Cheng Wei Qiu

List of Publications by Citations

418 papers	21,613 citations	80 h-index	127 g-index
481 ext. papers	28,237 ext. citations	11.4 avg, IF	7.47 L-index

#	Paper	IF	Citations
418	Three-dimensional optical holography using a plasmonic metasurface. *Nature Communications*, **2013**, 4,	17.4	844
417	Dual-polarity plasmonic metalens for visible light. *Nature Communications*, **2012**, 3, 1198	17.4	745
416	Electromagnetic reprogrammable coding-metasurface holograms. *Nature Communications*, **2017**, 8, 197	17.4	480
415	Plasmonic color palettes for photorealistic printing with aluminum nanostructures. *Nano Letters*, **2014**, 14, 4023-9	11.5	410
414	Experimental demonstration of a bilayer thermal cloak. *Physical Review Letters*, **2014**, 112, 054302	7.4	362
413	Ultrathin pancharatnam-berry metasurface with maximal cross-polarization efficiency. *Advanced Materials*, **2015**, 27, 1195-200	24	341
412	A Reconfigurable Active Huygens' Metalens. *Advanced Materials*, **2017**, 29, 1606422	24	301
411	Spin and wavelength multiplexed nonlinear metasurface holography. *Nature Communications*, **2016**, 7, 11930	17.4	290
410	Visible-Frequency Metasurface for Structuring and Spatially Multiplexing Optical Vortices. *Advanced Materials*, **2016**, 28, 2533-9	24	289
409	Optical manipulation from the microscale to the nanoscale: fundamentals, advances and prospects. *Light: Science and Applications*, **2017**, 6, e17039	16.7	285
408	Full control and manipulation of heat signatures: cloaking, camouflage and thermal metamaterials. *Advanced Materials*, **2014**, 26, 1731-4	24	262
407	Advances in Full Control of Electromagnetic Waves with Metasurfaces. *Advanced Optical Materials*, **2016**, 4, 818-833	8.1	240
406	Recent advances in the spin Hall effect of light. *Reports on Progress in Physics*, **2017**, 80, 066401	14.4	231
405	Hybrid bilayer plasmonic metasurface efficiently manipulates visible light. *Science Advances*, **2016**, 2, e1501168	14.3	218
404	Three-dimensional plasmonic stereoscopic prints in full colour. *Nature Communications*, **2014**, 5, 5361	17.4	218
403	Color generation via subwavelength plasmonic nanostructures. *Nanoscale*, **2015**, 7, 6409-19	7.7	214
402	Single gradientless light beam drags particles as tractor beams. *Physical Review Letters*, **2011**, 107, 203601	7.4	209

401	. *IEEE Transactions on Geoscience and Remote Sensing*, **2010**, 48, 3824-3838	8.1	205
400	Giant photoluminescence enhancement in tungsten-diselenide-gold plasmonic hybrid structures. *Nature Communications*, **2016**, 7, 11283	17.4	201
399	Machine-learning reprogrammable metasurface imager. *Nature Communications*, **2019**, 10, 1082	17.4	194
398	Switchable Ultrathin Quarter-wave Plate in Terahertz Using Active Phase-change Metasurface. *Scientific Reports*, **2015**, 5, 15020	4.9	189
397	Design and Modeling of Spoof Surface Plasmon Modes-Based Microwave Slow-Wave Transmission Line. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 1817-1825	4.1	188
396	Topological polaritons and photonic magic angles in twisted □MoO bilayers. *Nature*, **2020**, 582, 209-213	50.4	174
395	Homogeneous thermal cloak with constant conductivity and tunable heat localization. *Scientific Reports*, **2013**, 3, 1593	4.9	161
394	. *IEEE Geoscience and Remote Sensing Letters*, **2009**, 6, 567-571	4.1	157
393	Illusion Thermotics. *Advanced Materials*, **2018**, 30, e1707237	24	155
392	Nano-optic endoscope for high-resolution optical coherence tomography. *Nature Photonics*, **2018**, 12, 540-547	33.9	145
391	Invisible Sensors: Simultaneous Sensing and Camouflaging in Multiphysical Fields. *Advanced Materials*, **2015**, 27, 7752-8	24	145
390	Silicon multi-meta-holograms for the broadband visible light. *Laser and Photonics Reviews*, **2016**, 10, 500-509	8.9	143
389	Giant intrinsic chiro-optical activity in planar dielectric nanostructures. *Light: Science and Applications*, **2018**, 7, 17158	16.7	141
388	Longitudinal Multifoci Metalens for Circularly Polarized Light. *Advanced Optical Materials*, **2015**, 3, 1201-1206	8.2	140
387	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Graphene-Black Phosphorus Heterostructure. *ACS Applied Materials & Interfaces*, **2017**, 9, 36137-36145	9.5	138
386	Coherent steering of nonlinear chiral valley photons with a synthetic Au□WS2 metasurface. *Nature Photonics*, **2019**, 13, 467-472	33.9	135
385	Structured thermal surface for radiative camouflage. *Nature Communications*, **2018**, 9, 273	17.4	134
384	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. *Small*, **2018**, 14, e1800682	11	128

383	Noninterleaved Metasurface for (2-1) Spin- and Wavelength-Encoded Holograms. *Nano Letters*, **2018**, 18, 8016-8024	11.5	125
382	Shaping a Subwavelength Needle with Ultra-long Focal Length by Focusing Azimuthally Polarized Light. *Scientific Reports*, **2015**, 5, 9977	4.9	124
381	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. *ACS Nano*, **2017**, 11, 9382-9389	16.7	122
380	Single-Layer Metasurface with Controllable Multiwavelength Functions. *Nano Letters*, **2018**, 18, 2420-2427	11.5	119
379	Intelligent metasurface imager and recognizer. *Light: Science and Applications*, **2019**, 8, 97	16.7	119
378	Manipulating acoustic wavefront by inhomogeneous impedance and steerable extraordinary reflection. *Scientific Reports*, **2013**, 3, 2537	4.9	117
377	Anti-parity-time symmetry in diffusive systems. *Science*, **2019**, 364, 170-173	33.3	116
376	High-purity orbital angular momentum states from a visible metasurface laser. *Nature Photonics*, **2020**, 14, 498-503	33.9	114
375	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. *Science Advances*, **2018**, 4, eaao0773	14.3	114
374	Ultrahigh-capacity non-periodic photon sieves operating in visible light. *Nature Communications*, **2015**, 6, 7059	17.4	113
373	Thermal meta-device in analogue of zero-index photonics. *Nature Materials*, **2019**, 18, 48-54	27	112
372	Redirection of sound waves using acoustic metasurface. *Applied Physics Letters*, **2013**, 103, 151604	3.4	111
371	A Minimalist Single-Layer Metasurface for Arbitrary and Full Control of Vector Vortex Beams. *Advanced Materials*, **2020**, 32, e1905659	24	111
370	Directional Janus Metasurface. *Advanced Materials*, **2020**, 32, e1906352	24	111
369	Optimization-free superoscillatory lens using phase and amplitude masks. *Laser and Photonics Reviews*, **2014**, 8, 152-157	8.3	109
368	An optically driven digital metasurface for programming electromagnetic functions. *Nature Electronics*, **2020**, 3, 165-171	28.4	108
367	An ultrathin terahertz quarter-wave plate using planar babinet-inverted metasurface. *Optics Express*, **2015**, 23, 11114-22	3.3	107
366	Linear momentum increase and negative optical forces at dielectric interface. *Nature Photonics*, **2013**, 7, 787-790	33.9	104

365	Spherical cloaking with homogeneous isotropic multilayered structures. *Physical Review E*, **2009**, 79, 047602	2.4	103
364	A Fully Phase-Modulated Metasurface as An Energy-Controllable Circular Polarization Router. *Advanced Science*, **2020**, 7, 2001437	13.6	103
363	Interference-assisted kaleidoscopic meta-plexer for arbitrary spin-wavefront manipulation. *Light: Science and Applications*, **2019**, 8, 3	16.7	103
362	Low-Loss Spoof Surface Plasmon Slow-Wave Transmission Lines With Compact Transition and High Isolation. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 64, 3078-3086	4.1	102
361	Symmetry-breaking-induced nonlinear optics at a microcavity surface. *Nature Photonics*, **2019**, 13, 21-24	33.9	100
360	Lead Halide Perovskite Nanostructures for Dynamic Color Display. *ACS Nano*, **2018**, 12, 8847-8854	16.7	99
359	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. *Energy and Environmental Science*, **2013**, 6, 3537	35.4	99
358	Terahertz metamaterials with semiconductor split-ring resonators for magnetostatic tunability. *Optics Express*, **2008**, 16, 14390-6	3.3	99
357	A Supercritical Lens Optical Label-Free Microscopy: Sub-Diffraction Resolution and Ultra-Long Working Distance. *Advanced Materials*, **2017**, 29, 1602721	24	96
356	Slow cooling and efficient extraction of C-exciton hot carriers in MoS monolayer. *Nature Communications*, **2017**, 8, 13906	17.4	95
355	Full-colour nanoprint-hologram synchronous metasurface with arbitrary hue-saturation-brightness control. *Light: Science and Applications*, **2019**, 8, 95	16.7	95
354	A Single-Layered Spoof-Plasmon-Mode Leaky Wave Antenna With Consistent Gain. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 681-687	4.9	93
353	Structural color three-dimensional printing by shrinking photonic crystals. *Nature Communications*, **2019**, 10, 4340	17.4	93
352	Trichromatic and Tripolarization-Channel Holography with Noninterleaved Dielectric Metasurface. *Nano Letters*, **2020**, 20, 994-1002	11.5	92
351	Creation of Ghost Illusions Using Wave Dynamics in Metamaterials. *Advanced Functional Materials*, **2013**, 23, 4028-4034	15.6	89
350	Light-Controllable Digital Coding Metasurfaces. *Advanced Science*, **2018**, 5, 1801028	13.6	87
349	Chirality-Assisted High-Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. *Advanced Optical Materials*, **2018**, 7, 1801479	8.1	87
348	Malus-metasurface-assisted polarization multiplexing. *Light: Science and Applications*, **2020**, 9, 101	16.7	86

347	Sculpting nanoparticle dynamics for single-bacteria-level screening and direct binding-efficiency measurement. *Nature Communications*, **2018**, 9, 815	17.4	85
346	Electromagnetic chirality: from fundamentals to nontraditional chiroptical phenomena. *Light: Science and Applications*, **2020**, 9, 139	16.7	85
345	Plasmonic-Assisted Graphene Oxide Artificial Muscles. *Advanced Materials*, **2019**, 31, e1806386	24	85
344	Twisted Acoustics: Metasurface-Enabled Multiplexing and Demultiplexing. *Advanced Materials*, **2018**, 30, e1800257	24	84
343	Dynamic Janus Metasurfaces in the Visible Spectral Region. *Nano Letters*, **2018**, 18, 4584-4589	11.5	83
342	Encapsulated annealing: enhancing the plasmon quality factor in lithographically-defined nanostructures. *Scientific Reports*, **2014**, 4, 5537	4.9	81
341	Completely Spin-Decoupled Dual-Phase Hybrid Metasurfaces for Arbitrary Wavefront Control. *ACS Photonics*, **2019**, 6, 211-220	6.3	81
340	Micro-Doppler Effect Analysis and Feature Extraction in ISAR Imaging With Stepped-Frequency Chirp Signals. *IEEE Transactions on Geoscience and Remote Sensing*, **2010**, 48, 2087-2098	8.1	80
339	Nanophotonic Structural Colors. *ACS Photonics*, **2021**, 8, 18-33	6.3	80
338	Broadband Achromatic Metasurface-Refractive Optics. *Nano Letters*, **2018**, 18, 7801-7808	11.5	79
337	Full-space Cloud of Random Points with a Scrambling Metasurface. *Light: Science and Applications*, **2018**, 7, 63	16.7	76
336	Moir□Hyperbolic Metasurfaces. *Nano Letters*, **2020**, 20, 3217-3224	11.5	75
335	Broadband and stable acoustic vortex emitter with multi-arm coiling slits. *Applied Physics Letters*, **2016**, 108, 203501	3.4	75
334	Spoof Plasmon-Based Slow-Wave Excitation of Dielectric Resonator Antennas. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 2094-2099	4.9	73
333	3D Metaphotonic Nanostructures with Intrinsic Chirality. *Advanced Functional Materials*, **2018**, 28, 1803147	17.6	73
332	Metasurface holographic image projection based on mathematical properties of Fourier transform. *PhotoniX*, **2020**, 1,	19	72
331	Encrypted Thermal Printing with Regionalization Transformation. *Advanced Materials*, **2019**, 31, e1807849	24	70
330	All-Optical Chirality-Sensitive Sorting via Reversible Lateral Forces in Interference Fields. *ACS Nano*, **2017**, 11, 4292-4300	16.7	69

329	Upconversion superburst with sub-2 μs lifetime. *Nature Nanotechnology*, **2019**, 14, 1110-1115	28.7	69
328	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. *Nano Letters*, **2019**, 19, 1158-1165	11.5	69
327	Transforming heat transfer with thermal metamaterials and devices. *Nature Reviews Materials*, **2021**, 6, 488-507	73.3	68
326	Planar Diffractive Lenses: Fundamentals, Functionalities, and Applications. *Advanced Materials*, **2018**, 30, e1704556	24	67
325	Broadband all-dielectric magnifying lens for far-field high-resolution imaging. *Advanced Materials*, **2013**, 25, 6963-8	24	66
324	Scattering by rotationally symmetric anisotropic spheres: potential formulation and parametric studies. *Physical Review E*, **2007**, 75, 026609	2.4	66
323	Thermal Conductance of the 2D MoS/h-BN and graphene/h-BN Interfaces. *Scientific Reports*, **2017**, 7, 43886	4.9	64
322	Spiniform phase-encoded metagratings entangling arbitrary rational-order orbital angular momentum. *Light: Science and Applications*, **2018**, 7, 17156	16.7	64
321	Photon momentum transfer in inhomogeneous dielectric mixtures and induced tractor beams. *Light: Science and Applications*, **2015**, 4, e278-e278	16.7	63
320	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. *Scientific Reports*, **2014**, 4, 6257	4.9	62
319	Material-independent and size-independent tractor beams for dipole objects. *Physical Review Letters*, **2012**, 109, 023902	7.4	61
318	Full-Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. *Advanced Materials* , **2018**, 30, e1804019	24	61
317	Reprogrammable meta-hologram for optical encryption. *Nature Communications*, **2020**, 11, 5484	17.4	60
316	Roadmap on superoscillations. *Journal of Optics (United Kingdom)*, **2019**, 21, 053002	1.7	59
315	Sensitive readout of implantable microsensors using a wireless system locked to an exceptional point. *Nature Electronics*, **2019**, 2, 335-342	28.4	59
314	Ultrahigh-contrast-ratio silicon Fano diode. *Physical Review A*, **2012**, 85,	2.6	59
313	Selectively Plasmon-Enhanced Second-Harmonic Generation from Monolayer Tungsten Diselenide on Flexible Substrates. *ACS Nano*, **2018**, 12, 1859-1867	16.7	58
312	Visible Surface Plasmon Modes in Single Bi2Te3 Nanoplate. *Nano Letters*, **2015**, 15, 8331-5	11.5	57

311	Manipulation of Orbital-Angular-Momentum Spectrum Using Pinhole Plates. *Physical Review Applied*, **2019**, 12,	4.3	57
310	Effects of edge on graphene plasmons as revealed by infrared nanoimaging. *Light: Science and Applications*, **2017**, 6, e16204	16.7	56
309	Continuous angle-tunable birefringence with freeform metasurfaces for arbitrary polarization conversion. *Science Advances*, **2020**, 6, eaba3367	14.3	56
308	Resonance-enhanced three-photon luminesce via lead halide perovskite metasurfaces for optical encoding. *Nature Communications*, **2019**, 10, 2085	17.4	55
307	Wavenumber-Splitting Metasurfaces Achieve Multichannel Diffusive Invisibility. *Advanced Optical Materials*, **2018**, 6, 1800010	8.1	55
306	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. *Nanoscale*, **2016**, 8, 2227-33	7.7	54
305	Chirality-assisted lateral momentum transfer for bidirectional enantioselective separation. *Light: Science and Applications*, **2020**, 9, 62	16.7	54
304	Laser-Splashed Three-Dimensional Plasmonic Nanovolcanoes for Steganography in Angular Anisotropy. *ACS Nano*, **2018**, 12, 9233-9239	16.7	54
303	Manipulating DC currents with bilayer bulk natural materials. *Advanced Materials*, **2014**, 26, 3478-83	24	53
302	Reversible Three-Dimensional Focusing of Visible Light with Ultrathin Plasmonic Flat Lens. *Advanced Optical Materials*, **2013**, 1, 517-521	8.1	53
301	Actively Tunable Visible Surface Plasmons in Bi2 Te3 and their Energy-Harvesting Applications. *Advanced Materials*, **2016**, 28, 3138-44	24	53
300	Quantum plasmonics get applied. *Progress in Quantum Electronics*, **2019**, 65, 1-20	9.1	50
299	Manipulating Steady Heat Conduction by Sensu-shaped Thermal Metamaterials. *Scientific Reports*, **2015**, 5, 10242	4.9	50
298	Dielectric multi-momentum meta-transformer in the visible. *Nature Communications*, **2019**, 10, 4789	17.4	50
297	Polarization-Controlled Dual-Programmable Metasurfaces. *Advanced Science*, **2020**, 7, 1903382	13.6	50
296	Optically sizing single atmospheric particulates with a 10-nm resolution using a strong evanescent field. *Light: Science and Applications*, **2018**, 7, 18003	16.7	50
295	Chiral nihility effects on energy flow in chiral materials. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2008**, 25, 55-63	1.8	49
294	Backward waves in magnetoelectrically chiral media: Propagation, impedance, and negative refraction. *Physical Review B*, **2007**, 75,	3.3	49

293	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. *Advanced Optical Materials*, **2020**, 8, 1901393	8.1	49
292	Flat Helical Nanosieves. *Advanced Functional Materials*, **2016**, 26, 5255-5262	15.6	48
291	Hyperbolic metamaterials: fusing artificial structures to natural 2D materials. *ELight*, **2022**, 2,		48
290	Thermal camouflaging metamaterials. *Materials Today*, **2021**, 45, 120-141	21.8	48
289	0.2 Thick Adaptive Retroreflector Made of Spin-Locked Metasurface. *Advanced Materials*, **2018**, 30, e1802721	24	47
288	Compact single-shot metalens depth sensors inspired by eyes of jumping spiders. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22959-22965	11.5	47
287	Optical pulling forces and their applications. *Advances in Optics and Photonics*, **2020**, 12, 288	16.7	47
286	Adaptive two-step calibration for high-resolution and wide-swath SAR imaging. *IET Radar, Sonar and Navigation*, **2010**, 4, 548	1.4	46
285	Modified Spherical Wave Functions With Anisotropy Ratio: Application to the Analysis of Scattering by Multilayered Anisotropic Shells. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 3515-3523	4.9	46
284	Superoscillation: from physics to optical applications. *Light: Science and Applications*, **2019**, 8, 56	16.7	45
283	Unveiling the correlation between nanometer-thick molecular monolayer sensitivity and near-field enhancement and localization in coupled plasmonic oligomers. *ACS Nano*, **2014**, 8, 9188-98	16.7	45
282	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1332-1347	4.9	44
281	Creation of a longitudinally polarized subwavelength hotspot with an ultra-thin planar lens: vectorial RayleighSommerfeld method. *Laser Physics Letters*, **2013**, 10, 065004	1.5	44
280	Adaptive waveguide bends with homogeneous, nonmagnetic, and isotropic materials. *Optics Letters*, **2011**, 36, 181-3	3	44
279	Electromagnetic interaction of arbitrary radial-dependent anisotropic spheres and improved invisibility for nonlinear-transformation-based cloaks. *Physical Review E*, **2009**, 80, 016604	2.4	44
278	Stepwise-Nanocavity-Assisted Transmissive Color Filter Array Microprints. *Research*, **2018**, 2018, 8109054	7.8	44
277	Graphene-based photonic crystal to steer giant Faraday rotation. *Applied Physics Letters*, **2012**, 100, 241106	3.4	43
276	Spherical cloaking using nonlinear transformations for improved segmentation into concentric isotropic coatings. *Optics Express*, **2009**, 17, 13467-78	3.3	43

275	Breaking Anti-PT Symmetry by Spinning a Resonator. *Nano Letters*, **2020**, 20, 7594-7599	11.5	43
274	Tunable Metasurfaces: Kerker-Conditioned Dynamic Cryptographic Nanoprints (Advanced Optical Materials 4/2019). *Advanced Optical Materials*, **2019**, 7, 1970016	8.1	42
273	Artificial Metaphotonics Born Naturally in Two Dimensions. *Chemical Reviews*, **2020**, 120, 6197-6246	68.1	42
272	Hyperbolic Phonon Polaritons in Suspended Hexagonal Boron Nitride. *Nano Letters*, **2019**, 19, 1009-1014	11.5	42
271	Meta-optics achieves RGB-achromatic focusing for virtual reality. *Science Advances*, **2021**, 7,	14.3	42
270	Engineered disorder in photonics. *Nature Reviews Materials*, **2021**, 6, 226-243	73.3	41
269	Localized Self-Growth of Reconfigurable Architectures Induced by a Femtosecond Laser on a Shape-Memory Polymer. *Advanced Materials*, **2018**, 30, e1803072	24	41
268	Doublet Thermal Metadevice. *Physical Review Applied*, **2019**, 11,	4.3	40
267	Unveiling the correlation between non-diffracting tractor beam and its singularity in Poynting vector. *Laser and Photonics Reviews*, **2015**, 9, 75-82	8.3	40
266	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. *Advanced Optical Materials*, **2014**, 2, 1193-1198	8.1	40
265	Anomalous behavior of nearly-entire visible band manipulated with degenerated image dipole array. *Nanoscale*, **2014**, 6, 12303-9	7.7	39
264	Monolayer graphene photonic metastructures: Giant Faraday rotation and nearly perfect transmission. *Physical Review B*, **2013**, 88,	3.3	39
263	Homogenization of 3-D Periodic Bianisotropic Metamaterials. *IEEE Transactions on Microwave Theory and Techniques*, **2006**, 54, 3893-3898	4.1	39
262	Polarization-insensitive 3D conformal-skin metasurface cloak. *Light: Science and Applications*, **2021**, 10, 75	16.7	39
261	Vortex generation reaches a new plateau. *Science*, **2017**, 357, 645	33.3	38
260	Routes to left-handed materials by magnetoelectric couplings. *Physical Review B*, **2007**, 75,	3.3	38
259	Zero-bias mid-infrared graphene photodetectors with bulk photoresponse and calibration-free polarization detection. *Nature Communications*, **2020**, 11, 6404	17.4	37
258	Ultrasonic super-oscillation wave-packets with an acoustic meta-lens. *Nature Communications*, **2019**, 10, 3411	17.4	37

257	Achieving Invisibility of Homogeneous Cylindrically Anisotropic Cylinders. *Plasmonics*, **2010**, 5, 251-258	2.4	37
256	Three-dimensional supercritical resolved light-induced magnetic holography. *Science Advances*, **2017**, 3, e1701398	14.3	36
255	Arbitrary and Independent Polarization Control In Situ via a Single Metasurface. *Advanced Optical Materials*, **2018**, 6, 1800728	8.1	36
254	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. *Optics Letters*, **2014**, 39, 630-3	3	36
253	Design of an ultrathin broadband transparent and high-conductive screen using plasmonic nanostructures. *Optics Letters*, **2012**, 37, 4955-7	3	36
252	Resonant light scattering by small coated nonmagnetic spheres: magnetic resonances, negative refraction, and prediction. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, 1728	1.7	36
251	Transformation Laplacian metamaterials: recent advances in manipulating thermal and dc fields. *Journal of Optics (United Kingdom)*, **2016**, 18, 044003	1.7	36
250	Self-Induced Backaction Optical Pulling Force. *Physical Review Letters*, **2018**, 120, 123901	7.4	35
249	Theoretical realization of robust broadband transparency in ultrathin seamless nanostructures by dual blackbodies for near infrared light. *Nanoscale*, **2013**, 5, 3373-9	7.7	35
248	Photonic tractor beams: a review. *Advanced Photonics*, **2019**, 1, 1	8.1	35
247	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. *Nature Communications*, **2020**, 11, 3663	17.4	35
246	Kerker-Conditioned Dynamic Cryptographic Nanoprints. *Advanced Optical Materials*, **2018**, 7, 1801070	8.1	35
245	Living Nanospear for Near-Field Optical Probing. *ACS Nano*, **2018**, 12, 10703-10711	16.7	35
244	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. *ACS Photonics*, **2016**, 3, 1986-1992	6.3	34
243	Quo Vadis, Metasurfaces?. *Nano Letters*, **2021**, 21, 5461-5474	11.5	34
242	From Lingering to Rift: Metasurface Decoupling for Near- and Far-Field Functionalization. *Advanced Materials*, **2021**, 33, e2007507	24	33
241	Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. *ELight*, **2021**, 1,		33
240	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. *Nature Communications*, **2020**, 11, 6086	17.4	32

239	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS. *ACS Nano*, **2020**, 14, 4636-4645	16.7	32
238	Engineering light-matter interaction for emerging optical manipulation applications. *Nanophotonics* , **2014**, 3, 181-201	6.3	32
237	Micro-Doppler feature extraction for wideband imaging radar based on complex image orthogonal matching pursuit decomposition. *IET Radar, Sonar and Navigation*, **2013**, 7, 914-924	1.4	32
236	A Single Noninterleaved Metasurface for High-Capacity and Flexible Mode Multiplexing of Higher-Order Poincar Sphere Beams. *Advanced Materials*, **2020**, 32, e1903983	24	32
235	Ghost spintronic THz-emitter-array microscope. *Light: Science and Applications*, **2020**, 9, 99	16.7	31
234	Experimental verification of isotropic radiation from a coherent dipole source via electric-field-driven LC resonator metamaterials. *Physical Review Letters*, **2013**, 111, 133901	7.4	31
233	Motion Parameter Estimation in the SAR System With Low PRF Sampling. *IEEE Geoscience and Remote Sensing Letters*, **2010**, 7, 450-454	4.1	31
232	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. *Light: Science and Applications*, **2020**, 9, 137	16.7	30
231	Nanophotonic Array-Induced Dynamic Behavior for Label-Free Shape-Selective Bacteria Sieving. *ACS Nano*, **2019**, 13, 12070-12080	16.7	29
230	Radiation pressure of active dispersive chiral slabs. *Optics Express*, **2015**, 23, 16546-53	3.3	29
229	Large-Area Graphene Nanodot Array for Plasmon-Enhanced Infrared Spectroscopy. *Small*, **2016**, 12, 1302-8	11	29
228	Exact Solution to Electromagnetic Scattering by an Impedance Sphere Coated With a Uniaxial Anisotropic Layer. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 572-576	4.9	29
227	Enhanced scattering efficiencies in spherical particles with weakly dissipating anisotropic materials. *Applied Physics A: Materials Science and Processing*, **2008**, 92, 773-776	2.6	29
226	Hybridized Hyperbolic Surface Phonon Polaritons at MoO and Polar Dielectric Interfaces. *Nano Letters*, **2021**, 21, 3112-3119	11.5	29
225	Tailoring Light with Layered and Moir Metasurfaces. *Trends in Chemistry*, **2021**, 3, 342-358	14.8	29
224	Controlling Lateral Fano Interference Optical Force with Au e2Sb2Te5 Hybrid Nanostructure. *ACS Photonics*, **2016**, 3, 1934-1942	6.3	28
223	Diameter-bandwidth product limitation of isolated-object cloaking. *Physical Review A*, **2012**, 86,	2.6	28
222	Transformation-based spherical cloaks designed by an implicit transformation-independent method: theory and optimization. *New Journal of Physics*, **2009**, 11, 113001	2.9	28

221	Peculiarities in light scattering by spherical particles with radial anisotropy. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2008**, 25, 1623-8	1.8	28
220	Spin-Encoded Wavelength-Direction Multitasking Janus Metasurfaces. *Advanced Optical Materials*, **2021**, 9, 2100190	8.1	28
219	Toward the capacity limit of 2D planar Jones matrix with a single-layer metasurface. *Science Advances*, **2021**, 7,	14.3	28
218	Interface nano-optics with van der Waals polaritons. *Nature*, **2021**, 597, 187-195	50.4	28
217	HvAKT2 and HvHAK1 confer drought tolerance in barley through enhanced leaf mesophyll H homoeostasis. *Plant Biotechnology Journal*, **2020**, 18, 1683-1696	11.6	27
216	Gigantic vortical differential scattering as a monochromatic probe for multiscale chiral structures. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	27
215	A Thermal Radiation Modulation Platform by Emissivity Engineering with Graded Metal-Insulator Transition. *Advanced Materials*, **2020**, 32, e1907071	24	27
214	Compact Aberration-Corrected Spectrometers in the Visible Using Dispersion-Tailored Metasurfaces. *Advanced Optical Materials*, **2019**, 7, 1801144	8.1	27
213	Dynamically configurable hybridization of plasmon modes in nanoring dimer arrays. *Nanoscale*, **2015**, 7, 12018-22	7.7	26
212	Exchange Bias in van der Waals CrCl/FeGeTe Heterostructures. *Nano Letters*, **2020**, 20, 5030-5035	11.5	26
211	Multiband Switchable Terahertz Quarter-Wave Plates via Phase-Change Metasurfaces. *IEEE Photonics Journal*, **2016**, 8, 1-8	1.8	26
210	Homogeneous and isotropic bends to tunnel waves through multiple different/equal waveguides along arbitrary directions. *Optics Express*, **2011**, 19, 13020-30	3.3	26
209	Distributed external cloak without embedded antiobjects. *Optics Letters*, **2010**, 35, 2642-4	3	26
208	Elliptically shaped ultra-wideband patch antenna with band-notch features. *Microwave and Optical Technology Letters*, **2008**, 50, 736-738	1.2	26
207	Integrated Molar Chiral Sensing Based on High- Metasurface. *Nano Letters*, **2020**, 20, 8696-8703	11.5	26
206	Steering valley-polarized emission of monolayer MoS sandwiched in plasmonic antennas. *Science Advances*, **2020**, 6, eaao0019	14.3	25
205	Transparent coupled membrane metamaterials with simultaneous microwave absorption and sound reduction. *Optics Express*, **2018**, 26, 22916-22925	3.3	25
204	Full Modeling, Loss Reduction, and Mutual Coupling Control of Spoof Surface Plasmon-Based Meander Slow Wave Transmission Lines. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 3764-3772	4.1	25

203	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. *Research*, **2020**, 2020, 9085782	7.8	25
202	Phase-to-pattern inverse design paradigm for fast realization of functional metasurfaces via transfer learning. *Nature Communications*, **2021**, 12, 2974	17.4	25
201	Twisted Surface Plasmons with Spin-Controlled Gold Surfaces. *Advanced Optical Materials*, **2019**, 7, 1801660	8.0	25
200	Ion Write Microthermotics: Programing Thermal Metamaterials at the Microscale. *Nano Letters*, **2019**, 19, 3830-3837	11.5	24
199	Versatile total angular momentum generation using cascaded J-plates. *Optics Express*, **2019**, 27, 7469-7484	3.5	24
198	Enabling low amounts of YAG:Ce(3+) to convert blue into white light with plasmonic Au nanoparticles. *Nanoscale*, **2015**, 7, 10350-6	7.7	24
197	Optical Potential-Well Array for High-Selectivity, Massive Trapping and Sorting at Nanoscale. *Nano Letters*, **2020**, 20, 5193-5200	11.5	24
196	Wavefront manipulation by acoustic metasurfaces: from physics and applications. *Nanophotonics*, **2018**, 7, 1191-1205	6.3	24
195	Complex Inverse Design of Meta-optics by Segmented Hierarchical Evolutionary Algorithm. *ACS Nano*, **2019**, 13, 821-829	16.7	24
194	Giant Helical Dichroism of Single Chiral Nanostructures with Photonic Orbital Angular Momentum. *ACS Nano*, **2021**, 15, 2893-2900	16.7	24
193	Pulling extremely anisotropic lossy particles using light without intensity gradient. *Physical Review A*, **2014**, 90,	2.6	23
192	Isotropic nonmagnetic flat cloaks degenerated from homogeneous anisotropic trapeziform cloaks. *Optics Express*, **2010**, 18, 13038-43	3.3	23
191	Multidimensional phase singularities in nanophotonics. *Science*, **2021**, 374, eabj0039	33.3	23
190	Perturbative countersurveillance metaoptics with compound nanosieves. *Light: Science and Applications*, **2019**, 8, 101	16.7	23
189	Metafluidic metamaterial: a review. *Advances in Physics: X*, **2018**, 3, 1417055	5.1	22
188	An arbitrarily shaped cloak with nonsingular and homogeneous parameters designed using a twofold transformation. *Journal of Optics (United Kingdom)*, **2010**, 12, 095103	1.7	22
187	Unambiguous Reconstruction and High-Resolution Imaging for Multiple-Channel SAR and Airborne Experiment Results. *IEEE Geoscience and Remote Sensing Letters*, **2009**, 6, 102-106	4.1	22
186	Synthetic helical dichroism for six-dimensional optical orbital angular momentum multiplexing. *Nature Photonics*,	33.9	22

185	Enhancing the modal purity of orbital angular momentum photons. *APL Photonics*, **2020**, 5, 070802	5.2	22
184	Tunable analog thermal material. *Nature Communications*, **2020**, 11, 6028	17.4	22
183	Floating solid-state thin films with dynamic structural colour. *Nature Nanotechnology*, **2021**, 16, 795-801	28.7	22
182	Mid-infrared semimetal polarization detectors with configurable polarity transition. *Nature Photonics*, **2021**, 15, 614-621	33.9	22
181	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. *Nature*, **2021**, 596, 362-366	50.4	22
180	Fano resonant Ge2Sb2Te5 nanoparticles realize switchable lateral optical force. *Nanoscale*, **2016**, 8, 5657-66	7.7	21
179	Artificial intelligence: A powerful paradigm for scientific research. *Innovation(China)*, **2021**, 2, 100179	17.8	21
178	. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 229-238	4.9	21
177	Optically induced atomic lattice with tunable near-field and far-field diffraction patterns. *Photonics Research*, **2017**, 5, 676	6	20
176	Field Representations in General Gyrotropic Media in Spherical Coordinates. *IEEE Antennas and Wireless Propagation Letters*, **2005**, 4, 467-470	3.8	20
175	Anomalous Shift Behaviors in the Photoluminescence of Dolmen-Like Plasmonic Nanostructures. *ACS Photonics*, **2016**, 3, 979-984	6.3	20
174	Ultrasensitive Transmissive Infrared Spectroscopy via Loss Engineering of Metallic Nanoantennas for Compact Devices. *ACS Applied Materials & Interfaces*, **2019**, 11, 47270-47278	9.5	20
173	Off-Axis Holography with Uniform Illumination via 3D Printed Diffractive Optical Elements. *Advanced Optical Materials*, **2019**, 7, 1900068	8.1	19
172	Selective excitation of resonances in gammadion metamaterials for terahertz wave manipulation. *Science China: Physics, Mechanics and Astronomy*, **2015**, 58, 1	3.6	19
171	Simulation of full responses of a triaxial induction tool in a homogeneous biaxial anisotropic formation. *Geophysics*, **2010**, 75, E101-E114	3.1	19
170	Nearly lattice-matched molybdenum disulfide/gallium nitride heterostructure enabling high-performance phototransistors. *Photonics Research*, **2019**, 7, 311	6	19
169	Deuterogenic Plasmonic Vortices. *Nano Letters*, **2020**, 20, 6774-6779	11.5	19
168	Metasurfaces for bioelectronics and healthcare. *Nature Electronics*, **2021**, 4, 382-391	28.4	19

167	Gate-Programmable Electro-Optical Addressing Array of Graphene-Coated Nanowires with Sub-10 nm Resolution. *ACS Photonics*, **2016**, 3, 1847-1853	6.3	19
166	3D Printed Meta-Helmet for Wide-Angle Thermal Camouflages. *Advanced Functional Materials*, **2020**, 30, 2002061	15.6	19
165	Nanoscale Lamb wave-driven motors in nonliquid environments. *Science Advances*, **2019**, 5, eaau8271	14.3	18
164	Extended Mie Theory for a Gyrotropic-Coated Conducting Sphere: An Analytical Approach. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 4364-4368	4.9	18
163	Point-Source Geometric Metasurface Holography. *Nano Letters*, **2021**, 21, 2332-2338	11.5	18
162	Cascade domino lithography for extreme photon squeezing. *Materials Today*, **2020**, 39, 89-97	21.8	18
161	A Continuously Tunable Solid-Like Convective Thermal Metadevice on the Reciprocal Line. *Advanced Materials*, **2020**, 32, e2003823	24	18
160	Robust Optical-Levitation-Based Metrology of Nanoparticle's Position and Mass. *Physical Review Letters*, **2020**, 124, 223603	7.4	17
159	Effective medium theory for thermal scattering off rotating structures. *Optics Express*, **2020**, 28, 25894-25907	3.3	17
158	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. *Nano Letters*, **2020**, 20, 7811-7818	11.5	17
157	Shaping 3D Path of Electromagnetic Waves Using Gradient-Refractive-Index Metamaterials. *Advanced Science*, **2016**, 3, 1600022	13.6	17
156	Multipolar-interference-assisted terahertz waveplates via all-dielectric metamaterials. *Applied Physics Letters*, **2018**, 113, 201103	3.4	17
155	Gold nanoparticle mediated graphene plasmon for broadband enhanced infrared spectroscopy. *Nanotechnology*, **2017**, 28, 264001	3.4	16
154	Direct excitation of dark plasmonic resonances under visible light at normal incidence. *Nanoscale*, **2014**, 6, 2106-11	7.7	16
153	An Optically Controllable Transformation-dc Illusion Device. *Advanced Materials*, **2015**, 27, 4628-33	24	16
152	Chirality-assisted three-dimensional acoustic Floquet lattices. *Physical Review Research*, **2019**, 1,	3.9	16
151	Transmission-Reflection-Selective Metasurface and Its Application to RCS Reduction of High-Gain Reflector Antenna. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1426-1435	4.9	16
150	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI. *Science Advances*, **2020**, 6,	14.3	16

149	Smart Doppler Cloak Operating in Broad Band and Full Polarizations. *Advanced Materials*, **2021**, 33, e2007966	27.4	16
148	Coupling effect of spiral-shaped terahertz metamaterials for tunable electromagnetic response. *Applied Physics A: Materials Science and Processing*, **2014**, 115, 25-29	2.6	15
147	Infrared Nanoimaging Reveals the Surface Metallic Plasmons in Topological Insulator. *ACS Photonics*, **2017**, 4, 3055-3062	6.3	15
146	Broadband spin-controlled focusing via logarithmic-spiral nanoslits of varying width. *Laser and Photonics Reviews*, **2015**, 9, 674-681	8.3	15
145	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. *Laser and Photonics Reviews*, **2014**, 8, 743-749	8.3	15
144	Inverse design mechanism of cylindrical cloaks without knowledge of the required coordinate transformation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2010**, 27, 1079-82	1.8	15
143	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. *Physical Review Letters*, **2020**, 125, 043901	7.4	15
142	Rotation-Selective Moir Magnification of Structural Color Pattern Arrays. *ACS Nano*, **2019**, 13, 14138-14147	14.7	15
141	Optical Bound States in Continuum in MoS-Based Metasurface for Directional Light Emission. *Nano Letters*, **2021**, 21, 967-972	11.5	15
140	Acoustic cloaking by extraordinary sound transmission. *Journal of Applied Physics*, **2015**, 117, 214507	2.5	14
139	Large enhancement of thermoelectric performance in MoS/-BN heterostructure due to vacancy-induced band hybridization. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13929-13936	11.5	14
138	Fano Resonance in Artificial Photonic Molecules. *Advanced Optical Materials*, **2020**, 8, 1902153	8.1	14
137	Reconfigurable symmetry-broken laser in a symmetric microcavity. *Nature Communications*, **2020**, 11, 1136	17.4	14
136	Efficient and Tunable Photoinduced Honeycomb Lattice in an Atomic Ensemble. *Laser and Photonics Reviews*, **2018**, 12, 1800050	8.3	14
135	Tracing optical force fields within graded-index media. *New Journal of Physics*, **2014**, 16, 053035	2.9	14
134	Properties of Faraday chiral media: Green dyadics and negative refraction. *Physical Review B*, **2006**, 74,	3.3	14
133	Multidimensional nanoscopic chiroptics. *Nature Reviews Physics*,	23.6	14
132	Twistronics for photons: opinion. *Optical Materials Express*, **2021**, 11, 1377	2.6	14

131	Enhanced light-matter interactions at photonic magic-angle topological transitions. *Applied Physics Letters*, **2021**, 118, 211101	3.4	14
130	Evanescent vortex: Optical subwavelength spanner. *Applied Physics Letters*, **2016**, 109, 191107	3.4	14
129	Highly efficient plasmon excitation in graphene-Bi_2Te_3 heterostructure. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 1842	1.7	14
128	Structured Semiconductor Interfaces: Active Functionality on Light Manipulation. *Proceedings of the IEEE*, **2020**, 108, 772-794	14.3	14
127	Millikelvin-resolved ambient thermography. *Science Advances*, **2020**, 6,	14.3	13
126	Photonic Nanojet Mediated Backaction of Dielectric Microparticles. *ACS Photonics*, **2020**, 7, 1483-1490	6.3	13
125	Kerker-Type Intensity-Gradient Force of Light. *Laser and Photonics Reviews*, **2020**, 14, 1900265	8.3	13
124	Momentum-Topology-Induced Optical Pulling Force. *Physical Review Letters*, **2020**, 124, 143901	7.4	13
123	The general two-dimensional open-closed cloak with tunable inherent discontinuity and directional communication. *Applied Physics Letters*, **2010**, 97, 124104	3.4	13
122	Time–frequency imaging algorithm for high-speed spinning targets in two dimensions. *IET Radar, Sonar and Navigation*, **2010**, 4, 806	1.4	13
121	Creating Rigorous Open Cloaks. *Journal of Electromagnetic Waves and Applications*, **2010**, 24, 1839-1847	1.3	13
120	Patterned resist on flat silver achieving saturated plasmonic colors with sub-20-nm spectral linewidth. *Materials Today*, **2020**, 35, 99-105	21.8	13
119	Single-Layer Aberration-Compensated Flat Lens for Robust Wide-Angle Imaging. *Laser and Photonics Reviews*, **2020**, 14, 2000017	8.3	12
118	Tailoring photonic forces on a magnetodielectric nanoparticle with a fluctuating optical source. *Physical Review A*, **2013**, 88,	2.6	12
117	Scattering properties of electromagnetic waves in a multilayered cylinder filled with double negative and positive materials. *Radio Science*, **2007**, 42, n/a-n/a	1.4	12
116	On the constitutive relations of G-chiral media and the possibility to realize negative-index media. *Microwave and Optical Technology Letters*, **2006**, 48, 2534-2538	1.2	12
115	Steering Room-Temperature Plexcitonic Strong Coupling: A Diexcitonic Perspective. *Nano Letters*, **2021**, 21, 8979-8986	11.5	12
114	Diffusive nonreciprocity and thermal diode. *Physical Review B*, **2021**, 103,	3.3	12

113	Robust Control of a Multifrequency Metamaterial Cloak Featuring Intrinsic Harmonic Selection. *Physical Review Applied*, **2018**, 10,	4.3	12
112	Interplay of Optical Force and Ray-Optic Behavior between Luneburg Lenses. *ACS Photonics*, **2015**, 2, 1384-1390	6.3	11
111	3D-Printed Curved Metasurface with Multifunctional Wavefronts. *Advanced Optical Materials*, **2020**, 8, 2000129	8.1	11
110	Photorealistic rendering of a graded negative-index metamaterial magnifier. *New Journal of Physics* , **2012**, 14, 033024	2.9	11
109	High-Order Exceptional Points in Diffusive Systems: Robust APT Symmetry 2 Against Perturbation and Phase Oscillation at APT Symmetry Breaking. *ES Energy & Environments*, **2019**,	2.9	11
108	Hamiltonian Hopping for Efficient Chiral Mode Switching in Encircling Exceptional Points. *Physical Review Letters*, **2020**, 125, 187403	7.4	11
107	NON-HERMITIAN ELECTROMAGNETIC METASURFACES AT EXCEPTIONAL POINTS (INVITED REVIEW). *Progress in Electromagnetics Research*, **2021**, 171, 1-20	3.8	11
106	Phase modulated monolayer supercritical lens. *Nature Communications*, **2021**, 12, 32	17.4	11
105	Focusing of Tandem Bistatic-Configuration Data With Range Migration Algorithm. *IEEE Geoscience and Remote Sensing Letters*, **2011**, 8, 88-92	4.1	10
104	Fano resonance of three-dimensional spiral photonic crystals: Paradoxical transmission and polarization gap. *Applied Physics Letters*, **2011**, 98, 081116	3.4	10
103	Hybrid shaped ultra-wideband antenna. *Microwave and Optical Technology Letters*, **2007**, 49, 2412-2415	1.2	10
102	Electromagnetic Scattering Properties in a Multilayered Metamaterial Cylinder. *IEICE Transactions on Communications*, **2007**, E90-B, 2423-2429	0.5	10
101	One-step green conversion of benzyl bromide to aldehydes on NaOH-modified g-C3N4 with dioxygen under LED visible light. *Catalysis Science and Technology*, **2019**, 9, 3270-3278	5.5	9
100	Foliar application of betaine improves water-deficit stress tolerance in barley (Hordeum vulgare L.). *Plant Growth Regulation*, **2019**, 89, 109-118	3.2	9
99	Monolayer Conveyor for Stably Trapping and Transporting Sub-1´nm Particles. *Laser and Photonics Reviews*, **2020**, 14, 2000030	8.3	9
98	Rigorous Derivation and Fast Solution of Spatial-Domain Green's Functions for Uniaxial Anisotropic Multilayers Using Modified Fast Hankel Transform Method. *IEEE Transactions on Microwave Theory and Techniques*, **2012**, 60, 205-217	4.1	9
97	Pulling cylindrical particles using a soft-nonparaxial tractor beam. *Scientific Reports*, **2017**, 7, 652	4.9	9
96	Conjugate gradient method for phase retrieval based on the Wirtinger derivative. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2017**, 34, 708-712	1.8	9

95	GENERATION OF OPTICAL VORTEX BEAMS BY COMPACT STRUCTURES. *Journal of Molecular and Engineering Materials*, **2014**, 02, 1440013	1.3	9
94	On-chip trans-dimensional plasmonic router. *Nanophotonics*, **2020**, 9, 3357-3365	6.3	9
93	Arbitrary cylindrical vector beam generation enabled by polarization-selective Gouy phase shifter. *Photonics Research*, **2021**, 9, 1048	6	9
92	Localized surface plasmon resonance in graphene nanomesh with Au nanostructures. *Applied Physics Letters*, **2016**, 109, 041106	3.4	9
91	Schr□dinger's red pixel by quasi-bound-states-in-the-continuum.. *Science Advances*, **2022**, 8, eabm4512	14.3	9
90	A metasurface-based light-to-microwave transmitter for hybrid wireless communications.. *Light: Science and Applications*, **2022**, 11, 126	16.7	9
89	Loss-Assisted Metasurface at an Exceptional Point. *ACS Photonics*, **2020**, 7, 3321-3327	6.3	8
88	Optofluidic Microengine in A Dynamic Flow Environment via Self-Induced Back-Action. *ACS Photonics*, **2020**, 7, 1500-1507	6.3	8
87	Two-Dimensional Spectrum Matched Filter Banks for High-Speed Spinning-Target Three-Dimensional ISAR Imaging. *IEEE Geoscience and Remote Sensing Letters*, **2009**, 6, 368-372	4.1	8
86	Eigenfunctional representation of dyadic Green's functions in multilayered gyrotropic chiral media. *Journal of Physics A: Mathematical and Theoretical*, **2007**, 40, 5751-5766	2	8
85	Robustly printable freeform thermal metamaterials. *Nature Communications*, **2021**, 12, 7228	17.4	8
84	High-resolution light field prints by nanoscale 3D printing. *Nature Communications*, **2021**, 12, 3728	17.4	8
83	Single-layer spatial analog meta-processor for imaging processing.. *Nature Communications*, **2022**, 13, 2188	17.4	8
82	Response of Tibetan Wild Barley Genotypes to Drought Stress and Identification of Quantitative Trait Loci by Genome-Wide Association Analysis. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	7
81	Physical mechanisms for tuning the nonlinear effects in photonic crystals. *Optics Express*, **2015**, 23, 19885-90	3.3	7
80	Reconfigurable Photon Sources Based on Quantum Plexcitonic Systems. *Nano Letters*, **2020**, 20, 4645-4652	11.25	7
79	Investigating the dynamics of excitons in monolayer WSe before and after organic super acid treatment. *Nanoscale*, **2018**, 10, 9346-9352	7.7	7
78	Intrinsically shaping the focal behavior with multi-ring Bessel-Gaussian beam. *Applied Physics Letters*, **2017**, 111, 031103	3.4	7

77	Mie series for electromagnetic scattering of chiral metamaterials sphere. *Journal of Systems Engineering and Electronics*, **2011**, 22, 885-891	1.3	7
76	Comment on Negative refractive index in gyrotropically magnetoelectric media *Physical Review B* , **2007**, 75,	3.3	7
75	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. *Journal of Nanophotonics*, **2020**, 14, 1	1.1	7
74	Reconfiguring Colors of Single Relief Structures by Directional Stretching. *Advanced Materials*, **2021** , e2108128	24	7
73	Optical Fireworks Based on Multifocal Three-Dimensional Color Prints. *ACS Nano*, **2021**, 15, 10185-10193	16.7	7
72	Plasmonic nanoparticle-film-assisted photoelectrochemical catalysis across the entire visible-NIR region. *Nanoscale*, **2019**, 11, 23058-23064	7.7	7
71	Infrared metasurface-enabled compact polarization nanodevices. *Materials Today*, **2021**, 50, 499-499	21.8	7
70	Configurable Phase Transitions in a Topological Thermal Material. *Physical Review Letters*, **2021**, 127, 105901	7.4	7
69	Electromagnetic metasurfaces: from concept to applications. *Science Bulletin*, **2019**, 64, 791-792	10.6	6
68	Electromagnetic Scattering by a Gyrotropic-Coated Conducting Sphere Illuminated From Arbitrary Spatial Angles. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3381-3386	4.9	6
67	Experimental research of unsupervised Cameron/maximum-likelihood classification method for fully polarimetric synthetic aperture radar data. *IET Radar, Sonar and Navigation*, **2010**, 4, 85	1.4	6
66	Evolution and Nonreciprocity of Loss-Induced Topological Phase Singularity Pairs.. *Physical Review Letters*, **2021**, 127, 266101	7.4	6
65	Phase and Polarization Modulations Using Radiation-Type Metasurfaces. *Advanced Optical Materials* , **2021**, 9, 2100159	8.1	6
64	Efficient and Tunable Reflection of Phonon Polaritons at Built-In Intercalation Interfaces. *Advanced Materials*, **2021**, 33, e2008070	24	6
63	Path-Dependent Thermal Metadevice beyond Janus Functionalities. *Advanced Materials*, **2021**, 33, e2003084	24	6
62	Many-particle induced band renormalization processes in few- and mono-layer MoS. *Nanotechnology*, **2021**, 32, 135208	3.4	6
61	Can Weak Chirality Induce Strong Coupling between Resonant States?. *Physical Review Letters*, **2022**, 128, 146102	7.4	6
60	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals.. *Nano Letters*, **2022**,	11.5	6

59	Field-programmable silicon temporal cloak. *Nature Communications*, **2019**, 10, 2726	17.4	5
58	**2016**,		5
57	Switchable self-defocusing and focusing in nearly isotropic photonic crystals via enhanced inverse diffraction. *Physical Review A*, **2015**, 91,	2.6	5
56	Macroscopic broadband optical escalator with force-loaded transformation optics. *Optics Express*, **2013**, 21, 796-803	3.3	5
55	Gain-assisted transformation optics. *Optics Express*, **2011**, 19, 8610-5	3.3	5
54	Diffusive topological transport in spatiotemporal thermal lattices. *Nature Physics*,	16.2	5
53	Synchronization and temporal nonreciprocity of optical microresonators via spontaneous symmetry breaking. *Advanced Photonics*, **2019**, 1, 1	8.1	5
52	Supercritical focusing coherent anti-Stokes Raman scattering microscopy for high-resolution vibrational imaging. *Optics Letters*, **2018**, 43, 5615-5618	3	5
51	Nonlinearity-induced nanoparticle circumgyration at sub-diffraction scale. *Nature Communications*, **2021**, 12, 3722	17.4	5
50	Chiral plasmonics and enhanced chiral light-matter interactions. *Science China: Physics, Mechanics and Astronomy*, **2020**, 63, 1	3.6	5
49	Analysis of mid-infrared lasing in active random media. *Optics Express*, **2015**, 23, 12286-92	3.3	4
48	Light-programmable manipulation of DC field in Laplacian Meta-devices. *Scientific Reports*, **2018**, 8, 12208	4.9	4
47	Phase-preserved optical elevator. *Optics Express*, **2013**, 21, 6650-7	3.3	4
46	Full-wave analysis of extraordinary backscattering by a layered plasmonic nanosphere. *Journal of Applied Physics*, **2008**, 104, 034909	2.5	4
45	Reciprocity of thermal diffusion in time-modulated systems.. *Nature Communications*, **2022**, 13, 167	17.4	4
44	Dynamically tunable infrared grating based on graphene-enabled phase switching of a split ring resonator [Invited]. *Optical Materials Express*, **2019**, 9, 56	2.6	4
43	Near-Omnidirectional Broadband Metamaterial Absorber for TM-Polarized Wave Based on Radiation Pattern Synthesis. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	4
42	Chip-Scale Plasmonic Sum Frequency Generation. *IEEE Photonics Journal*, **2017**, 9, 1-8	1.8	3

41	Spectrum Manipulation for Sound with Effective Gauge Fields in Cascading Temporally Modulated Waveguides. *Physical Review Applied*, **2019**, 11,	4.3	3
40	Cloaking the magnons. *Physical Review B*, **2016**, 93,	3.3	3
39	Metaoptronic Multiplexed Interface for Probing Bioentity Behaviors. *Nano Letters*, **2021**, 21, 2681-2689	11.5	3
38	Digital Metasurfaces: Light-Controllable Digital Coding Metasurfaces (Adv. Sci. 11/2018). *Advanced Science*, **2018**, 5, 1870068	13.6	3
37	A reprogrammable multifunctional chalcogenide guided-wave lens. *Nanoscale*, **2018**, 10, 17053-17059	7.7	3
36	Diffusive Fizeau Drag in Spatiotemporal Thermal Metamaterials.. *Physical Review Letters*, **2022**, 128, 145901	7.4	3
35	Highly radiative symmetric plasmonic leaky wave antenna **2017**,		2
34	Design and modeling of low-loss symmetric slow-wave transmission lines **2015**,		2
33	Guide-wave Photonic Pulling Force Using One-way Photonic Chiral Edge States **2015**,		2
32	FINITE-BOUNDARY BOWTIE APERTURE ANTENNA FOR TRAPPING NANOPARTICLES. *Progress in Electromagnetics Research*, **2013**, 136, 17-27	3.8	2
31	Micro-motion feature extraction of target in inverse synthetic aperture radar imaging with sparse aperture. *Journal of Electromagnetic Waves and Applications*, **2013**, 27, 1841-1849	1.3	2
30	Miniaturized on-chip passive devices based on self-rolled-up SiNx nanomembrane inductive tube **2013**,		2
29	Exploiting design freedom in biaxial dielectrics to enable spatially overlapping optical instruments. *Scientific Reports*, **2013**, 3, 2055	4.9	2
28	SAR imaging and Doppler ambiguity removal with distributed microsatellite arrays. *International Journal of Remote Sensing*, **2010**, 31, 6441-6458	3.1	2
27	Focus on 2D material nanophotonics. *Nanotechnology*, **2019**, 30, 030201	3.4	2
26	What limits limits?. *National Science Review*, **2021**, 8, nwaa210	10.8	2
25	Wireless Magnetic Actuation with a Bistable Parity-Time-Symmetric Circuit. *Physical Review Applied*, **2021**, 15,	4.3	2
24	Observation of Anisotropic Magnetoresistance in Layered Nonmagnetic Semiconducting PdSe. *ACS Applied Materials & Interfaces*, **2021**, 13, 37527-37534	9.5	2

23	Passive ultra-conductive thermal metamaterials.. *Advanced Materials*, **2022**, e2200329	24	2
22	Real-time Self-adaptive Thermal Metasurface.. *Advanced Materials*, **2022**, e2201093	24	2
21	Heat transfer control using a thermal analogue of coherent perfect absorption.. *Nature Communications*, **2022**, 13, 2683	17.4	2
20	Scattering characteristics from conducting cylinder with reconstructing electromagnetic cloaking layers **2009**,		1
19	. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 240-244	4.9	1
18	Creating Rigorous Open Cloaks		1
17	Dynamics of Topological Polarization Singularity in Momentum Space. *Physical Review Letters*, **2021** , 127, 176101	7.4	1
16	Coexistence of Photoelectric Conversion and Storage in van der Waals Heterojunctions. *Physical Review Letters*, **2021**, 127, 217401	7.4	1
15	Zero chiral bulk modes in 3D Weyl metamaterials. *Science Bulletin*, **2019**, 64, 799-801	10.6	1
14	A phase-to-intensity strategy of angular velocity measurement based on photonic orbital angular momentum. *Nanophotonics*, **2021**,	6.3	1
13	Observation of Weyl exceptional rings in thermal diffusion.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2110018119	11.5	1
12	Three-dimensional ultrasound subwavelength arbitrary focusing with broadband sparse metalens. *Science China: Physics, Mechanics and Astronomy*, **2022**, 65, 1	3.6	1
11	Regulated Photon Transport in Chaotic Microcavities by Tailoring Phase Space.. *Physical Review Letters*, **2021**, 127, 273902	7.4	1
10	Programmable Controlling of Multiple Spatial Harmonics via a Nonlinearly-Phased Grating Metasurface. *Advanced Functional Materials*,2203120	15.6	1
9	A Modular Design of Continuously Tunable Full Color Plasmonic Pixels with Broken Rotational Symmetry. *Advanced Functional Materials*,2108437	15.6	0
8	Reply to: Reconsidering metasurface lasers. *Nature Photonics*, **2021**, 15, 339-340	33.9	0
7	Azimuth preprocessing for monostatic and bistatic spotlight synthetic aperture radar maging based on spectral analysis convolution. *Journal of Applied Remote Sensing*, **2009**, 3, 033565	1.4	
6	Sensitivity analysis of iterative adjoint technique for microstrip circuits optimization. *Microwave and Optical Technology Letters*, **2007**, 49, 607-609	1.2	

List of Publications

5	Generation of Optical Vortex Beams **2021**, 223-244	
4	. *URSI Radio Science Bulletin*, **2020**, 2020, 54-62	0.1
3	Editorial on special issue Metamaterials and Plasmonics in Asia *Nanophotonics*, **2020**, 9, 3045-3047	6.3
2	Ultrathin Metalens and Three-Dimensional Optical Holography Using Metasurfaces **2017**, 91-126	
1	Breaking the symmetry of polarizers. *Journal of Semiconductors*, **2022**, 43, 050401	2.3