

Bing Wang

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133
papers

4,563
citations

32
h-index

64
g-index

141
ext. papers

5,332
ext. citations

5.1
avg, IF

5.83
L-index

#	Paper	IF	Citations
133	Broadband graphene polarizer. <i>Nature Photonics</i> , 2011 , 5, 411-415	33.9	806
132	Optical coupling of surface plasmons between graphene sheets. <i>Applied Physics Letters</i> , 2012 , 100, 13111-14	3.4	260
131	Plasmon Bragg reflectors and nanocavities on flat metallic surfaces. <i>Applied Physics Letters</i> , 2005 , 87, 013107	3.4	210
130	Strong coupling of surface plasmon polaritons in monolayer graphene sheet arrays. <i>Physical Review Letters</i> , 2012 , 109, 073901	7.4	189
129	Surface plasmon polariton propagation in nanoscale metal gap waveguides. <i>Optics Letters</i> , 2004 , 29, 1992-4	3	172
128	A microscopic view of the electromagnetic properties of sub-wavelength metallic surfaces. <i>Surface Science Reports</i> , 2009 , 64, 453-469	12.9	168
127	Plasmonic absorption enhancement in periodic cross-shaped graphene arrays. <i>Optics Express</i> , 2015 , 23, 8888-900	3.3	161
126	Enhanced surface plasmon resonance on a smooth silver film with a seed growth layer. <i>ACS Nano</i> , 2010 , 4, 3139-46	16.7	141
125	Coherent steering of nonlinear chiral valley photons with a synthetic Au/WS ₂ metasurface. <i>Nature Photonics</i> , 2019 , 13, 467-472	33.9	135
124	Recent Advances of Plasmonic Nanoparticles and their Applications. <i>Materials</i> , 2018 , 11,	3.5	76
123	Efficient generation of surface plasmon by single-nanoslit illumination under highly oblique incidence. <i>Applied Physics Letters</i> , 2009 , 94, 011114	3.4	69
122	Recent advances of two-dimensional materials in smart drug delivery nano-systems. <i>Bioactive Materials</i> , 2020 , 5, 1071-1086	16.7	66
121	High aspect subdiffraction-limit photolithography via a silver superlens. <i>Nano Letters</i> , 2012 , 12, 1549-54	11.5	65
120	Metal heterowaveguides for nanometric focusing of light. <i>Applied Physics Letters</i> , 2004 , 85, 3599-3601	3.4	63
119	Tungsten Disulfide-Gold Nanohole Hybrid Metasurfaces for Nonlinear Metalenses in the Visible Region. <i>Nano Letters</i> , 2018 , 18, 1344-1350	11.5	61
118	Exceptional Points and Asymmetric Mode Switching in Plasmonic Waveguides. <i>Journal of Lightwave Technology</i> , 2016 , 34, 5258-5262	4	58
117	Cooperative Enhancement of Two-Photon-Absorption-Induced Photoluminescence from a 2D Perovskite-Microsphere Hybrid Dielectric Structure. <i>Advanced Functional Materials</i> , 2018 , 28, 1707550	15.6	57

116	Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. <i>Physical Review Letters</i> , 2018 , 120, 133901	7.4	56
115	Precise Determination of the Crystallographic Orientations in Single ZnS Nanowires by Second-Harmonic Generation Microscopy. <i>Nano Letters</i> , 2015 , 15, 3351-7	11.5	55
114	Ultrasmooth silver thin film on PEDOT:PSS nucleation layer for extended surface plasmon propagation. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1247-53	9.5	50
113	Numerical Study on Plasmonic Absorption Enhancement by a Rippled Graphene Sheet. <i>Journal of Lightwave Technology</i> , 2017 , 35, 320-324	4	46
112	Optical bistability in defective photonic multilayers doped by graphene. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	44
111	Plasmonic waveguide ring resonator at terahertz frequencies. <i>Applied Physics Letters</i> , 2006 , 89, 133106	3.4	43
110	Topological bound modes in anti-PT-symmetric optical waveguide arrays. <i>Optics Express</i> , 2019 , 27, 13858-13870	5.3	42
109	Backscattering in monomode periodic waveguides. <i>Physical Review B</i> , 2008 , 78,	3.3	39
108	Directional beaming of light from a nanoslit surrounded by metallic heterostructures. <i>Applied Physics Letters</i> , 2006 , 88, 013114	3.4	37
107	Optically tunable plasmonic color filters. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 49-54	2.6	35
106	Effect of surface morphology on the optical properties in metal-dielectric-metal thin film systems. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1148-53	9.5	35
105	Surface Plasmonic Lattice Solitons in Semi-Infinite Graphene Sheet Arrays. <i>Journal of Lightwave Technology</i> , 2017 , 35, 2960-2965	4	34
104	Topological edge modes in non-Hermitian plasmonic waveguide arrays. <i>Optics Express</i> , 2017 , 25, 11132-11143	5.4	34
103	Harmonic Resonance Enhanced Second-Harmonic Generation in the Monolayer WS ₂ Nanocavity. <i>ACS Photonics</i> , 2020 , 7, 562-568	6.3	33
102	Low-loss plasmonic supermodes in graphene multilayers. <i>Optics Express</i> , 2014 , 22, 25324-32	3.3	33
101	Nano-antenna in a photoconductive photomixer for highly efficient continuous wave terahertz emission. <i>Scientific Reports</i> , 2013 , 3, 2824	4.9	32
100	Optical Imaginary Directional Couplers. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2510-2516	4	30
99	Exceptional points in Fano-resonant graphene metamaterials. <i>Optics Express</i> , 2017 , 25, 7203-7212	3.3	29

98	Optical bistability of graphene embedded in parity-time-symmetric photonic lattices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1731	1.7	29
97	Topological interface modes in graphene multilayer arrays. <i>Optics and Laser Technology</i> , 2018 , 103, 272-278	2.4	28
96	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. <i>Nano Research</i> , 2020 , 13, 891-918	10	27
95	Topological mode switching in a graphene doublet with exceptional points. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	27
94	Talbot effect in weakly coupled monolayer graphene sheet arrays. <i>Optics Letters</i> , 2014 , 39, 3371-3	3	27
93	Optical Transmission Enhancement and Tuning by Overlaying Liquid Crystals on a Gold Film with Patterned Nanoholes. <i>Plasmonics</i> , 2011 , 6, 659-664	2.4	27
92	Rabi Oscillations of Plasmonic Supermodes in Graphene Multilayer Arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 125-129	3.8	26
91	High Contrast Superlens Lithography Engineered by Loss Reduction. <i>Advanced Functional Materials</i> , 2012 , 22, 3777-3783	15.6	26
90	High efficiency 90° bending metal heterowaveguides for nanophotonic integration. <i>Applied Physics Letters</i> , 2006 , 89, 243120	3.4	25
89	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. <i>Research</i> , 2020 , 2020, 9085782	7.8	25
88	Liquid-crystal-loaded chiral metasurfaces for reconfigurable multiband spin-selective light absorption. <i>Optics Express</i> , 2018 , 26, 25305-25314	3.3	23
87	Giant Goos-Hänchen shifts in non-Hermitian dielectric multilayers incorporated with graphene. <i>Optics Express</i> , 2018 , 26, 2817-2828	3.3	22
86	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. <i>Physical Review A</i> , 2018 , 97,	2.6	22
85	Tunable broadband transmission and phase modulation of light through graphene multilayers. <i>Journal of Applied Physics</i> , 2014 , 115, 213102	2.5	22
84	Highly Sensitive Detection of the Lattice Distortion in Single Bent ZnO Nanowires by Second-Harmonic Generation Microscopy. <i>ACS Photonics</i> , 2016 , 3, 1308-1314	6.3	22
83	Tunable broadband plasmonic field enhancement on a graphene surface using a normal-incidence plane wave at mid-infrared frequencies. <i>Scientific Reports</i> , 2015 , 5, 11195	4.9	21
82	Efficient Mode Transfer on a Compact Silicon Chip by Encircling Moving Exceptional Points. <i>Physical Review Letters</i> , 2020 , 124, 153903	7.4	21
81	Rabi oscillations of optical modes in a waveguide with dynamic modulation. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	19

80	Plasmon-negative refraction at the heterointerface of graphene sheet arrays. <i>Optics Letters</i> , 2014 , 39, 5957-60	3	19
79	Topological Edge Modes in Non-Hermitian Photonic Aharonov-Bohm Cages. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-8	3.8	19
78	Vector plasmonic lattice solitons in nonlinear graphene-pair arrays. <i>Optics Letters</i> , 2016 , 41, 3619-22	3	19
77	Enhancement of the Second Harmonic Generation from WS ₂ Monolayers by Cooperating with Dielectric Microspheres. <i>Advanced Optical Materials</i> , 2019 , 7, 1801270	8.1	19
76	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , 2021 , 403, 126336	14.7	19
75	Planar metal heterostructures for nanoplasmonic waveguides. <i>Applied Physics Letters</i> , 2007 , 90, 013114	3.4	17
74	Enhanced plasmonic nanofocusing of terahertz waves in tapered graphene multilayers. <i>Optics Express</i> , 2016 , 24, 14765-80	3.3	17
73	Gigahertz acoustic vibrations of Ga-doped ZnO nanoparticle array. <i>Nanotechnology</i> , 2019 , 30, 305201	3.4	16
72	High-efficiency energy transfer in perovskite heterostructures. <i>Optics Express</i> , 2018 , 26, 18448-18456	3.3	16
71	Near-Field Characterization of Graphene Plasmons by Photo-Induced Force Microscopy. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800040	8.3	16
70	Two-dimensional non-Hermitian Skin Effect in a Synthetic Photonic Lattice. <i>Physical Review Applied</i> , 2020 , 14,	4.3	16
69	Plasmon assisted enhanced second-harmonic generation in single hybrid Au/ZnS nanowires. <i>Optical Materials</i> , 2017 , 64, 257-261	3.3	15
68	Evanescent coupling of transmitted light through an array of holes in a metallic film assisted by transverse surface current. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 8147-8156	1.8	14
67	Recent development and advances in Photodetectors based on two-dimensional topological insulators. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15526-15574	7.1	14
66	Airy pulse shaping using time-dependent power-law potentials. <i>Physical Review A</i> , 2018 , 97,	2.6	13
65	Plasmonic Bloch oscillations in monolayer graphene sheet arrays. <i>Optics Letters</i> , 2014 , 39, 6827-30	3	13
64	How many surface plasmons are locally excited on the ridges of metallic lamellar gratings?. <i>Applied Physics Letters</i> , 2010 , 96, 051115	3.4	13
63	Subwavelength lithography by waveguide mode interference. <i>Applied Physics Letters</i> , 2011 , 99, 151106	3.4	13

62	Nonreciprocal Phase Shift and Mode Modulation in Dynamic Graphene Waveguides. <i>Journal of Lightwave Technology</i> , 2016 , 1-1	4	13
61	Near-resonant second-order nonlinear susceptibility in c-axis oriented ZnO nanorods. <i>Applied Physics Letters</i> , 2014 , 105, 071906	3-4	12
60	Plasmonic routing in aperiodic graphene sheet arrays. <i>Optics Letters</i> , 2014 , 39, 4867-70	3	12
59	Active near infrared linear polarizer based on VO ₂ phase transition. <i>Journal of Applied Physics</i> , 2013 , 114, 163103	2.5	12
58	Surface plasmon polaritons locally excited on the ridges of metallic gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010 , 27, 1432-41	1.8	12
57	Metal heterostructure-based nanophotonic devices: finite-difference time-domain numerical simulations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1660	1.7	12
56	Rabi oscillations of surface plasmon polaritons in graphene-pair arrays. <i>Optics Express</i> , 2015 , 23, 31136-43	3.3	11
55	Discrete temporal Talbot effect in synthetic mesh lattices. <i>Optics Express</i> , 2018 , 26, 19235-19246	3.3	11
54	Discrete diffraction and Bloch oscillations in non-Hermitian frequency lattices induced by complex photonic gauge fields. <i>Physical Review B</i> , 2020 , 101,	3.3	10
53	Photoinduced Trap Passivation for Enhanced Photoluminescence in 2D Organic-Inorganic Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2020 , 8, 1901695	8.1	10
52	Asymmetric plasmonic supermodes in nonlinear graphene multilayers. <i>Optics Express</i> , 2017 , 25, 1234-1241	3.1	10
51	Simulations of nanoscale interferometer and array focusing by metal heterowaveguides. <i>Optics Express</i> , 2005 , 13, 10558-63	3.3	10
50	Discrete refraction and reflection in temporal lattice heterostructures. <i>Optics Letters</i> , 2019 , 44, 363-366	3	10
49	Bloch oscillations in photonic spectral lattices through phase-mismatched four-wave mixing. <i>Optics Letters</i> , 2019 , 44, 5430-5433	3	10
48	Bloch mode engineering in graphene modulated periodic waveguides and cavities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 1748	1.7	9
47	Optimization of metal-enhanced fluorescence by different concentrations of gold-silica core-shell nanoparticles. <i>Optics Communications</i> , 2015 , 349, 180-184	2	9
46	Photonic Weyl phase transition in dynamically modulated brick-wall waveguide arrays. <i>Optics Express</i> , 2018 , 26, 20929-20943	3.3	9
45	Plasmonic lattice solitons in nonlinear graphene sheet arrays. <i>Optics Express</i> , 2015 , 23, 32679-89	3.3	9

44	Inelastic scattering of surface plasmons in oscillating metallic waveguides. <i>Applied Physics Letters</i> , 2011 , 98, 263111	3.4	9
43	On-chip experiment for chiral mode transfer without enclosing an exceptional point. <i>Physical Review A</i> , 2021 , 103,	2.6	9
42	Surface plasmonic resonances and enhanced IR spectra in GZO nano-triangle arrays. <i>Materials Letters</i> , 2016 , 172, 36-39	3.3	8
41	Tuning the photoinduced charge transfer from CdTe quantum dots to ZnO nanofilms through Ga doping. <i>Optical Materials</i> , 2019 , 96, 109311	3.3	8
40	Plasmonic Zitterbewegung in binary graphene sheet arrays. <i>Optics Letters</i> , 2015 , 40, 2945-8	3	7
39	Chirality-selected second-harmonic holography with phase and binary amplitude manipulation. <i>Nanoscale</i> , 2020 , 12, 13330-13337	7.7	7
38	Two dimensional nanomaterials-enabled smart light regulation technologies: Recent advances and developments. <i>Optik</i> , 2020 , 220, 165191	2.5	7
37	Plasmonic Zener tunneling in binary graphene sheet arrays. <i>Optics Letters</i> , 2016 , 41, 2978-81	3	7
36	Electrically switchable photonic crystals based on liquid-crystal-infiltrated TiO-inverse opals. <i>Optics Express</i> , 2019 , 27, 15391-15398	3.3	7
35	Concentrated second-harmonic generation from a single Al-covered ZnS nanobelt. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600263	8.3	6
34	Branchlike nano-electrodes for enhanced terahertz emission in photomixers. <i>Nanotechnology</i> , 2015 , 26, 255201	3.4	6
33	PT-symmetric Talbot effect in a temporal mesh lattice. <i>Physical Review A</i> , 2018 , 98,	2.6	6
32	Accelerating self-imaging effect for Airy pulse trains. <i>Physical Review A</i> , 2019 , 99,	2.6	5
31	Improved photoemission and stability of 2D organic-inorganic lead iodide perovskite films by polymer passivation. <i>Nanotechnology</i> , 2020 , 31, 42LT01	3.4	5
30	Confining light in two-dimensional slab photonic crystal waveguides with metal plates. <i>Applied Physics Letters</i> , 2006 , 88, 193128	3.4	5
29	Frequency diffraction management through arbitrary engineering of photonic band structures. <i>Optics Express</i> , 2018 , 26, 25721-25735	3.3	5
28	Local-field enhancement of optical nonlinearities in the AGZO nano-triangle array. <i>Optical Materials</i> , 2016 , 60, 571-576	3.3	5
27	Real-time observation of frequency Bloch oscillations with fibre loop modulation. <i>Light: Science and Applications</i> , 2021 , 10, 48	16.7	5

26	Efficient Spectrum Reshaping with Photonic Gauge Potentials in Resonantly Modulated Fiber-Loop Circuits. <i>Physical Review Applied</i> , 2019 , 12,	4.3	4
25	Sub-30 nm thick plasmonic films and structures with ultralow loss. <i>Nanoscale</i> , 2014 , 6, 3243-9	7.7	4
24	Surface vector plasmonic lattice solitons in semi-infinite graphene-pair arrays. <i>Optics Express</i> , 2017 , 25, 20708-20717	3.3	4
23	Quantitatively extracting the contribution of asymmetric local-field to $\epsilon(\omega)$ in cross-shaped Ag nanoholes. <i>Optics Express</i> , 2017 , 25, 1296-1307	3.3	4
22	Frequency control of surface plasmons with oscillating metal-insulator-metal waveguides. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 43-48	2.6	4
21	Graphene-polymer multilayer heterostructure for terahertz metamaterials 2013 ,		4
20	Highly Tunable Enhancement and Switching of Nonlinear Emission from All-Inorganic Lead Halide Perovskites via Electric Field. <i>Nano Letters</i> , 2021 ,	11.5	4
19	Photonic non-Bloch quadrupole topological insulators in coupled ring resonators. <i>Physical Review A</i> , 2021 , 103,	2.6	4
18	Spectrum Manipulation for Sound with Effective Gauge Fields in Cascading Temporally Modulated Waveguides. <i>Physical Review Applied</i> , 2019 , 11,	4.3	3
17	Scattering singularities of optical waveguides under complex modulation. <i>Physical Review A</i> , 2020 , 101,	2.6	3
16	Plasmonic absorption enhancement in periodic cross-shaped graphene arrays 2015 ,		3
15	Generation of second harmonic Bessel beams through hybrid meta-axicons. <i>Optics Express</i> , 2020 , 28, 3179-3189	3.3	3
14	Bleomycin: A novel osteogenesis inhibitor of dental follicle cells via a TGF- β /SMAD7/RUNX2 pathway. <i>British Journal of Pharmacology</i> , 2021 , 178, 312-327	8.6	3
13	Waveguiding effect in 2D metal-dielectric-metal grating structure. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 127-132	2.6	2
12	Non-Hermitian flat bands in rhombic microring resonator arrays. <i>Optics Express</i> , 2021 , 29, 24373-24386	3.3	2
11	Large second-harmonic vortex beam generation with quasi-nonlinear spin-orbit interaction. <i>Science Bulletin</i> , 2021 , 66, 449-456	10.6	2
10	Controllable Plexcitonic Coupling in a WS-Ag Nanocavity with Solvents. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43554-43561	9.5	2
9	Subspace-induced Dirac point and nondissipative wave dynamics in a non-Hermitian optical lattice. <i>Physical Review A</i> , 2022 , 105,	2.6	2

8	Influences of Ga Doping on Crystal Structure and Polarimetric Pattern of SHG in ZnO Nanofilms. <i>Nanomaterials</i> , 2019 , 9,	5.4	1
7	Surface plasmon supermodes in graphene multilayers 2015 ,		1
6	Temporal Imaging Using Dispersive Gradient-Index Time Lenses. <i>Journal of Lightwave Technology</i> , 2020 , 38, 2383-2391	4	1
5	Directional Excitation of Surface Plasmon Polaritons by Circularly Polarized Vortex Beams. <i>Plasmonics</i> , 2020 , 15, 727-734	2.4	1
4	Giant Quantum Yield Enhancement in CdS/MgF ₂ /Ag Hybrid Nanobelt under Two-Photon Excitation. <i>ACS Photonics</i> , 2020 , 7, 2987-2994	6.3	1
3	Two-photon-pumped amplified spontaneous emission from Ruddlesden-Popper perovskite flakes. <i>Optics Express</i> , 2022 , 30, 21094	3.3	1
2	Frequency manipulation of topological surface states by Weyl phase transitions. <i>Optics Letters</i> , 2021 , 46, 5719-5722	3	0
1	54.1: Invited Paper: Spin Control of Light with Liquid-Crystal-Loaded Chiral Metasurfaces. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 587-588	0.5	