

# Bing Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Subspace-induced Dirac point and nondissipative wave dynamics in a non-Hermitian optical lattice. <i>Physical Review A</i> , <b>2022</b> , 105,	2.6	2
132	Two-photon-pumped amplified spontaneous emission from Ruddlesden-Popper perovskite flakes. <i>Optics Express</i> , <b>2022</b> , 30, 21094	3.3	1
131	Highly Tunable Enhancement and Switching of Nonlinear Emission from All-Inorganic Lead Halide Perovskites via Electric Field. <i>Nano Letters</i> , <b>2021</b> ,	11.5	4
130	Frequency manipulation of topological surface states by Weyl phase transitions. <i>Optics Letters</i> , <b>2021</b> , 46, 5719-5722	3	0
129	Photonic non-Bloch quadrupole topological insulators in coupled ring resonators. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	4
128	Non-Hermitian flat bands in rhombic microring resonator arrays. <i>Optics Express</i> , <b>2021</b> , 29, 24373-24386	3.3	2
127	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126336	14.7	19
126	Bleomycin: A novel osteogenesis inhibitor of dental follicle cells via a TGF- $\beta$ /SMAD7/RUNX2 pathway. <i>British Journal of Pharmacology</i> , <b>2021</b> , 178, 312-327	8.6	3
125	Large second-harmonic vortex beam generation with quasi-nonlinear spin-orbit interaction. <i>Science Bulletin</i> , <b>2021</b> , 66, 449-456	10.6	2
124	On-chip experiment for chiral mode transfer without enclosing an exceptional point. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	9
123	Real-time observation of frequency Bloch oscillations with fibre loop modulation. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 48	16.7	5
122	Controllable Plexcitonic Coupling in a WS-Ag Nanocavity with Solvents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 43554-43561	9.5	2
121	Chirality-selected second-harmonic holography with phase and binary amplitude manipulation. <i>Nanoscale</i> , <b>2020</b> , 12, 13330-13337	7.7	7
120	Scattering singularities of optical waveguides under complex modulation. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	3
119	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. <i>Nano Research</i> , <b>2020</b> , 13, 891-918	10	27
118	Improved photoemission and stability of 2D organic-inorganic lead iodide perovskite films by polymer passivation. <i>Nanotechnology</i> , <b>2020</b> , 31, 42LT01	3.4	5
117	Two dimensional nanomaterials-enabled smart light regulation technologies: Recent advances and developments. <i>Optik</i> , <b>2020</b> , 220, 165191	2.5	7

116	Discrete diffraction and Bloch oscillations in non-Hermitian frequency lattices induced by complex photonic gauge fields. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	10
115	Photoinduced Trap Passivation for Enhanced Photoluminescence in 2D Organic-Inorganic Hybrid Perovskites. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901695	8.1	10
114	Harmonic Resonance Enhanced Second-Harmonic Generation in the Monolayer WS <sub>2</sub> /Ag Nanocavity. <i>ACS Photonics</i> , <b>2020</b> , 7, 562-568	6.3	33
113	Two-dimensional non-Hermitian Skin Effect in a Synthetic Photonic Lattice. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	16
112	Generation of second harmonic Bessel beams through hybrid meta-axicons. <i>Optics Express</i> , <b>2020</b> , 28, 3179-3189	3.3	3
111	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. <i>Research</i> , <b>2020</b> , 2020, 9085782	7.8	25
110	Temporal Imaging Using Dispersive Gradient-Index Time Lenses. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 2383-2391	4	1
109	Directional Excitation of Surface Plasmon Polaritons by Circularly Polarized Vortex Beams. <i>Plasmonics</i> , <b>2020</b> , 15, 727-734	2.4	1
108	Recent development and advances in Photodetectors based on two-dimensional topological insulators. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15526-15574	7.1	14
107	Recent advances of two-dimensional materials in smart drug delivery nano-systems. <i>Bioactive Materials</i> , <b>2020</b> , 5, 1071-1086	16.7	66
106	Topological Edge Modes in Non-Hermitian Photonic Aharonov-Bohm Cages. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-8	3.8	19
105	Giant Quantum Yield Enhancement in CdS/MgF <sub>2</sub> /Ag Hybrid Nanobelt under Two-Photon Excitation. <i>ACS Photonics</i> , <b>2020</b> , 7, 2987-2994	6.3	1
104	Efficient Mode Transfer on a Compact Silicon Chip by Encircling Moving Exceptional Points. <i>Physical Review Letters</i> , <b>2020</b> , 124, 153903	7.4	21
103	Spectrum Manipulation for Sound with Effective Gauge Fields in Cascading Temporally Modulated Waveguides. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	3
102	Accelerating self-imaging effect for Airy pulse trains. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	5
101	Gigahertz acoustic vibrations of Ga-doped ZnO nanoparticle array. <i>Nanotechnology</i> , <b>2019</b> , 30, 305201	3.4	16
100	Coherent steering of nonlinear chiral valley photons with a synthetic Au/WS <sub>2</sub> metasurface. <i>Nature Photonics</i> , <b>2019</b> , 13, 467-472	33.9	135
99	Efficient Spectrum Reshaping with Photonic Gauge Potentials in Resonantly Modulated Fiber-Loop Circuits. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	4

98	Influences of Ga Doping on Crystal Structure and Polarimetric Pattern of SHG in ZnO Nanofilms. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	1
97	Tuning the photoinduced charge transfer from CdTe quantum dots to ZnO nanofilms through Ga doping. <i>Optical Materials</i> , <b>2019</b> , 96, 109311	3.3	8
96	Optical bistability of graphene embedded in parity-time-symmetric photonic lattices. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 1731	1.7	29
95	Topological bound modes in anti-PT-symmetric optical waveguide arrays. <i>Optics Express</i> , <b>2019</b> , 27, 13858-13870, 2	3.3	12
94	Electrically switchable photonic crystals based on liquid-crystal-infiltrated TiO-inverse opals. <i>Optics Express</i> , <b>2019</b> , 27, 15391-15398	3.3	7
93	Discrete refraction and reflection in temporal lattice heterostructures. <i>Optics Letters</i> , <b>2019</b> , 44, 363-366, 3	3	10
92	Bloch oscillations in photonic spectral lattices through phase-mismatched four-wave mixing. <i>Optics Letters</i> , <b>2019</b> , 44, 5430-5433	3	10
91	54.1: Invited Paper: Spin Control of Light with Liquid-Crystal-Loaded Chiral Metasurfaces. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 587-588	0.5	
90	Enhancement of the Second Harmonic Generation from WS <sub>2</sub> Monolayers by Cooperating with Dielectric Microspheres. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801270	8.1	19
89	Topological interface modes in graphene multilayer arrays. <i>Optics and Laser Technology</i> , <b>2018</b> , 103, 272-278	4.7	28
88	Cooperative Enhancement of Two-Photon-Absorption-Induced Photoluminescence from a 2D Perovskite-Microsphere Hybrid Dielectric Structure. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707550	15.6	57
87	Tungsten Disulfide-Gold Nanohole Hybrid Metasurfaces for Nonlinear Metalenses in the Visible Region. <i>Nano Letters</i> , <b>2018</b> , 18, 1344-1350	11.5	61
86	Optical Imaginary Directional Couplers. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 2510-2516	4	30
85	Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. <i>Physical Review Letters</i> , <b>2018</b> , 120, 133901	7.4	56
84	Giant Goos-Hänchen shifts in non-Hermitian dielectric multilayers incorporated with graphene. <i>Optics Express</i> , <b>2018</b> , 26, 2817-2828	3.3	22
83	High-efficiency energy transfer in perovskite heterostructures. <i>Optics Express</i> , <b>2018</b> , 26, 18448-18456	3.3	16
82	Near-Field Characterization of Graphene Plasmons by Photo-Induced Force Microscopy. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1800040	8.3	16
81	Photonic Weyl phase transition in dynamically modulated brick-wall waveguide arrays. <i>Optics Express</i> , <b>2018</b> , 26, 20929-20943	3.3	9

80	Airy pulse shaping using time-dependent power-law potentials. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	13
79	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	22
78	Discrete temporal Talbot effect in synthetic mesh lattices. <i>Optics Express</i> , <b>2018</b> , 26, 19235-19246	3.3	11
77	Frequency diffraction management through arbitrary engineering of photonic band structures. <i>Optics Express</i> , <b>2018</b> , 26, 25721-25735	3.3	5
76	Recent Advances of Plasmonic Nanoparticles and their Applications. <i>Materials</i> , <b>2018</b> , 11,	3.5	76
75	PT-symmetric Talbot effect in a temporal mesh lattice. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	6
74	Liquid-crystal-loaded chiral metasurfaces for reconfigurable multiband spin-selective light absorption. <i>Optics Express</i> , <b>2018</b> , 26, 25305-25314	3.3	23
73	Rabi Oscillations of Plasmonic Supermodes in Graphene Multilayer Arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 125-129	3.8	26
72	Plasmon assisted enhanced second-harmonic generation in single hybrid Au/ZnS nanowires. <i>Optical Materials</i> , <b>2017</b> , 64, 257-261	3.3	15
71	Surface Plasmonic Lattice Solitons in Semi-Infinite Graphene Sheet Arrays. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 2960-2965	4	34
70	Optical bistability in defective photonic multilayers doped by graphene. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	44
69	Numerical Study on Plasmonic Absorption Enhancement by a Rippled Graphene Sheet. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 320-324	4	46
68	Concentrated second-harmonic generation from a single Al-covered ZnS nanobelt. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1600263	8.3	6
67	Topological mode switching in a graphene doublet with exceptional points. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	27
66	Rabi oscillations of optical modes in a waveguide with dynamic modulation. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	19
65	Asymmetric plasmonic supermodes in nonlinear graphene multilayers. <i>Optics Express</i> , <b>2017</b> , 25, 1234-1243	3.3	10
64	Exceptional points in Fano-resonant graphene metamaterials. <i>Optics Express</i> , <b>2017</b> , 25, 7203-7212	3.3	29
63	Topological edge modes in non-Hermitian plasmonic waveguide arrays. <i>Optics Express</i> , <b>2017</b> , 25, 11132-11143	3.3	34

62	Surface vector plasmonic lattice solitons in semi-infinite graphene-pair arrays. <i>Optics Express</i> , <b>2017</b> , 25, 20708-20717	3-3	4
61	Quantitatively extracting the contribution of asymmetric local-field to $\mathcal{Q}$ in cross-shaped Ag nanoholes. <i>Optics Express</i> , <b>2017</b> , 25, 1296-1307	3-3	4
60	Exceptional Points and Asymmetric Mode Switching in Plasmonic Waveguides. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 5258-5262	4	58
59	Plasmonic Zener tunneling in binary graphene sheet arrays. <i>Optics Letters</i> , <b>2016</b> , 41, 2978-81	3	7
58	Surface plasmonic resonances and enhanced IR spectra in GZO nano-triangle arrays. <i>Materials Letters</i> , <b>2016</b> , 172, 36-39	3-3	8
57	Enhanced plasmonic nanofocusing of terahertz waves in tapered graphene multilayers. <i>Optics Express</i> , <b>2016</b> , 24, 14765-80	3-3	17
56	Highly Sensitive Detection of the Lattice Distortion in Single Bent ZnO Nanowires by Second-Harmonic Generation Microscopy. <i>ACS Photonics</i> , <b>2016</b> , 3, 1308-1314	6-3	22
55	Nonreciprocal Phase Shift and Mode Modulation in Dynamic Graphene Waveguides. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 1-1	4	13
54	Local-field enhancement of optical nonlinearities in the AGZO nano-triangle array. <i>Optical Materials</i> , <b>2016</b> , 60, 571-576	3-3	5
53	Vector plasmonic lattice solitons in nonlinear graphene-pair arrays. <i>Optics Letters</i> , <b>2016</b> , 41, 3619-22	3	19
52	Bloch mode engineering in graphene modulated periodic waveguides and cavities. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 1748	1-7	9
51	Tunable broadband plasmonic field enhancement on a graphene surface using a normal-incidence plane wave at mid-infrared frequencies. <i>Scientific Reports</i> , <b>2015</b> , 5, 11195	4-9	21
50	Precise Determination of the Crystallographic Orientations in Single ZnS Nanowires by Second-Harmonic Generation Microscopy. <i>Nano Letters</i> , <b>2015</b> , 15, 3351-7	11-5	55
49	Optimization of metal-enhanced fluorescence by different concentrations of gold-silica core-shell nanoparticles. <i>Optics Communications</i> , <b>2015</b> , 349, 180-184	2	9
48	Plasmonic Zitterbewegung in binary graphene sheet arrays. <i>Optics Letters</i> , <b>2015</b> , 40, 2945-8	3	7
47	Plasmonic absorption enhancement in periodic cross-shaped graphene arrays. <i>Optics Express</i> , <b>2015</b> , 23, 8888-900	3-3	161
46	Plasmonic lattice solitons in nonlinear graphene sheet arrays. <i>Optics Express</i> , <b>2015</b> , 23, 32679-89	3-3	9
45	Branchlike nano-electrodes for enhanced terahertz emission in photomixers. <i>Nanotechnology</i> , <b>2015</b> , 26, 255201	3-4	6

44	Surface plasmon supermodes in graphene multilayers <b>2015</b> ,			1
43	Plasmonic absorption enhancement in periodic cross-shaped graphene arrays <b>2015</b> ,			3
42	Rabi oscillations of surface plasmon polaritons in graphene-pair arrays. <i>Optics Express</i> , <b>2015</b> , 23, 31136-43	3.3		11
41	Near-resonant second-order nonlinear susceptibility in c-axis oriented ZnO nanorods. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 071906		3.4	12
40	Tunable broadband transmission and phase modulation of light through graphene multilayers. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 213102		2.5	22
39	Sub-30 nm thick plasmonic films and structures with ultralow loss. <i>Nanoscale</i> , <b>2014</b> , 6, 3243-9		7.7	4
38	Plasmonic Bloch oscillations in monolayer graphene sheet arrays. <i>Optics Letters</i> , <b>2014</b> , 39, 6827-30		3	13
37	Plasmon-negative refraction at the heterointerface of graphene sheet arrays. <i>Optics Letters</i> , <b>2014</b> , 39, 5957-60		3	19
36	Plasmonic routing in aperiodic graphene sheet arrays. <i>Optics Letters</i> , <b>2014</b> , 39, 4867-70		3	12
35	Talbot effect in weakly coupled monolayer graphene sheet arrays. <i>Optics Letters</i> , <b>2014</b> , 39, 3371-3		3	27
34	Low-loss plasmonic supermodes in graphene multilayers. <i>Optics Express</i> , <b>2014</b> , 22, 25324-32		3.3	33
33	Nano-antenna in a photoconductive photomixer for highly efficient continuous wave terahertz emission. <i>Scientific Reports</i> , <b>2013</b> , 3, 2824		4.9	32
32	Graphene-polymer multilayer heterostructure for terahertz metamaterials <b>2013</b> ,			4
31	Active near infrared linear polarizer based on VO <sub>2</sub> phase transition. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 163103		2.5	12
30	Ultrasmooth silver thin film on PEDOT:PSS nucleation layer for extended surface plasmon propagation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1247-53		9.5	50
29	Strong coupling of surface plasmon polaritons in monolayer graphene sheet arrays. <i>Physical Review Letters</i> , <b>2012</b> , 109, 073901		7.4	189
28	High aspect subdiffraction-limit photolithography via a silver superlens. <i>Nano Letters</i> , <b>2012</b> , 12, 1549-54	11.5		65
27	Optical coupling of surface plasmons between graphene sheets. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 131113	1.4		260

26	High Contrast Superlens Lithography Engineered by Loss Reduction. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3777-3783	15.6	26
25	Optically tunable plasmonic color filters. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 49-54	2.6	35
24	Frequency control of surface plasmons with oscillating metal-insulator-metal waveguides. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 43-48	2.6	4
23	Waveguiding effect in 2D metal-dielectric-metal grating structure. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 127-132	2.6	2
22	Effect of surface morphology on the optical properties in metal-dielectric-metal thin film systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 1148-53	9.5	35
21	Broadband graphene polarizer. <i>Nature Photonics</i> , <b>2011</b> , 5, 411-415	33.9	806
20	Optical Transmission Enhancement and Tuning by Overlaying Liquid Crystals on a Gold Film with Patterned Nanoholes. <i>Plasmonics</i> , <b>2011</b> , 6, 659-664	2.4	27
19	Inelastic scattering of surface plasmons in oscillating metallic waveguides. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 263111	3.4	9
18	Subwavelength lithography by waveguide mode interference. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 151106	3.4	13
17	Enhanced surface plasmon resonance on a smooth silver film with a seed growth layer. <i>ACS Nano</i> , <b>2010</b> , 4, 3139-46	16.7	141
16	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> , <b>2010</b> , 27, 1432-41	1.8	12
15	How many surface plasmons are locally excited on the ridges of metallic lamellar gratings?. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 051115	3.4	13
14	Efficient generation of surface plasmon by single-nanoslit illumination under highly oblique incidence. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 011114	3.4	69
13	A microscopic view of the electromagnetic properties of sub-metallic surfaces. <i>Surface Science Reports</i> , <b>2009</b> , 64, 453-469	12.9	168
12	Backscattering in monomode periodic waveguides. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	39
11	Planar metal heterostructures for nanoplasmonic waveguides. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 013114	3.4	17
10	Confining light in two-dimensional slab photonic crystal waveguides with metal plates. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 193128	3.4	5
9	High efficiency 90° bending metal heterowaveguides for nanophotonic integration. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 243120	3.4	25



8	Directional beaming of light from a nanoslit surrounded by metallic heterostructures. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 013114	3.4	37
7	Plasmonic waveguide ring resonator at terahertz frequencies. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 133106	3.4	43
6	Metal heterostructure-based nanophotonic devices: finite-difference time-domain numerical simulations. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2006</b> , 23, 1660	1.7	12
5	Simulations of nanoscale interferometer and array focusing by metal heterowaveguides. <i>Optics Express</i> , <b>2005</b> , 13, 10558-63	3.3	10
4	Plasmon Bragg reflectors and nanocavities on flat metallic surfaces. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 013107	3.4	210
3	Surface plasmon polariton propagation in nanoscale metal gap waveguides. <i>Optics Letters</i> , <b>2004</b> , 29, 1992-4	3	172
2	Metal heterowaveguides for nanometric focusing of light. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3599-3601	3.4	63
1	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> , <b>2003</b> , 15, 8147-8156	1.8	14