Jian-Wen Dong

List of Publications by Year
in descending order

128 papers	4,407 citations	196777 29 h-index	129628 63 g-index
129 all docs	129 docs citations	129 times ranked	3420 citing authors

#	Article	IF	Citations
1	Topological Photonic Crystals: Physics, Designs, and Applications. Laser and Photonics Reviews, 2022, 16, .	4.4	110
2	Asymmetric Topological Valley Edge States on Siliconâ€Onâ€Insulator Platform. Laser and Photonics Reviews, 2022, 16, .	4.4	17
3	High-Efficiency Grating Couplers for Pixel-Level Flat-Top Beam Generation. Photonics, 2022, 9, 207.	0.9	1
4	Ideal nodal rings of one-dimensional photonic crystals in the visible region. Light: Science and Applications, 2022, 11, 134.	7.7	17
5	Dual-polarization two-dimensional valley photonic crystals. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	2.0	19
6	Analysis of Unidirectional Coupling in Topological Valley Photonic Crystal Waveguides. Journal of Lightwave Technology, 2021, 39, 889-895.	2.7	21
7	Absorption Reduction of Large Purcell Enhancement Enabled by Topological State-Led Mode Coupling. Physical Review Letters, 2021, 126, 023901.	2.9	21
8	Meta-objective with sub-micrometer resolution for microendoscopes. Photonics Research, 2021, 9, 106.	3.4	22
9	Valley photonic crystals. Advances in Physics: X, 2021, 6, .	1.5	35
10	Distortionless Pulse Transmission in Valley Photonic Crystal Slab Waveguide. Physical Review Applied, 2021, 15, .	1.5	13
11	Phase characterisation of metalenses. Light: Science and Applications, 2021, 10, 52.	7.7	44
12	Focus shaping of high numerical aperture lens using physics-assisted artificial neural networks. Optics Express, 2021, 29, 13011.	1.7	14
13	Lasing action in Fano-resonant superlattice metagratings. Journal Physics D: Applied Physics, 2021, 54, 345101.	1.3	3
14	Topologically Protected Valley-Dependent Quantum Photonic Circuits. Physical Review Letters, 2021, 126, 230503.	2.9	78
15	In-plane excitation of a topological nanophotonic corner state at telecom wavelengths in a cross-coupled cavity. Photonics Research, 2021, 9, 1423.	3.4	21
16	Difference in light use strategy in red alga between Griffithsia pacifica and Porphyridium purpureum. Scientific Reports, 2021, 11, 14367.	1.6	10
17	Observation of surface mode arcs associated with nodal surfaces in electromagnetic metacrystals. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2953.	0.9	2
18	Meta-objective with sub-micrometer resolution for microendoscopes. , 2021, , .		0

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19	Meta-objective with sub-micrometer resolution for microendoscopes. , 2021, , .		0
20	Topological nanophotonics for integrated devices. , 2021, , .		0
21	Meta-objective with sub-micrometer resolution for microendoscopes. , 2021, , .		0
22	Realization of complex conjugate media using non-PT-symmetric photonic crystals. Nanophotonics, 2020, 9, 195-203.	2.9	13
23	MoirÃ© Fringe Induced Gauge Field in Photonics. Physical Review Letters, 2020, 125, 203901.	2.9	21
24	Full-visible transmissive metagratings with large angle/wavelength/polarization tolerance. Nanoscale, 2020, 12, 20604-20609.	2.8	22
25	Frequency range dependent topological phases and photonic detouring in valley photonic crystals. Physical Review B, 2020, 102, .	1.1	27
26	Five-photon absorption upconversion lasing from on-chip whispering gallery mode. Nanoscale, 2020, 12, 6130-6136.	2.8	4
27	Narrow-frequency sharp-angular filters using all-dielectric cascaded meta-gratings. Nanophotonics, 2020, 9, 3443-3450.	2.9	10
28	Topological Photonics in Integrated Waveguide. , 2020, , .		0
29	Selective Excitation of Band Extrema in Valley Photonic Crystals. Annalen Der Physik, 2019, 531, 1900090.	0.9	4
30	Allâ€Dielectric Layered Photonic Topological Insulators. Laser and Photonics Reviews, 2019, 13, 1900091.	4.4	37
31	A broadband achromatic metalens array for integral imaging in the visible. Light: Science and Applications, 2019, 8, 67.	7.7	201
32	Nanoassembly and Multiscale Computation of Multifunctional Optical-Magnetic Nanoprobes for Tumor-Targeted Theranostics. ACS Applied Materials & Interfaces, 2019, 11, 41069-41081.	4.0	15
33	Exceptional points and their coalescence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric interface states in photonic crystals. Physical Review B, 2019, 100, .	1.1	12
34	Dynamic holographic imaging of real-life scene. Optics and Laser Technology, 2019, 119, 105590.	2.2	4
35	High focusing efficiency in subdiffraction focusing metalens. Nanophotonics, 2019, 8, 1279-1289.	2.9	44
36	Direct Observation of Corner States in Second-Order Topological Photonic Crystal Slabs. Physical Review Letters, 2019, 122, 233902.	2.9	367

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37	Vortex index identification and unidirectional propagation in Kagome photonic crystals. Nanophotonics, 2019, 8, 833-840.	2.9	19
38	Fabrication of chiral channel in three-dimensional photonic crystal using projection microstereolithography. Optik, 2019, 185, 1045-1050.	1.4	1
39	A silicon-on-insulator slab for topological valley transport. Nature Communications, 2019, 10, 872.	5.8	366
40	A broadband achromatic metalens array for integral imaging in the visible. , 2019, , .		2
41	Engineering the chromatic dispersion in dual-wavelength metalenses for unpolarized visible light. , 2019, , .		0
42	Edge states in self-complementary checkerboard photonic crystals: Zak phase, surface impedance, and experimental verification. Physical Review A, 2018, 97, .	1.0	11
43	Valley-controlled propagation of pseudospin states in bulk metacrystal waveguides. Physical Review B, 2018, 97, .	1.1	28
44	High-Performance Ultrathin Active Chiral Metamaterials. ACS Nano, 2018, 12, 5030-5041.	7.3	89
45	Transverse angular momentum in topological photonic crystals. Journal of Optics (United Kingdom), 2018, 20, 014006.	1.0	18
46	Tunable Electromagnetic Flow Control in Valley Photonic Crystal Waveguides. Physical Review Applied, 2018, 10, .	1.5	76
47	Accidental Double Dirac Cones and Robust Edge States in Topological Anisotropic Photonic Crystals. Laser and Photonics Reviews, 2018, 12, 1800073.	4.4	21
48	Silicon Nitride Metalenses for Close-to-One Numerical Aperture and Wide-Angle Visible Imaging. Physical Review Applied, 2018, 10, .	1.5	108
49	One-way propagation of bulk states and robust edge states in photonic crystals with broken inversion and time-reversal symmetries. Journal of Optics (United Kingdom), 2018, 20, 075103.	1.0	18
50	Valley-controlled light flow in a photonic crystal waveguide. , 2018, , .		0
51	Valley-contrasting physics in all-dielectric photonic crystals: Orbital angular momentum and topological propagation. Physical Review B, 2017, 96, .	1.1	226
52	Valley surface-wave photonic crystal and its bulk/edge transport. Physical Review B, 2017, 96, .	1.1	119
53	Valley photonic crystals for control of spin andÂtopology. Nature Materials, 2017, 16, 298-302.	13.3	456
54	One-way propagation of bulk states in photonic crystals with breaking time-reversal and inversion symmetries. , 2017, , .		0

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55	Molding the Spin Flow of Light in Valley Photonic Crystals. , 2017, , .		0
56	Experimental Realization of Zero-Refractive-Index Lens with Ultralow Spherical Aberration. , 2017, , .		0
57	Realization of Zero-Refractive-Index Lens with Ultralow Spherical Aberration. ACS Photonics, 2016, 3, 2262-2267.	3.2	33
58	Proposal for achieving in-plane magnetic mirrors by silicon photonic crystals. Optics Letters, 2016, 41, 2209.	1.7	11
59	Full controlling of Fano resonances in metal-slit superlattice. Scientific Reports, 2016, 5, 18461.	1.6	30
60	Full Polarization Conical Dispersion and Zero-Refractive-Index in Two-Dimensional Photonic Hypercrystals. Scientific Reports, 2016, 6, 22739.	1.6	25
61	Lasing in nano-grating with Fano resonance. , 2016, , .		0
62	Silicon-Based Metalens with Zero Refractive Index. , 2016, , .		0
63	Manipulating pseudospin-polarized state of light in dispersion-immune photonic topological metacrystals. Physical Review B, 2015, 92, .	1.1	31
64	Dirac directional emission in anisotropic zero refractive index photonic crystals. Scientific Reports, 2015, 5, 13085.	1.6	23
65	Conical Dispersion and Effective Zero Refractive Index in Photonic Quasicrystals. Physical Review Letters, 2015, 114, 163901.	2.9	73
66	Image quality improvement of polygon computer generated holography. Optics Express, 2015, 23, 19066.	1.7	11
67	Symmetry-protected transport in a pseudospin-polarized waveguide. Nature Communications, 2015, 6, 8183.	5.8	45
68	Hardware architecture for full analytical Fraunhofer computer-generated holograms. Optical Engineering, 2015, 54, 095101.	0.5	8
69	Molding the Flow of Light in Photonic Topological Insulators. , 2015, , .		0
70	Experimental realization of photonic topological insulator in a uniaxial metacrystal waveguide. Nature Communications, 2014, 5, 5782.	5.8	393
71	LED holographic imaging by spatial-domain diffraction computation of textured models. Proceedings of SPIE, 2014, , .	0.8	0
72	Coherence Imaging in LED Holographic Reconstruction. , 2014, , .		0

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73	Viewing-angle enlargement in holographic augmented reality using time division and spatial tiling. Optics Express, 2013, 21, 12068.	1.7	79
74	Lasing in plasmon-induced transparency nanocavity. Optics Express, 2013, 21, 20291.	1.7	26
75	Robust flow of light in three-dimensional dielectric photonic crystals. Optics Letters, 2013, 38, 3460.	1.7	0
76	Direct eigenmode analysis of plasmonic modes in metal nanoparticle chain with layered medium. Optics Letters, 2013, 38, 2244.	1.7	10
77	Power transmission and group delay in gain-assisted plasmon-induced transparency. AIP Advances, 2013, 3, 032138.	0.6	9
78	Diffuse reflection inside a hexagonal nanocavity. Scientific Reports, 2013, 3, 1298.	1.6	14
79	On the time evolution of the cloaking effect of a metamaterial slab. Optics Letters, 2012, 37, 4594.	1.7	10
80	Flat-Top Transmission Band in Periodic Plasmonic Ring Resonators. Plasmonics, 2012, 7, 435-439.	1.8	9
81	Observation of Backscattering-Immune Tunnelling States Without External Magnetic Fields. , 2012, , .		0
82	Real 3D Imaging/Video Based on Fraunhofer Computer-Generated Hologram. , 2012, , .		0
83	Whispering gallery mode enhanced luminescence from an individual ZnO micro- and nanoscaled optical resonator. Journal of Applied Physics, 2011, 109, .	1.1	10
84	Observation of Backscattering-Immune Chiral Electromagnetic Modes Without Time Reversal Breaking. Physical Review Letters, 2011, 107, 023901.	2.9	33
85	Homogeneous and isotropic bends to tunnel waves through multiple different/equal waveguides along arbitrary directions. Optics Express, 2011, 19, 13020.	1.7	26
86	Fraunhofer computer-generated hologram for diffused 3D scene in Fresnel region. Optics Letters, 2011, 36, 2128.	1.7	33
87	41.3: Spatial 3D Imaging Based on Full Analytical Holographic Computations. Digest of Technical Papers SID International Symposium, 2011, 42, 599-601.	0.1	0
88	An Invisibility Cloak Using Silver Nanowires. Plasmonics, 2011, 6, 477-481.	1.8	7
89	In-Plane Plasmonic Modes in a Quasicrystalline Array of Metal Nanoparticles. Plasmonics, 2011, 6, 507-514.	1.8	10
90	General Strategy for Nanoscopic Light Source Fabrication. Advanced Materials, 2011, 23, 2937-2940.	11.1	14

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91	Electromagnetic Bloch-like oscillations in one-dimensional quasicrystal consisting of negative permeability metamaterial. Europhysics Letters, 2011, 95, 36004.	0.7	6
92	Fano resonance of three-dimensional spiral photonic crystals: Paradoxical transmission and polarization gap. Applied Physics Letters, 2011, 98, 081116.	1.5	13
93	Metamaterial slab as a lens, a cloak, or an intermediate. Physical Review B, 2011, 83, .	1.1	25
94	A fast analytical algorithm for generating CGH of 3D scene. , 2010, , .		2
95	Photonic crystal changes coherent laser to incoherent laser with random phase. Optics Communications, 2010, 283, 1394-1396.	1.0	8
96	Super-broadband non-diffraction guiding modes in photonic crystals with elliptical rods. Journal Physics D: Applied Physics, 2010, 43, 075103.	1.3	18
97	Enhancement of spontaneous emission rate and reduction in amplified spontaneous emission threshold in electrodeposited three-dimensional ZnO photonic crystal. Applied Physics Letters, 2010, 97, .	1.5	13
98	High-speed full analytical holographic computations for true-life scenes. Optics Express, 2010, 18, 3345.	1.7	103
99	Three-dimensional imaging with monocular cues using holographic stereography. Optics Letters, 2010, 35, 3279.	1.7	6
100	Photonic localization of interface modes at the boundary between metal and Fibonacci quasiperiodic structure. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2009.	0.9	13
101	Mechanism of effective three-photon induced lasing. Applied Physics Letters, 2010, 96, .	1.5	8
102	Sensitive photonic crystal phase logic gates. Journal of Modern Optics, 2009, 56, 1895-1898.	0.6	8
103	Highly collimated emission from a left-handed photonic crystal with a quasi-cavity. Applied Physics B: Lasers and Optics, 2009, 96, 781-785.	1.1	1
104	Resonant modes and inter-well coupling in photonic quantum well with negative index materials. European Physical Journal B, 2009, 67, 221-224.	0.6	5
105	Omnidirectional reflection and flat-top transmissionin Thue-Morse quasicrystal with single-negative materials. European Physical Journal B, 2009, 69, 357-361.	0.6	11
106	Electromagnetic surface modes in one-dimensional photonic crystals with dispersive metamaterials. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1635.	0.9	16
107	Localization characteristics of two-dimensional quasicrystals consisting of metal nanoparticles. Physical Review B, 2009, 80, .	1.1	21
108	A novel europium(iii) complex with versatility in excitation ranging from infrared to ultraviolet. Physical Chemistry Chemical Physics, 2009, 11, 5119.	1.3	35

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109	Phase engineering of one-dimensional defective photonic crystal and applications. Applied Physics B: Lasers and Optics, 2008, 91, 145-148.	1.1	11
110	Multiple omnidirectional resonances in a metamaterial sandwich. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4532-4535.	0.9	1
111	Complete evanescent tunneling gaps in one-dimensional photonic crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 373, 169-172.	0.9	17
112	Robust Absorption in a Four-Layer Dielectric-Metal Structure. IEEE Photonics Technology Letters, 2008, 20, 1524-1526.	1.3	2
113	Super-radiance of excitons in a single ZnO nanostructure. Applied Physics Letters, 2008, 93, .	1.5	15
114	Slow light and omnidirectional resonances in the metamaterial-based multi-layer structures. , 2008, , .		0
115	Slow electromagnetic propagation with low group velocity dispersion in an all-metamaterial-based waveguide. Applied Physics Letters, 2007, 91, 111909.	1.5	17
116	Existing conditions of full bandgaps and absolute negative refraction in metallic-dielectric photonic crystal. Chinese Physics B, 2007, 16, 1057-1061.	1.3	6
117	Directional emitter and beam splitter based on self-collimation effect. Optics Express, 2007, 15, 1234.	1.7	50
118	Conditions of near-zero dispersion of defect modes in one-dimensional photonic crystals containing negative-index materials. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 776.	0.9	24
119	Omnidirectional resonance modes in photonic crystal heterostructures containing single-negative materials. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2237.	0.9	28
120	Robust absorption broadband in one-dimensional metallic-dielectric quasi-periodic structure. Optics Express, 2006, 14, 2014.	1.7	30
121	Derivation and characterization of dispersion of defect modes in photonic band gap from stacks of positive and negative index materials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 446-451.	0.9	14
122	Self-trapped spatiotemporal necklace-ring solitons in the Ginzburg-Landau equation. Physical Review E, 2006, 74, 016611.	0.8	20
123	Twin defect modes in one-dimensional photonic crystals with a single-negative material defect. Applied Physics Letters, 2006, 89, 141101.	1.5	35
124	Crystallography of two-dimensional photonic lattices formed by holography of three noncoplanar beams. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1085.	0.9	33
125	Formation principles of two-dimensional compound photonic lattices by one-step holographic lithography. Optics Express, 2005, 13, 2994.	1.7	22
126	Band engineering and periodic defects doping by lattices compounding. Optics Express, 2005, 13, 8526.	1.7	7

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127	Tunable sharp angular defect mode with invariant transmitted frequency range in one-dimensional photonic crystals containing negative index materials. Physical Review E, 2005, 71, 066610.	0.8	3
128	Multiport Routing of Topologically Optical Transport Based on Merging of Valley-Dependent Edge States and Second-Order Corner States. Frontiers in Physics, 0, 10, .	1.0	0