor of a stochastic electromagnetic Gaussian Schell-model beam. Optics Express, 2010, 18, 12587.	1.7	74
31	Changes in the state of polarization of a random electromagnetic beam propagating through tissue. Optics Communications, 2007, 270, 474-478.	1.0	72
32	Electromagnetic multi-Gaussian Schell-model beams. Journal of Optics (United Kingdom), 2013, 15, 025705.	1.0	71
33	Theory of weak scattering of stochastic electromagnetic fields from deterministic and random media. Physical Review A, 2010, 82, .	1.0	70
34	Propagation of electromagnetic stochastic beams in anisotropic turbulence. Optics Express, 2014, 22, 31608.	1.7	70
35	Gaussian Schell-model arrays. Optics Letters, 2015, 40, 5662.	1.7	65
36	Beyond the classical Rayleigh limit with twisted light. Optics Letters, 2012, 37, 2595.	1.7	62

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37	Propagation of cosine-Gaussian-correlated Schell-model beams in atmospheric turbulence. Optics Express, 2013, 21, 17512.	1.7	61
38	Numerical modeling of Schell-model beams with arbitrary far-field patterns. Optics Letters, 2015, 40, 352.	1.7	61
39	Scattering of scalar light fields from collections of particles. Physical Review A, 2008, 78, .	1.0	60
40	Evolution of the degree of polarization of an electromagnetic Gaussian Schell-model beam in a Gaussian cavity. Optics Letters, 2008, 33, 2266.	1.7	59
41	Invariance and noninvariance of the spectra of stochastic electromagnetic beams on propogation. Optics Letters, 2006, 31, 2097.	1.7	58
42	Robust far-field imaging by spatial coherence engineering. Opto-Electronic Advances, 2021, 4, 210027-210027.	6.4	57
43	Definitions of the degree of polarization of a light beam. Optics Letters, 2007, 32, 1015.	1.7	55
44	Coherence and polarization properties of far fields generated by quasi-homogeneous planar electromagnetic sources. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2547.	0.8	51
45	Spectral degree of coherence of a random three-dimensional electromagnetic field. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2382.	0.8	50
46	Scintillation index of modified Bessel-Gaussian beams propagating in turbulent media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 387.	0.8	50
47	Scattering matrix theory for stochastic scalar fields. Physical Review E, 2007, 75, 056609.	0.8	49
48	Color changes in stochastic light fields propagating in non-Kolmogorov turbulence. Optics Letters, 2010, 35, 3772.	1.7	49
49	Effect of the pair-structure factor of a particulate medium on scalar wave scattering in the first Born approximation. Optics Letters, 2009, 34, 1762.	1.7	48
50	Scattering-induced changes in the temporal coherence length and the pulse duration of a partially coherent plane-wave pulse. Optics Letters, 2011, 36, 517.	1.7	48
51	Ghost imaging with twisted Gaussian Schell-model beam. Optics Express, 2009, 17, 2453.	1.7	47
52	Ghost imaging with electromagnetic stochastic beams. Optics Communications, 2010, 283, 3838-3845.	1.0	47
53	Computational approaches for generating electromagnetic Gaussian Schell-model sources. Optics Express, 2014, 22, 31691.	1.7	46
54	SLM-based laboratory simulations of Kolmogorov and non-Kolmogorov anisotropic turbulence. Applied Optics, 2015, 54, 4740.	0.9	45

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55	General scale-dependent anisotropic turbulence and its impact on free space optical communication system performance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1017.	0.8	45
56	Synthesis of Im-Bessel correlated beams via coherent modes. Optics Letters, 2018, 43, 3590.	1.7	44
57	Rectangular Multi-Gaussian Schell-Model beams in atmospheric turbulence. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overl	1.0	42
58	Scattering of light from particles with semisoft boundaries. Optics Letters, 2011, 36, 3957.	1.7	41
59	Cosine-Gaussian correlated Schell-model pulsed beams. Optics Express, 2014, 22, 931.	1.7	41
60	Phase structuring of the complex degree of coherence. Optics Letters, 2018, 43, 4727.	1.7	41
61	Applications of optical coherence theory. Progress in Optics, 2020, , 43-104.	0.4	41
62	Angular spectrum representation for the propagation of arbitrary coherent and partially coherent beams through atmospheric turbulence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 745.	0.8	40
63	Propagation of the degree of cross-polarization of a stochastic electromagnetic beam through the turbulent atmosphere. Optics Communications, 2009, 282, 1691-1698.	1.0	40
64	Electromagnetic cosine-Gaussian Schell-model beams in free space and atmospheric turbulence. Optics Express, 2013, 21, 27246.	1.7	40
65	Gaussian beam propagation in anisotropic turbulence along horizontal links: theory, simulation, and laboratory implementation. Applied Optics, 2016, 55, 4079.	2.1	40
66	Measuring anisotropy ellipse of atmospheric turbulence by intensity correlations of laser light. Optics Letters, 2017, 42, 1129.	1.7	40
67	Random sources for beams with azimuthal intensity variation. Optics Letters, 2016, 41, 516.	1.7	38
68	Electromagnetic non-uniformly correlated beams in turbulent atmosphere. Optics Express, 2012, 20, 26458.	1.7	36
69	Light Propagation in a Turbulent Ocean. Progress in Optics, 2019, 64, 1-43.	0.4	36
70	Random sources for optical frames. Optics Express, 2014, 22, 10622.	1.7	35
71	Spatial power spectrum of natural water turbulence with any average temperature, salinity concentration, and light wavelength. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1614.	0.8	35
72	Mitigation of atmospheric turbulence with random light carrying OAM. Optics Communications, 2019, 446, 178-185.	1.0	33

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73	Design of weak scattering media for controllable light scattering. Optics Letters, 2015, 40, 284.	1.7	32
74	Polarization-induced spectral changes on propagation of stochastic electromagnetic beams. Physical Review E, 2007, 75, 056610.	0.8	31
75	Random light scattering by collections of ellipsoids. Optics Express, 2012, 20, 29296.	1.7	31
76	Polarization changes in light beams trespassing anisotropic turbulence. Optics Letters, 2015, 40, 3077.	1.7	31
77	Phase structuring of 2D complex coherence states. Optics Letters, 2019, 44, 2470.	1.7	31
78	Random sources for cusped beams. Optics Express, 2016, 24, 17779.	1.7	30
79	Beam criterion for atmospheric propagation. Optics Letters, 2007, 32, 2137.	1.7	29
80	Random optical beam propagation in anisotropic turbulence along horizontal links. Optics Express, 2016, 24, 24422.	1.7	29
81	Sensing of semi-rough targets embedded in atmospheric turbulence by means of stochastic electromagnetic beams. Optics Communications, 2010, 283, 4512-4518.	1.0	28
82	Propagation of the electric correlation matrix and the van Cittertâ€“Zernike theorem for random electromagnetic fields. Journal of Modern Optics, 2006, 53, 969-978.	0.6	27
83	Probability density function of the intensity of a laser beam propagating in the maritime environment. Optics Express, 2011, 19, 20322.	1.7	27
84	Scattering of light from a stationary nonuniformly correlated medium. Optics Letters, 2016, 41, 2616.	1.7	27
85	Effects of linear non-image-forming devices on spectra and on coherence and polarization properties of stochastic electromagnetic beams: part I: general theory. Journal of Modern Optics, 2005, 52, 2659-2671.	0.6	26
86	Wide-range Prandtl/Schmidt number power spectrum of optical turbulence and its application to oceanic light propagation. Optics Express, 2019, 27, 27807.	1.7	26
87	Canard explosion in chemical and optical systems. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 495-512.	0.5	26
88	Spectral changes in electromagnetic stochastic beams propagating through turbulent atmosphere. Journal of Modern Optics, 2008, 55, 1199-1208.	0.6	25
89	Alternating series of cross-spectral densities. Optics Letters, 2015, 40, 2473.	1.7	25
90	Circularly symmetric cusped random beams in free space and atmospheric turbulence. Optics Express, 2017, 25, 5057.	1.7	25

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91	Condition for canard explosion in a semiconductor optical amplifier. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1988.	0.9	24
92	Twisted EM beams with structured correlations. Optics Letters, 2018, 43, 3905.	1.7	24
93	Experimental synthesis of random light sources with circular coherence by digital micro-mirror device. Applied Physics Letters, 2020, 117, .	1.5	24
94	Unified matrix representation for spin and orbital angular momentum in partially coherent beams. Physical Review A, 2021, 103, .	1.0	24
95	Focusing of a femtosecond vortex light pulse through a high numerical aperture objective. Optics Express, 2010, 18, 10822.	1.7	23
96	Can a sphere scatter light producing rectangular intensity patterns?. Optics Letters, 2015, 40, 1709.	1.7	23
97	Intensityâ€“intensity fluctuations of stochastic fields produced upon weak scattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1139.	0.8	22
98	Convolution approach for beam propagation in random media. Optics Letters, 2016, 41, 1546.	1.7	22
99	BER variation of an optical wireless communication system in underwater turbulent medium with any temperature and salinity concentration. Optics Communications, 2021, 485, 126751.	1.0	22
100	Angular spectrum representation for propagation of random electromagnetic beams in a turbulent atmosphere. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 2728.	0.8	21
101	State of polarization of a stochastic electromagnetic beam in an optical resonator. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2710.	0.8	21
102	Degree of paraxiality of a stochastic electromagnetic Gaussian Schell-model beam. Optics Communications, 2011, 284, 1111-1117.	1.0	21
103	Products of Schell-model cross-spectral densities. Optics Letters, 2014, 39, 6879.	1.7	21
104	Light scattering by three-dimensional objects with semi-hard boundaries. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1782.	0.8	21
105	The control of pulse profiles with tunable temporal coherence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1687-1690.	0.9	21
106	Speckle propagation through atmospheric turbulence: effects of a random phase screen at the source. , 2002, , .		20
107	Experimental observation of focal shifts in focused partially coherent beams. Optics Communications, 2009, 282, 3408-3413.	1.0	19
108	Spatio-temporal coupling of random electromagnetic pulses interacting with reflecting gratings. Optics Express, 2010, 18, 22503.	1.7	19

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109	Convolution of degrees of coherence. Optics Letters, 2015, 40, 3073.	1.7	19
110	Sources for random arrays with structured complex degree of coherence. Optics Letters, 2018, 43, 2676.	1.7	19
111	Multi-Gaussian Schell-model source with a complex coherence state. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.0	19
112	Three modal decompositions of Gaussian Schell-model sources: comparative analysis. Optics Express, 2021, 29, 29676.	1.7	19
113	Complex degree of coherence modeling with famous planar curves. Optics Letters, 2018, 43, 6049.	1.7	19
114	Correlation-induced orbital angular momentum changes. Physical Review A, 2020, 102, .	1.0	18
115	Synthesis of vector nonuniformly correlated light beams by a single digital mirror device. Optics Letters, 2021, 46, 2996.	1.7	18
116	Degree of paraxiality of a partially coherent field. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1120.	0.8	17
117	Two spatial light modulator system for laboratory simulation of random beam propagation in random media. Applied Optics, 2016, 55, 1112.	2.1	17
118	Self-focusing vortex beams. Optics Letters, 2021, 46, 2384.	1.7	17
119	Electromagnetic Schell-model beams with arbitrary complex correlation states. Optics Letters, 2019, 44, 4945.	1.7	17
120	Can two planar sources with the same sets of Stokes parameters generate beams with different degrees of polarization?. Optics Letters, 2006, 31, 3025.	1.7	16
121	Free-space propagation of the spectral degree of cross-polarization of stochastic electromagnetic beams. Journal of Optics, 2009, 11, 085703.	1.5	15
122	Optical turbulence with anisotropy at different scales and its effect on laser beam propagation along vertical paths. Proceedings of SPIE, 2015, , .	0.8	15
123	Electromagnetic Schell-model sources generating far fields with stable and flexible concentric rings profiles. Optics Express, 2016, 24, 5572.	1.7	15
124	Bi-static LIDAR systems operating in the presence of oceanic turbulence. Optics Communications, 2020, 460, 125119.	1.0	15
125	Optimizing illuminationâ€™s complex coherence state for overcoming Rayleighâ€™s resolution limit. Chinese Optics Letters, 2021, 19, 052601.	1.3	15
126	Enhanced backscatter in LIDAR systems with retro-reflectors operating through a turbulent ocean. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1797.	0.8	15

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127	Propagation of Gaussian Schell-model beams through a jet engine exhaust. Optics Express, 2020, 28, 1037.	1.7	15
128	Light scintillation in soft biological tissues. Waves in Random and Complex Media, 2020, 30, 481-489.	1.6	14
129	Speckle propagation through atmospheric turbulence: effects of partial coherence of the target. , 2002, 4723, 73.		13
130	Effects of linear non-image-forming devices on spectra and on coherence and polarization properties of stochastic electromagnetic beams: part II: examples. Journal of Modern Optics, 2005, 52, 2673-2685.	0.6	13
131	Powers of the degree of coherence. Optics Express, 2015, 23, 8519.	1.7	13
132	Non-Classic Atmospheric Optical Turbulence: Review. Applied Sciences (Switzerland), 2021, 11, 8487.	1.3	13
133	Optical beam propagation in soft anisotropic biological tissues. OSA Continuum, 2018, 1, 1055.	1.8	13
134	Modal expansion for spherical homogeneous sources. Optics Communications, 2009, 282, 3859-3861.	1.0	12
135	Stochastic electromagnetic beams in positive- and negative-phase materials. Optics Letters, 2010, 35, 175.	1.7	12
136	Enhanced Back-Scatter in double-pass optical links with non-classic turbulence. Optics Express, 2018, 26, 10128.	1.7	12
137	Jones and Stokesâ€“Mueller analogous calculi for OAM-transforming optics. Optics Letters, 2021, 46, 2585.	1.7	12
138	Random source for generating Airy-like spectral density in the far field. Optics Express, 2020, 28, 7182.	1.7	12
139	Asymmetric coherence gratings. Optics Letters, 2020, 45, 1366.	1.7	12
140	Propagation of beams with any spectral, coherence, and polarization properties in turbulent atmosphere. , 2007, , .		11
141	Phase diffuser at the transmitter for lasercom link: effect of partially coherent beam on the bit-error rate. , 2003, 4976, 70.		10
142	Spectral shifts and switches in random fields upon interaction with negative-phase materials. Physical Review A, 2010, 82, .	1.0	10
143	Experimental demonstration of coupling of an electromagnetic Gaussian Schell-model beam into a single-mode optical fiber. Applied Physics B: Lasers and Optics, 2012, 108, 891-895.	1.1	10
144	Multiple phase-screen simulation of oceanic beam propagation. , 2014, , .		10

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145	Sinc Schell-model pulses. Optics Communications, 2015, 339, 115-122.	1.0	10
146	Random medium model for cusping of plane waves. Optics Letters, 2017, 42, 3251.	1.7	10
147	Orbital angular momentum transformations by non-local linear systems. Optics Letters, 2022, 47, 321.	1.7	10
148	The effect of partially coherent quasi-monochromatic Gaussian beam on the probability of fade. , 2004, , .		9
149	Polarization changes in stochastic electromagnetic beams propagating in the oceanic turbulence. , 2010, , .		9
150	Three-dimensional electromagnetic Gaussian Schell-model sources. Optics Letters, 2017, 42, 1792.	1.7	9
151	Wave and phase structure functions of plane and spherical waves in particle-free natural turbulent waters. Optics Communications, 2021, 497, 127169.	1.0	9
152	Polarization and coherence properties of a beam formed by superposition of a pair of stochastic electromagnetic beams. Optics Communications, 2008, 281, 5073-5077.	1.0	8
153	Pair-structure matrix of random collection of particles: Implications for light scattering. Optics Communications, 2011, 284, 5598-5600.	1.0	8
154	Probability density function of partially coherent beams propagating in the atmospheric turbulence. Proceedings of SPIE, 2012, , .	0.8	8
155	Spectral Gaussian Schell-model beams. Optics Letters, 2013, 38, 2233.	1.7	8
156	Polarization of random beams scattered from two-dimensional bio-tissue slices. Optics Communications, 2014, 322, 202-204.	1.0	8
157	Position modulation with random pulses. Optics Express, 2014, 22, 16197.	1.7	8
158	Random sources for beams with azimuthally varying polarization properties. Optics Express, 2016, 24, 15446.	1.7	8
159	Direct and inverse problems of weak scattering from quasi-homogeneous biological tissue. Waves in Random and Complex Media, 2020, 30, 241-249.	1.6	8
160	Lidar model for a rough-surface target: method of partial coherence. , 2004, , .		7
161	Conservation laws for stochastic electromagnetic free fields. Journal of Optics, 2008, 10, 025003.	1.5	7
162	Intensity fluctuations of partially coherent cos Gaussian and cosh Gaussian beams in atmospheric turbulence. Journal of Optics (United Kingdom), 2011, 13, 055709.	1.0	7

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163	Spread and wander of a laser beam propagating through anisotropic turbulence. Proceedings of SPIE, 2015, , .	0.8	7
164	Oceanic non-Kolmogorov optical turbulence and spherical wave propagation. Optics Express, 2021, 29, 1340.	1.7	7
165	PoincarÃ© sphere of electromagnetic spatial coherence. Optics Letters, 2021, 46, 2143.	1.7	7
166	Coherenceâ€"orbital angular momentum matrix of Schell-model sources. Optics Letters, 2022, 47, 2826.	1.7	7
167	Laser radar in turbulent atmosphere: effect of target with arbitrary roughness on second- and fourth-order statistics of Gaussian beam. , 2003, , .		6
168	Spectral shift of a stochastic electromagnetic Gaussian Schell-model beam in a Gaussian cavity. Optics Communications, 2010, 283, 4505-4511.	1.0	6
169	Technique for interaction of optical fields with turbulent medium containing particles. Optics Letters, 2011, 36, 3157.	1.7	6
170	Momentum of light scattered from collections of particles. Physical Review A, 2011, 84, .	1.0	6
171	Contribution of evanescent incident waves to the scattered far field. Physical Review A, 2012, 85, .	1.0	6
172	Tuning the spectral composition of random beams propagating in free space and in a turbulent atmosphere. Journal of Optics (United Kingdom), 2013, 15, 075714.	1.0	6
173	Random electromagnetic model beams with correlations described by two families of functions. Optics Letters, 2015, 40, 5534.	1.7	6
174	Probability density functions of instantaneous Stokes parameters on weak scattering. Optics Communications, 2017, 400, 1-8.	1.0	6
175	Adaptive optics correction in natural turbulent waters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 587.	0.8	6
176	Light scattering from stationary <i>P</i><i>T</i>-symmetric collections of particles. Optics Letters, 2021, 46, 1417.	1.7	6
177	Underwater imaging in optical turbulence: average temperature and salinity effects. Applied Optics, 2021, 60, 8969.	0.9	6
178	Non-stationary pulses with complex-valued temporal degree of coherence. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	6
179	Absorption, scattering, and optical turbulence in natural waters. Applied Optics, 2022, 61, 4404.	0.9	6
180	Source coherence-induced control of spatiotemporal coherency vortices. Optics Express, 2022, 30, 19871.	1.7	6

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181	The effect of the jet-stream on the intensity of laser beams propagating along slanted paths in the upper layers of the turbulent atmosphere. Waves in Random and Complex Media, 2009, 19, 692-702.	1.6	5
182	Spectral and polarization properties of stochastic electromagnetic beams propagating in gain or absorbing media. Optics Communications, 2010, 283, 1693-1706.	1.0	5
183	Method for tracing the position of an alien object embedded in a random particulate medium. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1595.	0.8	5
184	Laboratory implementation of partially coherent beams with super-Gaussian distribution. , 2014, , .		5
185	Source coherence-based far-field intensity filtering. Optics Express, 2015, 23, 24748.	1.7	5
186	Evolution of Spatiotemporal Intensity of Partially Coherent Pulsed Beams with Spatial Cosine-Gaussian and Temporal Laguerreâ€"Gaussian Correlations in Still, Pure Water. Photonics, 2021, 8, 102.	0.9	5
187	Electromagnetic Hanbury Brown and Twiss Effect in Atmospheric Turbulence. Photonics, 2021, 8, 186.	0.9	5
188	Coherence theory for electromagnetic, planar, PT-symmetric light sources. Optics Letters, 2021, 46, 3576-3579.	1.7	5
189	Polarization signature of a monostatic double-pass system with a corner-cube reflector in the turbulent air. Applied Optics, 2019, 58, 7139.	0.9	5
190	Cross-spectral densities with helical-Cartesian phases. Optics Express, 2020, 28, 20438.	1.7	5
191	Tailoring on-axis spectral density with circularly coherent light beams. Optics Letters, 2022, 47, 2394.	1.7	5
192	Cross-spectral density matrix of a random electromagnetic beam propagating through an apertured axially nonsymmetrical optical system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4135-4140.	0.9	4
193	Controlled simulation of optical turbulence in a temperature gradient air chamber. Proceedings of SPIE, 2016, , .	0.8	4
194	Deterministic mode representation of random stationary media for scattering problems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1021.	0.8	4
195	Linear Combinations of the Complex Degrees of Coherence. Photonics, 2021, 8, 146.	0.9	4
196	Coherence PoincarÃ© sphere of partially polarized optical beams. Physical Review A, 2022, 105, .	1.0	4
197	Fluctuations in the instantaneous Stokes parameters of stochastic electromagnetic beams propagating in the turbulent atmosphere. , 2009, , .		3
198	Laboratory Investigation of the Spectral Exponent Effect on Scintillation in Non-Kolmogorov Turbulence. , 2014, , .		3

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199	Random optical frames in atmospheric turbulence. Journal of Optics (United Kingdom), 2014, 16, 105713.	1.0	3
200	Electromagnetic coherence gratings for atmospheric applications. Optics Letters, 2021, 46, 5240-5243.	1.7	3
201	Robust far-field imaging by spatial coherence engineering. Opto-Electronic Advances, 2021, .	6.4	3
202	On z-coherence of beams radiated by Schell-model sources with Gaussian profile. Optics Letters, 2022, 47, 2258.	1.7	3
203	Beam criteria for propagation of electromagnetic beams in the turbulent atmosphere. Optics Communications, 2008, 281, 948-952.	1.0	2
204	Beam wander characteristics of flat-topped, dark hollow, cos and cosh-Gaussian, J 0 - and I 0 - Bessel Gaussian beams propagating in turbulent atmosphere: a review. Proceedings of SPIE, 2010, , .	0.8	2
205	Crystalline human eye lensâ€™ response to stochastic light. Optics Letters, 2011, 36, 2970.	1.7	2
206	Probability density function of fluctuating intensity of a laser beam propagating in marine atmospheric turbulence. , 2011, , .		2
207	Probability density functions of power-in-bucket and power-in-fiber for an infrared laser beam propagating in the maritime environment. Applied Optics, 2013, 52, 7449.	0.9	2
208	Monte Carlo simulations of three-dimensional electromagnetic Gaussian Schell-model sources. Optics Express, 2018, 26, 2303.	1.7	2
209	Multi-Gaussian random variables for modeling optical phenomena. Optics Express, 2021, 29, 25771.	1.7	2
210	Introduction to the Special Issue on Structured Light Coherence. Photonics, 2021, 8, 457.	0.9	2
211	LIDAR systems operating in the presence of oceanic turbulence. , 2019, , .		2
212	Effects of source spatial partial coherence on intensity statistics of optical beams in mono-static turbulent channels. Optics Express, 2020, 28, 20135.	1.7	2
213	Pseudo-modal expansions for generating random electromagnetic beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 545-551.	0.8	2
214	Integrating optical turbulence into Beerâ€™s law. Laser Physics Letters, 2022, 19, 046201.	0.6	2
215	The effect of the jet-stream on the intensity of laser beams propagating along slanted paths in the upper layers of the turbulent atmosphere. , 2008, , .		1
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