

Max Yan

List of Publications by Year in descending order

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138
papers

4,975
citations

136885

32
h-index

95218

68
g-index

140
all docs

140
docs citations

140
times ranked

4322
citing authors

#	ARTICLE	IF	CITATIONS
1	Optically Transparent Wood from a Nanoporous Cellulosic Template: Combining Functional and Structural Performance. <i>Biomacromolecules</i> , 2016, 17, 1358-1364.	2.6	384
2	Nanosecond Photothermal Effects in Plasmonic Nanostructures. <i>ACS Nano</i> , 2012, 6, 2550-2557.	7.3	344
3	Ideal Cylindrical Cloak: Perfect but Sensitive to Tiny Perturbations. <i>Physical Review Letters</i> , 2007, 99, 113903.	2.9	335
4	Coupled mode theory analysis of mode-splitting in coupled cavity system. <i>Optics Express</i> , 2010, 18, 8367.	1.7	316
5	Biologically inspired flexible photonic films for efficient passive radiative cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14657-14666.	3.3	260
6	Lignin-retaining Transparent Wood. <i>ChemSusChem</i> , 2017, 10, 3445-3451.	3.6	192
7	A selectively coated photonic crystal fiber based surface plasmon resonance sensor. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 015005.	1.0	185
8	Cylindrical Invisibility Cloak with Simplified Material Parameters is Inherently Visible. <i>Physical Review Letters</i> , 2007, 99, 233901.	2.9	143
9	Transparent Wood for Thermal Energy Storage and Reversible Optical Transmittance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20465-20472.	4.0	139
10	Broadband coupler between silicon waveguide and hybrid plasmonic waveguide. <i>Optics Express</i> , 2010, 18, 13173.	1.7	136
11	Cylindrical superlens by a coordinate transformation. <i>Physical Review B</i> , 2008, 78, .	1.1	121
12	Towards centimeter thick transparent wood through interface manipulation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1094-1101.	5.2	121
13	Photothermal reshaping of gold nanoparticles in a plasmonic absorber. <i>Optics Express</i> , 2011, 19, 14726.	1.7	108
14	Strain-insensitive and high-temperature long-period gratings inscribed in photonic crystal fiber. <i>Optics Letters</i> , 2005, 30, 367.	1.7	103
15	Ultra-narrow-band light dissipation by a stack of lamellar silver and alumina. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	100
16	Metal-insulator-metal light absorber: a continuous structure. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 025006.	1.0	92
17	Transparent plywood as a load-bearing and luminescent biocomposite. <i>Composites Science and Technology</i> , 2018, 164, 296-303.	3.8	90
18	Coordinate transformations make perfect invisibility cloaks with arbitrary shape. <i>New Journal of Physics</i> , 2008, 10, 043040.	1.2	84

#	ARTICLE	IF	CITATIONS
19	Guided plasmon polariton at 2D metal corners. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2333.	0.9	81
20	Scattering characteristics of simplified cylindrical invisibility cloaks. Optics Express, 2007, 15, 17772.	1.7	81
21	Lithography-free broadband visible light absorber based on a mono-layer of gold nanoparticles. Journal of Optics (United Kingdom), 2014, 16, 025002.	1.0	72
22	Thickness Dependence of Optical Transmittance of Transparent Wood: Chemical Modification Effects. ACS Applied Materials & Interfaces, 2019, 11, 35451-35457.	4.0	72
23	Shape-dependent absorption characteristics of three-layered metamaterial absorbers at near-infrared. Journal of Applied Physics, 2011, 109, .	1.1	71
24	Near field thermal memory based on radiative phase bistability of VO ₂ . Journal Physics D: Applied Physics, 2015, 48, 305104.	1.3	59
25	Enhanced near-field radiative heat transfer between corrugated metal plates: Role of spoof surface plasmon polaritons. Physical Review B, 2015, 92, .	1.1	48
26	Hollow-core infrared fiber incorporating metal-wire metamaterial. Optics Express, 2009, 17, 14851.	1.7	44
27	Light Scattering by Structurally Anisotropic Media: A Benchmark with Transparent Wood. Advanced Optical Materials, 2018, 6, 1800999.	3.6	39
28	Light absorber based on nano-spheres on a substrate reflector. Optics Express, 2013, 21, 6697.	1.7	38
29	Nanostructure and Properties of Nacre-Inspired Clay/Cellulose Nanocompositesâ€”Synchrotron X-ray Scattering Analysis. Macromolecules, 2019, 52, 3131-3140.	2.2	38
30	Biomimetic Photonic Multifunctional Composite for High-Performance Radiative Cooling. Advanced Optical Materials, 2021, 9, 2101151.	3.6	37
31	Ordered Au nanocrystals on a substrate formed by light-induced rapid annealing. Nanoscale, 2014, 6, 1756-1762.	2.8	35
32	Design of air-guiding honeycomb photonic bandgap fiber. Optics Letters, 2005, 30, 465.	1.7	33
33	Non-magnetic simplified cylindrical cloak with suppressed zeroth order scattering. Applied Physics Letters, 2008, 93, 021909.	1.5	33
34	Efficient coupling between dielectric and hybrid plasmonic waveguides by multimode interference power splitter. Journal of Optics (United Kingdom), 2011, 13, 075002.	1.0	33
35	Invisibility Cloaking by Coordinate Transformation. Progress in Optics, 2009, , 261-304.	0.4	31
36	Reducing crosstalk between nanowire-based hybrid plasmonic waveguides. Optics Communications, 2011, 284, 480-484.	1.0	28

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37	Near-field radiative heat transfer between metasurfaces: A full-wave study based on two-dimensional grooved metal plates. <i>Physical Review B</i> , 2016, 94, .	1.1	28
38	Experimental Demonstration of Plasmon Propagation, Coupling, and Splitting in Silver Nanowire at 1550-nm Wavelength. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 1107-1111.	1.9	27
39	Honeycomb-lattice plasmonic absorbers at NIR: anomalous high-order resonance. <i>Optics Express</i> , 2013, 21, 20873.	1.7	27
40	Metal-insulator-metal plasmonic absorbers: influence of lattice. <i>Optics Express</i> , 2014, 22, 30807.	1.7	27
41	Thermal radiation dynamics in two parallel plates: The role of near field. <i>Physical Review B</i> , 2014, 90, .	1.1	26
42	Air guiding with honeycomb photonic bandgap fiber. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 64-66.	1.3	25
43	Subwavelength hybrid plasmonic nanodisk with high Q factor and Purcell factor. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 075001.	1.0	25
44	Generalized Mueller matrix method for polarization mode dispersion measurement in a system with polarization-dependent loss or gain. <i>Optics Express</i> , 2006, 14, 5067.	1.7	24
45	All-optical switching of silicon disk resonator based on photothermal effect in metal-insulator-metal absorber. <i>Optics Letters</i> , 2014, 39, 4431.	1.7	23
46	Theoretical investigation of highly birefringent all-solid photonic bandgap fiber with elliptical cladding rods. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1243-1245.	1.3	22
47	Design of All-Solid Bandgap Fiber With Improved Confinement and Bend Losses. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2560-2562.	1.3	22
48	Field enhancement at metallic interfaces due to quantum confinement. <i>Journal of Nanophotonics</i> , 2011, 5, 051602.	0.4	22
49	Refractive index of delignified wood for transparent biocomposites. <i>RSC Advances</i> , 2020, 10, 40719-40724.	1.7	22
50	Heterostructured photonic crystal fiber. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1438-1440.	1.3	20
51	Radiative heat transfer between two dielectric-filled metal gratings. <i>Physical Review B</i> , 2016, 93, .	1.1	20
52	Coupling coefficient of two-core microstructured optical fiber. <i>Optics Communications</i> , 2006, 260, 164-169.	1.0	19
53	Layered metal-dielectric waveguide: subwavelength guidance, leveraged modulation sensitivity in mode index, and reversed mode ordering. <i>Optics Express</i> , 2011, 19, 3818.	1.7	18
54	Ultrabroadband super-Planckian radiative heat transfer with artificial continuum cavity states in patterned hyperbolic metamaterials. <i>Physical Review B</i> , 2017, 95, .	1.1	18

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55	The effect of transformation order on the invisibility performance of a practical cylindrical cloak. <i>Journal of Optics</i> , 2008, 10, 095001.	1.5	16
56	Antiguinding in microstructured optical fibers. <i>Optics Express</i> , 2004, 12, 104.	1.7	15
57	Photothermally tunable silicon-microring-based optical add-drop filter through integrated light absorber. <i>Optics Express</i> , 2014, 22, 25233.	1.7	15
58	Honeycomb Photonic Bandgap Fiber With a Modified Core Design. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 2051-2053.	1.3	14
59	Photothermal Switching Based on Silicon Mach-Zehnder Interferometer Integrated With Light Absorber. <i>IEEE Photonics Journal</i> , 2016, 8, 1-10.	1.0	14
60	Design and analysis of anti-resonant reflecting photonic crystal VCSEL lasers. <i>Optics Express</i> , 2004, 12, 4269.	1.7	13
61	Measurement of Mueller matrix for an optical fiber system with birefringence and polarization-dependent loss or gain. <i>Optics Communications</i> , 2007, 274, 116-123.	1.0	13
62	Generalized nihility media from transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 024005.	1.0	13
63	Whispering gallery mode nanodisk resonator based on layered metal-dielectric waveguide. <i>Optics Express</i> , 2014, 22, 8490.	1.7	13
64	Subwavelength adiabatic multimode Y-junctions. <i>Optics Letters</i> , 2019, 44, 4729.	1.7	13
65	Generalized frequency dependence of output Stokes parameters in an optical fiber system with PMD and PDL/PDG. <i>Optics Express</i> , 2005, 13, 8875.	1.7	12
66	Tunable and Switchable Fiber Ring Laser Among Four Wavelengths With Ultranarrow Wavelength Spacing Using a Quadruple-Transmission-Band Fiber Bragg Grating Filter. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2038-2040.	1.3	12
67	Analysis of perturbed Bragg fibers with an extended transfer matrix method. <i>Optics Express</i> , 2006, 14, 2596.	1.7	12
68	On the unambiguous determination of effective optical properties of periodic metamaterials: a one-dimensional case study. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 5, .	0.9	12
69	Plasmonic nanostructures: local versus nonlocal response. <i>Proceedings of SPIE</i> , 2010, , .	0.8	12
70	All-Optical Switching Using a Hybrid Plasmonic Donut Resonator With Photothermal Absorber. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1609-1612.	1.3	12
71	Feasibility study of nanoscaled optical waveguide based on near-resonant surface plasmon polariton. <i>Optics Express</i> , 2008, 16, 7499.	1.7	11
72	Achieving perfect imaging beyond passive and active obstacles by a transformed bilayer lens. <i>Physical Review B</i> , 2009, 79, .	1.1	11

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73	Electric field induced optical anisotropy of P3HT nanofibers in a liquid solution. <i>Optical Materials Express</i> , 2015, 5, 2642.	1.6	11
74	Silica-Based Birefringent Large-Mode-Area Fiber With a Nanostructure Core. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 246-248.	1.3	10
75	Effect of transparent wood on the polarization degree of light. <i>Optics Letters</i> , 2019, 44, 2962.	1.7	10
76	Analysis of Surface Plasmon Polariton Using Anisotropic Finite Elements. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1804-1806.	1.3	9
77	Influence of geometrical perturbation at inner boundaries of invisibility cloaks. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 968.	0.8	9
78	Thermal self-oscillations in radiative heat exchange. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	9
79	Hole-Assisted Multiring Fiber With Low Dispersion Around 1550 nm. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 123-125.	1.3	8
80	Guidance varieties in photonic crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1684.	0.9	8
81	Size Impact of Ordered P3HT Nanofibers on Optical Anisotropy. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1089-1095.	1.1	8
82	Liquid Core Fibers based on Hollow Core Microstructured Fibers. , 0, , .		7
83	Improved airâ€silica photonic crystal with a triangular airhole arrangement for hollow-core photonic bandgap fiber design. <i>Optics Letters</i> , 2005, 30, 1920.	1.7	7
84	Virtual Generalized Mueller Matrix Method for Measurement of Complex Polarization-Mode Dispersion Vector in Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 27-29.	1.3	7
85	Nanophotonics for Low-Power Switches. , 2013, , 205-241.		7
86	Gold nanoparticle transfer through photothermal effects in a metamaterial absorber by nanosecond laser. <i>Scientific Reports</i> , 2014, 4, 6080.	1.6	7
87	Scalable spectrally selective mid-infrared meta-absorbers for advanced radiative thermal engineering. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13965-13974.	1.3	7
88	On-chip reconfigurable mode converter based on cross-connected subwavelength Y-junctions. <i>Photonics Research</i> , 2021, 9, 43.	3.4	7
89	Direct characterization of focusing light by negative refraction in a photonic crystal flat lens. <i>Applied Physics Letters</i> , 2008, 93, 191114.	1.5	6
90	Quasi-monochromatic fiber depolarizer and its application to polarization-dependent loss measurement. <i>Optics Letters</i> , 2006, 31, 876.	1.7	5

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91	Design of invisibility cloaks with an open tunnel. Optics Express, 2010, 18, 27060.	1.7	5
92	Plasmonic analog of microstrip transmission line and effect of thermal annealing on its propagation loss. Optics Express, 2013, 21, 1639.	1.7	5
93	Photothermal Switching of SOI Waveguide-Based Mach-Zehnder Interferometer with Integrated Plasmonic Nanoheater. Plasmonics, 2014, 9, 1197-1205.	1.8	5
94	Dynamic Manipulation of Optical Anisotropy of Suspended Poly(3-hexylthiophene) Nanofibers. Advanced Optical Materials, 2016, 4, 1651-1656.	3.6	5
95	Complex-k modes of plasmonic chain waveguides. Journal of Physics Communications, 2019, 3, 115015.	0.5	5
96	Generalized compensated bilayer structure from the transformation optics perspective. Journal of the Optical Society of America B: Optical Physics, 2009, 26, B39.	0.9	4
97	Nanostructure Core Fiber With Enhanced Performances: Design, Fabrication and Devices. Journal of Lightwave Technology, 2009, 27, 1548-1555.	2.7	4
98	Photonic crystal surface mode microcavities. Frontiers of Physics in China, 2010, 5, 260-265.	1.0	3
99	Theoretical investigation on guiding IR light in hollow-core metallic fiber with corrugated inner surface. Optics Express, 2010, 18, 21959.	1.7	3
100	Manipulation of light with $\hat{\mu}$ transformation media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1058.	0.8	3
101	A 5-bit 1.25GS/s 4.7mW delay-based pipelined ADC in 65nm CMOS. , 2013, , .		3
102	Full-vector analysis of photonic crystal fibers using the boundary element method. , 0, , .		2
103	Compact Optical Waveguides Based on Hybrid Index and Surface-Plasmon-Polariton Guidance Mechanisms. Active and Passive Electronic Components, 2007, 2007, 1-7.	0.3	2
104	Engineering modes in optical fibers with metamaterial. Frontiers of Optoelectronics in China, 2009, 2, 153-158.	0.2	2
105	Efficient coupler between silicon waveguide and hybrid plasmonic waveguide. , 2010, , .		2
106	Near-infrared light absorption and scattering based on a mono-layer of gold nanoparticles. Journal of the European Optical Society-Rapid Publications, 2015, 10, 15031.	0.9	2
107	Birefringent optical fiber with a photonic crystal core. , 2006, , .		1
108	Measurement of polarization mode dispersion vectors in optical fibers using a virtual Mueller matrix method. Optical Engineering, 2007, 46, 035007.	0.5	1

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109	Photothermal direct writing of metallic microstructure for frequency selective surface at terahertz frequencies. , 2012, , .		1
110	Loss property of photonic bandgap fiber made of high-index cylinders in low-index host material. , 2004, , .		0
111	Fabrication of wide-bandpass filters based on phase-shifted long-period fiber gratings inscribed by focused pulses of CO/sub 2/ laser. , 2004, , .		0
112	Anti-resonant reflecting photonic crystal vertical-cavity surface-emitting lasers. , 2005, , .		0
113	Strain-insensitive and high-temperature long-period gratings inscribed in photonic crystal fiber. , 2005, , .		0
114	Leakage loss of air-guiding honeycomb photonic bandgap fiber. , 2005, , .		0
115	Effect of CO/sub 2/ laser irradiation on refractive index modulation in photonic crystal fiber. , 0, , .		0
116	Identification of Guidance Regimes in Filled-Core Photonic Crystal Fibres. , 2006, , .		0
117	Finite element study of metal-corner plasmon polariton waveguides. Proceedings of SPIE, 2007, , .	0.8	0
118	Transformation optics and invisibility cloaks. , 2008, , .		0
119	Transformation optics for designing superlenses. , 2009, , .		0
120	Silver nanowire based plasmon propagation, coupling and splitting at 1.55 μ m wavelength. Proceedings of SPIE, 2010, , .	0.8	0
121	Efficient coupler between silicon waveguide and hybrid plasmonic waveguide. , 2010, , .		0
122	Efficient directional coupler based on plasmonic waveguide for photonic integrated circuits. , 2010, , .		0
123	Silver nanowire based plasmon propagation, coupling and splitting at 1.55 μ m wavelength. , 2010, , .		0
124	Complementing or replacing silicon and III-Vs: The role of plasmonics and novel materials in future integrated photonics for telecom and interconnects. , 2011, , .		0
125	Metamaterials- and nanotechnology-based low power and small footprint integrated photonics. , 2011, , .		0
126	Photothermal phenomena in plasmonics and metamaterials. , 2011, , .		0

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127	Nanostructured plasmonic devices and their applications. , 2013, , .		0
128	Multi-resonator structure based on continuous silver thin films for transparent conductors. Applied Physics Letters, 2014, 105, 061110.	1.5	0
129	Plasmonic enhanced photothermal effects and its applications. , 2014, , .		0
130	Optical birefringence from P3HT nanofibers in alternating electric field. , 2016, , .		0
131	Polymer photonics and nano-materials for optical communication. , 2018, , .		0
132	Air-guiding photonic bandgap fiber with improved triangular air-silica photonic crystal cladding. , 2005, , .		0
133	Metamaterial Reflector for Hollow-Core Infrared Fiber Design. , 2010, , .		0
134	Efficient coupler between silicon waveguide and hybrid plasmonic waveguide. , 2010, , .		0
135	Ultrathin wide-angle optical metamaterial absorber. , 2010, , .		0
136	Electro-optical response of P3HT nanofibers in liquid solution. , 2015, , .		0
137	On-chip reconfigurable mode-order converter based on subwavelength symmetric multimode Y-junctions. , 2020, , .		0
138	On-chip broadband and reconfigurable quasi-circulator based on mode conversion. , 2021, , .		0