

# Yuan Wang

## List of Publications by Citations

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128  
papers

15,109  
citations

49  
h-index

122  
g-index

157  
ext. papers

18,672  
ext. citations

13.3  
avg, IF

6.7  
L-index

#	Paper	IF	Citations
128	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , <b>2017</b> , 546, 265-269	36.9	1890
127	Plasmon-induced transparency in metamaterials. <i>Physical Review Letters</i> , <b>2008</b> , 101, 047401	7.4	1667
126	Single-mode laser by parity-time symmetry breaking. <i>Science</i> , <b>2014</b> , 346, 972-5	33.3	905
125	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 744-749	28.7	828
124	Photonic spin Hall effect at metasurfaces. <i>Science</i> , <b>2013</b> , 339, 1405-7	33.3	799
123	An ultrathin invisibility skin cloak for visible light. <i>Science</i> , <b>2015</b> , 349, 1310-4	33.3	684
122	Optical negative refraction in bulk metamaterials of nanowires. <i>Science</i> , <b>2008</b> , 321, 930	33.3	683
121	Probing excitonic dark states in single-layer tungsten disulphide. <i>Nature</i> , <b>2014</b> , 513, 214-8	50.4	672
120	Observation of piezoelectricity in free-standing monolayer MoS <sub>2</sub> . <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 151-158	28.7	537
119	Structural phase transition in monolayer MoTe driven by electrostatic doping. <i>Nature</i> , <b>2017</b> , 550, 487-491	50.4	390
118	Monolayer excitonic laser. <i>Nature Photonics</i> , <b>2015</b> , 9, 733-737	33.9	369
117	Valley photonic crystals for control of spin and topology. <i>Nature Materials</i> , <b>2017</b> , 16, 298-302	27	273
116	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807916	24	255
115	Flying plasmonic lens in the near field for high-speed nanolithography. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 733-7	28.7	245
114	Lasing and anti-lasing in a single cavity. <i>Nature Photonics</i> , <b>2016</b> , 10, 796-801	33.9	201
113	Large-scale chemical assembly of atomically thin transistors and circuits. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 954-959	28.7	201
112	Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 598-602	28.7	195

111	Experimental demonstration of low-loss optical waveguiding at deep sub-wavelength scales. <i>Nature Communications</i> , <b>2011</b> , 2,	17.4	183
110	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. <i>Physical Review Letters</i> , <b>2018</b> , 120, 227601.	7.4	170
109	Accessing the exceptional points of parity-time symmetric acoustics. <i>Nature Communications</i> , <b>2016</b> , 7, 11110	17.4	152
108	Generation of acoustic self-bending and bottle beams by phase engineering. <i>Nature Communications</i> , <b>2014</b> , 5, 4316	17.4	145
107	High-speed acoustic communication by multiplexing orbital angular momentum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 7250-7253	11.5	139
106	High thermoelectric power factor in two-dimensional crystals of MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	133
105	Maskless plasmonic lithography at 22 nm resolution. <i>Scientific Reports</i> , <b>2011</b> , 1, 175	4.9	130
104	Athermal Broadband Graphene Optical Modulator with 35 GHz Speed. <i>ACS Photonics</i> , <b>2016</b> , 3, 1564-1568.	3.3	116
103	Observation of chiral phonons. <i>Science</i> , <b>2018</b> , 359, 579-582	33.3	110
102	Demonstration of a large-scale optical exceptional point structure. <i>Optics Express</i> , <b>2014</b> , 22, 1760-7	3.3	110
101	Atomically phase-matched second-harmonic generation in a 2D crystal. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16131	16.7	109
100	Resonant and non-resonant generation and focusing of surface plasmons with circular gratings. <i>Optics Express</i> , <b>2006</b> , 14, 5664-70	3.3	108
99	Multiferroicity in atomic van der Waals heterostructures. <i>Nature Communications</i> , <b>2019</b> , 10, 2657	17.4	104
98	Excitons in atomically thin 2D semiconductors and their applications. <i>Nanophotonics</i> , <b>2017</b> , 6, 1309-1328.	6.3	100
97	Plasmonic nearfield scanning probe with high transmission. <i>Nano Letters</i> , <b>2008</b> , 8, 3041-5	11.5	94
96	Observation of acoustic Dirac-like cone and double zero refractive index. <i>Nature Communications</i> , <b>2017</b> , 8, 14871	17.4	92
95	Nanostructured copper filaments in electrochemical deposition. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3827-30.	3.0	87
94	Metasurface-Enabled Remote Quantum Interference. <i>Physical Review Letters</i> , <b>2015</b> , 115, 025501	7.4	80

93	Unidirectional spectral singularities. <i>Physical Review Letters</i> , <b>2014</b> , 113, 263905	7.4	78
92	Exciton-dominant electroluminescence from a diode of monolayer MoS <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2014</b> , 104, 193508	3.4	72
91	Feedback-driven self-assembly of symmetry-breaking optical metamaterials in solution. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 1002-6	28.7	70
90	Nonlinear optical selection rule based on valley-exciton locking in monolayer ws <sub>2</sub> . <i>Light: Science and Applications</i> , <b>2015</b> , 4, e366-e366	16.7	70
89	Control of Coherently Coupled Exciton Polaritons in Monolayer Tungsten Disulphide. <i>Physical Review Letters</i> , <b>2017</b> , 119, 027403	7.4	67
88	Broad band two-dimensional manipulation of surface plasmons. <i>Nano Letters</i> , <b>2009</b> , 9, 462-6	11.5	67
87	Anti-Hermitian plasmon coupling of an array of gold thin-film antennas for controlling light at the nanoscale. <i>Physical Review Letters</i> , <b>2012</b> , 109, 193902	7.4	64
86	Growth and characteristics of La <sub>2</sub> O <sub>3</sub> gate dielectric prepared by low pressure metalorganic chemical vapor deposition. <i>Applied Surface Science</i> , <b>2004</b> , 233, 91-98	6.7	64
85	Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 084007	1.7	60
84	All optical interface for parallel, remote, and spatiotemporal control of neuronal activity. <i>Nano Letters</i> , <b>2007</b> , 7, 3859-63	11.5	60
83	Enhanced thermoelectric properties of nanostructured n-type Bi <sub>2</sub> Te <sub>3</sub> by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123513	14.7	58
82	Giant suppression of photobleaching for single molecule detection via the Purcell effect. <i>Nano Letters</i> , <b>2013</b> , 13, 5949-53	11.5	54
81	Adiabatic elimination-based coupling control in densely packed subwavelength waveguides. <i>Nature Communications</i> , <b>2015</b> , 6, 7565	17.4	52
80	A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 151902	3.4	49
79	SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> thin films and their ferroelectric fatigue behaviors under varying switching pulse widths and frequencies. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 3160-3164	2.5	48
78	Mapping the near-field dynamics in plasmon-induced transparency. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	41
77	Observation of acoustic spin. <i>National Science Review</i> , <b>2019</b> , 6, 707-712	10.8	40
76	Oblique-plane single-molecule localization microscopy for tissues and small intact animals. <i>Nature Methods</i> , <b>2019</b> , 16, 853-857	21.6	39

75	Imaging visible light using anisotropic metamaterial slab lens. <i>Optics Express</i> , <b>2009</b> , 17, 22380-5	3.3	38
74	Formation of nanostructured copper filaments in electrochemical deposition. <i>Physical Review E</i> , <b>2003</b> , 67, 061601	2.4	36
73	Design, fabrication and characterization of indefinite metamaterials of nanowires. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 3434-46	3	34
72	Phonon heat transfer across a vacuum through quantum fluctuations. <i>Nature</i> , <b>2019</b> , 576, 243-247	50.4	34
71	Nonreciprocal Localization of Photons. <i>Physical Review Letters</i> , <b>2018</b> , 120, 043901	7.4	32
70	Greatly enhanced mechanical properties and heat distortion resistance of poly(L-lactic acid) upon compositing with functionalized reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9028 <sup>13</sup>	1.3	32
69	Direct observation of Klein tunneling in phononic crystals. <i>Science</i> , <b>2020</b> , 370, 1447-1450	33.3	30
68	Metasurface-Mediated Quantum Entanglement. <i>ACS Photonics</i> , <b>2018</b> , 5, 971-976	6.3	30
67	Stable Casimir equilibria and quantum trapping. <i>Science</i> , <b>2019</b> , 364, 984-987	33.3	29
66	Synthesis of a gold nanoparticle dimer plasmonic resonator through two-phase-mediated functionalization. <i>Nanotechnology</i> , <b>2008</b> , 19, 435605	3.4	28
65	Realization of Translational Symmetry in Trapped Cold Ion Rings. <i>Physical Review Letters</i> , <b>2017</b> , 118, 053801	11.1	27
64	Spontaneous formation of periodic nanostructured film by electrodeposition: Experimental observations and modeling. <i>Physical Review E</i> , <b>2004</b> , 69, 021607	2.4	27
63	Second harmonic generation spectroscopy on two-dimensional materials [Invited]. <i>Optical Materials Express</i> , <b>2019</b> , 9, 1136	2.6	27
62	Coherence-Driven Topological Transition in Quantum Metamaterials. <i>Physical Review Letters</i> , <b>2016</b> , 116, 165502	7.4	26
61	Experimental demonstration of in-plane negative-angle refraction with an array of silicon nanoposts. <i>Nano Letters</i> , <b>2015</b> , 15, 2055-60	11.5	26
60	Unidirectional Perfect Absorber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 115-120	9.8	26
59	Axial plane optical microscopy. <i>Scientific Reports</i> , <b>2014</b> , 4, 7253	4.9	25
58	Lipid bilayer-integrated optoelectronic tweezers for nanoparticle manipulations. <i>Nano Letters</i> , <b>2013</b> , 13, 2766-70	11.5	24

57	Atomic-scale ion transistor with ultrahigh diffusivity. <i>Science</i> , <b>2021</b> , 372, 501-503	33.3	23
56	Room-Temperature Giant Stark Effect of Single Photon Emitter in van der Waals Material. <i>Nano Letters</i> , <b>2019</b> , 19, 7100-7105	11.5	22
55	Emergence of an enslaved phononic bandgap in a non-equilibrium pseudo-crystal. <i>Nature Materials</i> , <b>2017</b> , 16, 808-813	27	21
54	Observation of Rydberg exciton polaritons and their condensate in a perovskite cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 20274-20279	11.5	21
53	Spontaneous Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers Interfaced with an Anisotropic Metasurface. <i>Physical Review Letters</i> , <b>2018</b> , 121, 116102	7.4	21
52	Adiabatic far-field sub-diffraction imaging. <i>Nature Communications</i> , <b>2015</b> , 6, 7942	17.4	19
51	Mid-IR broadband supercontinuum generation from a suspended silicon waveguide. <i>Optics Letters</i> , <b>2018</b> , 43, 1387-1390	3	19
50	Tuning the polarization state of light via time retardation with a microstructured surface. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	19
49	Growth and characterization of Al <sub>2</sub> O <sub>3</sub> gate dielectric films by low-pressure metalorganic chemical vapor deposition. <i>Microelectronic Engineering</i> , <b>2003</b> , 66, 842-848	2.5	18
48	Formation of Arrays of Straight Copper Wires on Solid Substrate by Electrodeposition. <i>Journal of the Physical Society of Japan</i> , <b>2001</b> , 70, 1452-1455	1.5	18
47	Asymmetric Free-Space Light Transport at Nonlinear Metasurfaces. <i>Physical Review Letters</i> , <b>2018</b> , 121, 046101	7.4	17
46	Interacting dark resonances with plasmonic meta-molecules. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 111109	3.4	16
45	Global Co-transcriptional Splicing in Arabidopsis and the Correlation with Splicing Regulation in Mature RNAs. <i>Molecular Plant</i> , <b>2020</b> , 13, 266-277	14.4	16
44	Valley optomechanics in a monolayer semiconductor. <i>Nature Photonics</i> , <b>2019</b> , 13, 397-401	33.9	15
43	Quasi-3D plasmonic coupling scheme for near-field optical lithography and imaging. <i>Optics Letters</i> , <b>2015</b> , 40, 3918-21	3	14
42	Nonresonant Metasurface for Fast Decoding in Acoustic Communications. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	14
41	A two-stage heating scheme for heat assisted magnetic recording. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17B702	2.5	14
40	Sensitive method for measuring third order nonlinearities in compact dielectric and hybrid plasmonic waveguides. <i>Optics Express</i> , <b>2016</b> , 24, 545-54	3.3	14

39	Experimental Demonstration of Hyperbolic Metamaterial Assisted Illumination Nanoscopy. <i>ACS Nano</i> , <b>2018</b> , 12, 11316-11322	16.7	14
38	A non-unitary metasurface enables continuous control of quantum photon-photon interactions from bosonic to fermionic. <i>Nature Photonics</i> , <b>2021</b> , 15, 267-271	33.9	13
37	Calculation of vectorial diffraction in optical systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2018</b> , 35, 526-535	1.8	12
36	Screening effect of graphite and bilayer graphene on excitons in MoSe <sub>2</sub> monolayer. <i>2D Materials</i> , <b>2017</b> , 4, 015021	5.9	12
35	Synthesis of hydroxyl-terminated copolymer of styrene and 4-vinylpyridine via nitroxide-mediated living radical polymerization. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 1842-1847	2.9	12
34	Experimental Realization of Two Decoupled Directional Couplers in a Subwavelength Packing by Adiabatic Elimination. <i>Nano Letters</i> , <b>2015</b> , 15, 7383-7	11.5	11
33	Nonlinear Optics at Excited States of Exciton Polaritons in Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , <b>2020</b> , 20, 1676-1685	11.5	11
32	Organization of Lithium Cubane Clusters into Three-Dimensional Porous Frameworks by Self-Penetration and Self-Polymerization. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 6531-6536	3.5	11
31	Macroscale Transformation Optics Enabled by Photoelectrochemical Etching. <i>Advanced Materials</i> , <b>2015</b> , 27, 6131-6	24	10
30	Urban forest landscape patterns in Malanshan City, China. <i>International Journal of Sustainable Development and World Ecology</i> , <b>2009</b> , 16, 346-355	3.8	10
29	Dissipative self-organization in optical space. <i>Nature Photonics</i> , <b>2018</b> , 12, 739-743	33.9	10
28	Vectorial point spread function and optical transfer function in oblique plane imaging. <i>Optics Express</i> , <b>2014</b> , 22, 11140-51	3.3	9
27	Formation of copper electrodeposits on an untreated insulating substrate. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 695-704	1.8	9
26	Directional excitation without breaking reciprocity. <i>New Journal of Physics</i> , <b>2016</b> , 18, 095001	2.9	9
25	Nonconventional metasurfaces: from non-Hermitian coupling, quantum interactions, to skin cloak. <i>Nanophotonics</i> , <b>2018</b> , 7, 1233-1243	6.3	9
24	Subwavelength pixelated CMOS color sensors based on anti-Hermitian metasurface. <i>Nature Communications</i> , <b>2020</b> , 11, 3916	17.4	8
23	Enhanced mechanical properties and thermal stability of PSMA by functionalized graphene nanosheets. <i>RSC Advances</i> , <b>2016</b> , 6, 68748-68753	3.7	8
22	Topological kink plasmons on magnetic-domain boundaries. <i>Nature Communications</i> , <b>2019</b> , 10, 4565	17.4	7

21	Vortex degeneracy lifting and Aharonov-Bohm-like interference in deformed photonic graphene. <i>Optics Letters</i> , <b>2017</b> , 42, 915-918	3	7
20	Nonlinear valley phonon scattering under the strong coupling regime. <i>Nature Materials</i> , <b>2021</b> , 20, 1210-1215	12.7	7
19	Biodegradable shape memory alloys: Progress and prospects. <i>Biomaterials</i> , <b>2021</b> , 279, 121215	15.6	5
18	Quantum coherence-driven self-organized criticality and nonequilibrium light localization. <i>Science Advances</i> , <b>2018</b> , 4, eaaq0465	14.3	4
17	Nonlinear infrared plasmonic waveguide arrays. <i>Nano Research</i> , <b>2016</b> , 9, 224-229	10	4
16	Tunable oscillations in the Purkinje neuron. <i>Physical Review E</i> , <b>2012</b> , 85, 041905	2.4	4
15	Quantum-coherence-enhanced transient surface plasmon lasing. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 054002	1.7	3
14	Optical modulation of aqueous metamaterial properties at large scale. <i>Optics Express</i> , <b>2015</b> , 23, 28736-41.3	4.3	3
13	Electron-hole hybridization in bilayer graphene. <i>National Science Review</i> , <b>2020</b> , 7, 248-253	10.8	3
12	Scalable Plasmonic Nanolithography: Prototype System Design and Construction <b>2016</b> ,		2
11	Comparison of different theories for focusing through a plane interface: comment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2018</b> , 35, 591-592	1.8	2
10	Low-loss and energy efficient modulation in silicon photonic waveguides by adiabatic elimination scheme. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 033105	3.4	2
9	Experimental Demonstration of Optical Metamaterials with Isotropic Negative Index <b>2016</b> ,		2
8	Photon Spin Induced Collective Electron Motion on a Metasurface <b>2015</b> ,		2
7	Observation of strong excitonic magneto-chiral anisotropy in twisted bilayer van der Waals crystals. <i>Nature Communications</i> , <b>2021</b> , 12, 2088	17.4	2
6	Three-Dimensional Metasurface Carpet Cloak <b>2015</b> ,		1
5	Intracellular delivery of top-down fabricated tunable nano-plasmonic resonators. <i>Nanoscale</i> , <b>2013</b> , 5, 10179-82	7.7	1
4	Three-dimensional nanoscale imaging by plasmonic Brownian microscopy. <i>Nanophotonics</i> , <b>2017</b> , 7, 489-495	4.5	1



- 3 Particle enhanced plasmonic NSOM **2007**, 1
- 2 Bulky Nanowire Metamaterials for Negative Refraction at Broadband Frequencies from Visible to NIR **2009**, 1
- 1 Driving the magnetic phase transition of graphene nanoribbons with fluctuation fields and doping. *Journal Physics D: Applied Physics*, **2019**, 52, 415003 3