Jixiong Pu

List of Publications by Year in descending order

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158 papers	2,449 citations	218677 26 h-index	254184 43 g-index
159 all docs	159 docs citations	159 times ranked	998 citing authors

#	Article	IF	Citations
1	Spectral shifts and spectral switches of partially coherent light passing through an aperture. Optics Communications, 1999, 162, 57-63.	2.1	172
2	Tight focusing of a double-ring-shaped, azimuthally polarized beam. Optics Letters, 2011, 36, 2014.	3.3	96
3	Focusing of partially coherent Bessel-Gaussian beams through a high-numerical-aperture objective. Optics Letters, 2008, 33, 49.	3.3	89
4	Investigation on the scintillation reduction of elliptical vortex beams propagating in atmospheric turbulence. Optics Express, 2011, 19, 26444.	3.4	87
5	Spectral anomalies in Young's double-slit interference experiment. Optics Express, 2004, 12, 5131.	3.4	81
6	Propagation of partially coherent Bessel-Gaussian beams in turbulent atmosphere. Optics and Laser Technology, 2008, 40, 820-827.	4.6	74
7	1 Bit Electronically Reconfigurable Folded Reflectarray Antenna Based on p-i-n Diodes for Wide-Angle Beam-Scanning Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 6806-6810.	5.1	74
8	Focus shaping of cylindrically polarized vortex beams by a high numerical-aperture lens. Optics and Laser Technology, 2009, 41, 241-246.	4.6	73
9	Invariance and noninvariance of the spectra of stochastic electromagnetic beams on propogation. Optics Letters, 2006, 31, 2097.	3.3	58
10	Spectral shifts and spectral switches in diffraction of partially coherent light by a circular aperture. IEEE Journal of Quantum Electronics, 2000, 36, 1407-1411.	1.9	55
11	Beam-spreading and topological charge of vortex beams propagating in a turbulent atmosphere. Optics Communications, 2009, 282, 1255-1259.	2.1	52
12	A 1-Bit Electronically Reconfigurable Reflectarray Antenna in X Band. IEEE Access, 2019, 7, 66567-66575.	4.2	52
13	Generation of super-length optical needle by focusing hybridly polarized vector beams through a dielectric interface. Optics Letters, 2012, 37, 3303.	3.3	51
14	Experimental generation of nonuniformly correlated partially coherent light beams. Optics Letters, 2013, 38, 4821.	3.3	42
15	Determining topological charge based on an improved Fizeau interferometer. Optics Express, 2019, 27, 12774.	3.4	41
16	Spectral changes and 1 Ã— N spectral switches in the diffraction of partially coherent light by an aperture. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 339.	1.5	40
17	Propagation of the degree of cross-polarization of a stochastic electromagnetic beam through the turbulent atmosphere. Optics Communications, 2009, 282, 1691-1698.	2.1	40
18	Tight focusing properties of linearly polarized Gaussian beam with a pair of vortices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2958-2963.	2.1	40

#	Article	IF	Citations
19	Tight focusing of spirally polarized vortex beams. Optics and Laser Technology, 2010, 42, 186-191.	4.6	38
20	Broadband High-Efficiency Ultrathin Metasurfaces With Simultaneous Independent Control of Transmission and Reflection Amplitudes and Phases. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 254-263.	4.6	38
21	Ghost diffraction holographic microscopy. Optica, 2020, 7, 1697.	9.3	35
22	Partially coherent bottle beams. Optics Communications, 2005, 252, 7-11.	2.1	33
23	Propagation properties of partially coherent radially polarized beam in a turbulent atmosphere. Journal of Modern Optics, 2009, 56, 1296-1303.	1.3	33
24	Tight Focusing of Light Beams: Effect of Polarization, Phase, and Coherence. Progress in Optics, 2012, 57, 219-260.	0.6	30
25	Focusing light into desired patterns through turbid media by feedback-based wavefront shaping. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	30
26	Measuring the orbital angular momentum of elliptical vortex beams by using a slit hexagon aperture. Optics Communications, 2011, 284, 2424-2429.	2.1	29
27	Phase shifting digital holography with the Hanbury Brownâ€“Twiss approach. Optics Letters, 2020, 45, 212.	3.3	29
28	Devilâ€™s lens optical tweezers. Optics Express, 2015, 23, 8190.	3.4	26
29	Spectral changes in electromagnetic stochastic beams propagating through turbulent atmosphere. Journal of Modern Optics, 2008, 55, 1199-1208.	1.3	25
30	Highâ€Fidelity Image Reconstruction through Multimode Fiber via Polarizationâ€Enhanced Parametric Speckle Imaging. Laser and Photonics Reviews, 2021, 15, 2000376.	8.7	24
31	Focusing of a femtosecond vortex light pulse through a high numerical aperture objective. Optics Express, 2010, 18, 10822.	3.4	23
32	Intensity distribution of Gaussian beams focused by a lens with spherical aberration. Optics Communications, 1998, 151, 331-338.	2.1	22
33	Propagation of an optical vortex beam through a diamond-shaped aperture. Optics and Laser Technology, 2013, 45, 473-479.	4.6	21
34	Measuring the intensity fluctuation of partially coherent radially polarized beams in atmospheric turbulence. Optics Express, 2014, 22, 18278.	3.4	21
35	Focal shift and focal switch of partially coherent light in dual-focus systems. Optics Communications, 2005, 252, 262-267.	2.1	20
36	Stochastic electromagnetic vortex beam and its propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2734-2740.	2.1	20

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37	Increasing field of view and signal to noise ratio in the quantitative phase imaging with phase shifting holography based on the Hanbury Brown-Twiss approach. Optics and Lasers in Engineering, 2022, 148, 106771.	3.8	20
38	Signal correction by detection of scanning position in a white-light interferometer for exact surface profile measurement. Applied Optics, 2019, 58, 3548.	1.8	20
39	Generating and shifting a spherical focal spot in a 4Pi focusing system illuminated by azimuthally polarized beams. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2231-2234.	2.1	19
40	Reconstructing images of two adjacent objects passing through scattering medium via deep learning. Optics Express, 2021, 29, 43280.	3.4	19
41	Generation of stochastic electromagnetic beams with complete controllable coherence. Optics Express, 2016, 24, 21587.	3.4	18
42	Ni 3 Se 2 electrodes for high performance lithium-ion and sodium-ion batteries. Materials Letters, 2018, 220, 86-89.	2.6	18
43	Propagation of non-uniformly polarized beams in a turbulent atmosphere. Optics Communications, 2008, 281, 3617-3622.	2.1	17
44	The cross correlation function of partially coherent vortex beam. Optics Express, 2014, 22, 1350.	3.4	17
45	Imaging reconstruction through strongly scattering media by using convolutional neural networks. Optics Communications, 2020, 477, 126341.	2.1	17
46	Highâ€efficiency cross and linearâ€toâ€circular polarization converters based on novel frequency selective surfaces. Microwave and Optical Technology Letters, 2019, 61, 2410-2419.	1.4	16
47	Imaging of polarimetric-phase object through scattering medium by phase shifting. Optics Express, 2020, 28, 8145.	3.4	16
48	High-fidelity imaging through multimode fibers via deep learning. JPhys Photonics, 2021, 3, 015003.	4.6	15
49	Recognizing the orbital angular momentum (OAM) of vortex beams from speckle patterns. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	5.1	15
50	Experimental observation of spectral switch of partially coherent light focused by a lens with chromatic aberration. Optics and Laser Technology, 2007, 39, 1226-1230.	4.6	14
51	Propagation of partially coherent double-vortex beams in turbulent atmosphere. Optics and Laser Technology, 2012, 44, 1780-1785.	4.6	14
52	Tight focusing of partially coherent and radiallly polarized vortex beams. Optics Communications, 2013, 295, 5-10.	2.1	14
53	Generation of focal pattern with controllable polarization and intensity for laser beam passing through a multi-mode fiber. Optics Express, 2018, 26, 7693.	3.4	14
54	Scintillation index of double vortex beams in turbulent atmosphere. Optik, 2019, 181, 571-574.	2.9	14

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55	Speckle-field digital polarization holographic microscopy. Optics Letters, 2019, 44, 5711.	3.3	14
56	Focusing Gaussian beams by an annular lens with spherical aberration. Journal of Modern Optics, 1998, 45, 239-247.	1.3	13
57	Dual-cavity digital laser for intra-cavity mode shaping and polarization control. Optics Express, 2018, 26, 18182.	3.4	13
58	A wavefront division multiplexing holographic scheme and its application in looking through diffuser. New Journal of Physics, 2021, 23, 113034.	2.9	13
59	Tightly focusing of linearly polarized vortex beams through a dielectric interface. Optics Communications, 2008, 281, 3421-3426.	2.1	12
60	Focusing properties of the double-vortex beams through a high numerical-aperture objective. Optics and Laser Technology, 2012, 44, 441-445.	4.6	12
61	What are the traveling waves composing the Hermite-Gauss beams that make them structured wavefields?. Optics Express, 2021, 29, 29068.	3.4	12
62	Spectral shifts of partially coherent beams focused by a lens with chromatic aberration. Optics Communications, 2002, 207, 1-5.	2.1	11
63	Near-infrared long-range surface plasmon resonance in a D-shaped honeycomb microstructured optical fiber coated with Au film. Optics Express, 2021, 29, 16455.	3.4	11
64	High-Energy Nanosecond Optical Vortex Output From Nd:YAG Amplifiers. IEEE Photonics Technology Letters, 2016, 28, 1271-1274.	2.5	10
65	Polarization Transmission Matrix for Completely Polarization Control of Focal Spots in Speckle Field of Multimode Fiber. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-5.	2.9	10
66	Propagation properties and self-reconstruction of azimuthally polarized non-diffracting beams. Optics Communications, 2013, 294, 36-42.	2.1	9
67	Reshaping gaussian Schell-model beams to uniform profiles by lenses with spherical aberration. Journal of Modern Optics, 1999, 46, 1611-1620.	1.3	8
68	Axial intensity distribution of partially coherent light focused by a lens with spherical aberration. Journal of Modern Optics, 2000, 47, 605-612.	1.3	8
69	Elegant Cartesian Laguerreâ€“Hermiteâ€“Gaussian laser cavity modes. Optics Letters, 2015, 40, 1105.	3.3	8
70	Experimental investigation on optical vortex tweezers for microbubble trapping. Open Physics, 2018, 16, 383-386.	1.7	8
71	Non-invasive imaging through dynamic scattering layers via speckle correlations. Optical Review, 2021, 28, 557-563.	2.0	8
72	Sensitivity Enhanced Refractive Index Fiber Sensor Based on Long-Range Surface Plasmon Resonance in SiO2-Au-TiO2 Heterostructure. Photonics, 2021, 8, 379.	2.0	8

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73	Single-Shot On-Axis Fizeau Polarization Phase-Shifting Digital Holography for Complex-Valued Dynamic Object Imaging. Photonics, 2022, 9, 126.	2.0	8
74	Radiation forces of a dielectric medium plate induced by a Gaussian beam. Optics Communications, 2012, 285, 1680-1683.	2.1	7
75	Pulse delay and pulse compression of ultrashort light pulses in tight focusing. Optics Communications, 2014, 332, 164-168.	2.1	7
76	Modeling the ponderomotive interaction of high-power laser beams with collisional plasma: the FDTD-based approach. Optics Express, 2017, 25, 8440.	3.4	7
77	Exact surface profile measurement without subtracting dispersion phase through Fourier transform in a white-light scanning interferometer. Applied Optics, 2018, 57, 894.	1.8	7
78	Generation of controllable spectrum in multiple positions from speckle patterns. Optics and Laser Technology, 2022, 149, 107820.	4.6	7
79	Anomalous behaviors of the Fraunhofer diffraction patterns for a class of partially coherent light. Optics Express, 2003, 11, 339.	3.4	6
80	Spectral anomalies of focused high order Bessel beams in the neighborhood of focus. Optics Communications, 2006, 266, 413-418.	2.1	6
81	The effect of spherical aberration on singularities and spectral changes of focused beams. New Journal of Physics, 2006, 8, 93-93.	2.9	6
82	On-axis irradiance distribution of axicons illuminated by spherical wave. Optics and Laser Technology, 2007, 39, 1258-1261.	4.6	6
83	Spectral anomalies by superposition of polychromatic Gaussian beam and Gaussian vortex beam. Optics Express, 2014, 22, 20193.	3.4	6
84	High-energy nanosecond radially polarized beam output from Nd:YAG amplifiers. Optical Review, 2017, 24, 188-192.	2.0	6
85	Propagation Characteristics of High-Power Vortex Laguerre-Gaussian Laser Beams in Plasma. Applied Sciences (Switzerland), 2018, 8, 665.	2.5	6
86	A metasurfaceâ€enabled wideband highâ€gain dualâ€circularlyâ€polarized Fabryâ€Perot resonator antenna. Microwave and Optical Technology Letters, 2020, 62, 3195-3202.	1.4	6
87	Direct generation of visible vortex Hermite-Gaussian modes in a diode-pumped Pr:YLF laser. Optics and Laser Technology, 2020, 131, 106389.	4.6	6
88	Backpropagation neural network assisted concentration prediction of biconical microfiber sensors. Optics Express, 2020, 28, 37566.	3.4	6
89	Quantitative Analysis of Structural Parameters Importance of Helical Temperature Microfiber Sensor by Artificial Neural Network. IEEE Access, 2021, 9, 148156-148163.	4.2	6
90	Spectral changes of polychromatic stochastic electromagnetic vortex beams propagating through turbulent atmosphere. Journal of Modern Optics, 2008, 55, 2831-2842.	1.3	5

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91	Spectral and polarization properties of stochastic electromagnetic beams propagating in gain or absorbing media. Optics Communications, 2010, 283, 1693-1706.	2.1	5
92	Needle Beam Generated by a Laser Beam Passing Through a Scattering Medium. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	5
93	Visually Adjusting Coupling Conditions in Light-Emitting Micro-Components. IEEE Photonics Technology Letters, 2019, 31, 1425-1428.	2.5	5
94	Use of Scattering Layer as a Programmable Spectrum Filter. IEEE Journal of Quantum Electronics, 2019, 55, 1-6.	1.9	5
95	Bragg Grating Assisted Sagnac Interferometer in SiO2-Al2O3-La2O3 Polarization-Maintaining Fiber for Strainâ€“Temperature Discrimination. Sensors, 2020, 20, 4772.	3.8	5
96	Mutual Transfer Learning of Reconstructing Images Through a Multimode Fiber or a Scattering Medium. IEEE Access, 2021, 9, 68387-68395.	4.2	5
97	Keplerâ€™s law for optical beams. Optics Express, 2020, 28, 31979.	3.4	5
98	Three-dimensional intensity distribution of focused annular non-uniformly polarized beams. Journal of Modern Optics, 2002, 49, 1501-1513.	1.3	4
99	Investigation on z-scan experiment by use of partially coherent beams. Optics Communications, 2008, 281, 326-330.	2.1	4
100	Partially coherent aberrated beam propagating in a turbulent atmosphere. Optik, 2009, 120, 829-834.	2.9	4
101	Nanosecond zero-order pulsed Bessel beam generated from unstable resonator based on an axicon. Optics and Laser Technology, 2010, 42, 941-944.	4.6	4
102	Tailoring and analysis of vectorial coherence. Journal of Optics (United Kingdom), 2018, 20, 125605.	2.2	4
103	Axial intensity distribution of partially coherent light focused by a lens with spherical aberration. Journal of Modern Optics, 2000, 47, 605-612.	1.3	4
104	High-Q-factor phase-shifted helical fiber Bragg grating by one-step femtosecond laser inscription for high-temperature sensing. Optics Letters, 2022, 47, 1407.	3.3	4
105	Labelâ€free singleâ€shot imaging with onâ€axis phaseâ€shifting holographic reflectance quantitative phase microscopy. Journal of Biophotonics, 2022, 15, e202100400.	2.3	4
106	Recovery and Characterization of Orbital Angular Momentum Modes with Ghost Diffraction Holography. Applied Sciences (Switzerland), 2021, 11, 12167.	2.5	4
107	Singularities and spectral changes of Gaussian beams focused by a lens with spherical aberration. Optics and Laser Technology, 2008, 40, 881-889.	4.6	3
108	Polarisation singularities of non-paraxial Gaussian vortex beams diffracted by an annular aperture. Journal of Modern Optics, 2011, 58, 657-664.	1.3	3

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109	Propagation characteristics of a high-power broadband laser beam passing through a nonlinear optical medium with defects. High Power Laser Science and Engineering, 2013, 1, 132-137.	4.6	3
110	Experimental investigation on a nonuniformly correlated partially coherent laser. Applied Optics, 2018, 57, 4381.	1.8	3
111	Investigation on Intracavity SHG With Controllable Coherence in a Degenerate Laser. IEEE Journal of Quantum Electronics, 2020, 56, 1-6.	1.9	3
112	Highly accurate field-magnitude extraction of monochromatic light waves under FDTD simulations. Optik, 2019, 179, 848-853.	2.9	3
113	Complex field measurement in a single pixel hybrid correlation holography. Journal of Physics Communications, 2020, 4, 045009.	1.2	3
114	Generation of Focal Patterns With Uniform Intensity Distribution From Speckle by Hadamard-Genetic Algorithm. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	3
115	Quantitative phase recovery in ghost imaging. , 2021, , .		3
116	Beam quality changes of Gaussian Schell-model beams propagating through axicons. Optical and Quantum Electronics, 1998, 30, 265-270.	3.3	2
117	Uniform-intensity axicon: A lens coded with a symmetrically cubic phase plate. Optical and Quantum Electronics, 2001, 33, 653-660.	3.3	2
118	Focal shift of the partially coherent vortex beams focused by an aperture lens. Optik, 2009, 120, 574-578.	2.9	2
119	Radiation forces on a Rayleigh particle by a highly focused elliptically polarized beam. Journal of Modern Optics, 2014, 61, 954-960.	1.3	2
120	Propagation properties of off axial partially coherent vortex beam. Optics Communications, 2015, 357, 172-176.	2.1	2
121	Accuracy and von Neumann stability of several highly accurate FDTD approaches for modelling Debyeâ€type dielectric dispersion. IET Microwaves, Antennas and Propagation, 2018, 12, 211-216.	1.4	2
122	A dual-scanning white-light interferometer for exact thickness measurement of a large-thickness glass plate. Measurement Science and Technology, 2020, 31, 045009.	2.6	2
123	Large thickness measurement of glass plates with a spectrally resolved interferometer using variable signal positions. OSA Continuum, 2021, 4, 1792.	1.8	2
124	Measurement of phase refractive index directly from phase distributions detected with a spectrally resolved interferometer. Applied Optics, 2021, 60, 10009.	1.8	2
125	Experimental study on frequency doubling of Q-switched partially coherent laser. Optical Review, 2022, 29, 172-177.	2.0	2
126	Upconversion imaging through multimode fibers based on deep learning. Optik, 2022, 264, 169444.	2.9	2

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127	Experimental observations of the spectrum of light diffracted at a slit as a secondary source. Optics Communications, 2006, 265, 394-398.	2.1	1
128	Band gap structure of disordered chiral photonic crystals. Optical and Quantum Electronics, 2008, 40, 757-765.	3.3	1
129	Lens axicon illuminated by polychromatic Gaussian beams for generating uniform focal segments. Optik, 2009, 120, 56-61.	2.9	1
130	Second harmonic generation of off axial vortex beam in the case of walk-off effect. Optics Communications, 2016, 370, 267-275.	2.1	1
131	Effects of beam coherence on the focusing of laser beam through scattering media. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	1
132	Focusing and polarized modulation of a laser passing through a multi-core fiber. Optical Review, 2019, 26, 531-536.	2.0	1
133	Detecting the Extremely Small Angle of an Axicon by Phase-Shifting Digital Holography. Applied Sciences (Switzerland), 2019, 9, 3959.	2.5	1
134	Control the normalized polarization ratio of a focal spot in speckle field formed by non-polarization-maintaining multimode fiber. Journal of Optics (United Kingdom), 2019, 21, 045704.	2.2	1
135	Intracavity generated visible self-reconstructing Bessel-like laser beams by thermal effect. Optics Communications, 2020, 458, 124823.	2.1	1
136	Impact of Nonlinear Kerr Effect on the Focusing Performance of Optical Lens with High-Intensity Laser Incidence. Applied Sciences (Switzerland), 2020, 10, 1945.	2.5	1
137	Shape measurement of a thin glass plate through analyzing dispersion effects in a white-light scanning interferometer. Optics and Lasers in Engineering, 2021, 139, 106505.	3.8	1
138	Image reconstruction through a hollow core fiber via deep learning. Optics Communications, 2021, 488, 126840.	2.1	1
139	Reshaping Gaussian Schell-model beams to uniform profiles by lenses with spherical aberration. Journal of Modern Optics, 1999, 46, 1611-1620.	1.3	1
140	Energy losses and fluorescent efficiency of RhB-doped polymer microfibers via optical waveguiding excitation. Applied Optics, 2020, 59, 4542.	1.8	1
141	Enhancing circularly polarized XUV vortices from bicircular Laguerre-Gaussian fields. Optics Express, 2022, 30, 2636.	3.4	1
142	Influence of slow light effect on trapping force in optical tweezers. Optics Letters, 2022, 47, 710.	3.3	1
143	Beam shaping of high-power laser beams by aberrated lenses: numerical simulation. , 0, , .		0
144	Effective Fresnel number of diffracting screen illuminated by focused partially coherent beams. Journal of Modern Optics, 2007, 54, 1837-1844.	1.3	0

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145	Influence of the comatic aberration of an apertured lens on the focused polychromatic Gaussian beams. Optics and Lasers in Engineering, 2008, 46, 679-686.	3.8	0
146	Effective Fresnel number and focal shifts for focused cylindrical spherical aberrated beams. Optics and Laser Technology, 2008, 40, 742-747.	4.6	0
147	Partially coherent vortex beams focused by an aperture lens with coma. Optical Review, 2008, 15, 259-264.	2.0	0
148	Theoretical modeling on resonating the second harmonic for ultraviolet laser generation. Journal of Modern Optics, 2014, 61, 1152-1157.	1.3	0
149	The effect on on-axis degree of polarization of stochastic vortex light beams by degree of coherence. Optics Communications, 2014, 324, 63-68.	2.1	0
150	Amplification of vortex beam in Nd:YAG power amplifiers. , 2016, , .		0
151	Generation of stochastic electromagnetic beams with controllable coherence. , 2016, , .		0
152	A coordinate transformation method for calculating the 3D light intensity distribution in ICF hohlraum. Optics Communications, 2016, 368, 123-128.	2.1	0
153	Tight focusing induces pulse delay and pulse compression of double-ring-shaped radially polarized ultrashort light pulses. Journal of Modern Optics, 2016, 63, 697-703.	1.3	0
154	On the Optimal Switch Functions for Fast FDTD Monochromatic Lightwave Generation. IEEE Photonics Technology Letters, 2018, 30, 115-118.	2.5	0
155	Shape measurement of large thickness glass plates with a white-light scanning interferometer using a compensation glass and a fixed reference surface. Engineering Research Express, 2021, 3, 025044.	1.6	0
156	Generation of partially coherent beams with controllable time-dependent coherence. Optical Engineering, 2017, 56, 1.	1.0	0
157	Energy Attenuation Prediction of Dye-Doped PMMA Microfibers by Backpropagation Neural Network. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	0
158	Efficient Enhancement of Second Harmonic Generation via Noninvasive Modulation. Applied Sciences (Switzerland), 2022, 12, 3962.	2.5	0