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## Flat optics with designer metasurfaces

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1983	Comment on "Triple-band perfect metamaterial absorption, based on single cut-wire bar" [Appl. Phys. Lett. 106, 071105 (2015)]. <b>2015</b> , 107, 026101	14
1982	Diffractive optical elements made from photonic metamaterials. <b>2015</b> ,	
1981	Tailored surface birefringence by femtosecond laser assisted wet etching. <b>2015</b> , 23, 1428-37	15
1980	Metasurfaces based dual wavelength diffractive lenses. <b>2015</b> , 23, 3928-36	41

1979	Near-infrared quarter-waveplate with near-unity polarization conversion efficiency based on silicon nanowire array. <b>2015</b> , 23, 8929-38	8
1978	Near-field investigation of the effect of the array edge on the resonance of loop frequency selective surface elements at mid-infrared wavelengths. <b>2015</b> , 23, 10974-85	3
1977	Small divergence substrate emitting quantum cascade laser by subwavelength metallic grating. <b>2015</b> , 23, 11462-9	4
1976	Nanoslit-microcavity-based narrow band absorber for sensing applications. <b>2015</b> , 23, 20715-20	104
1975	Polarization selective beam shaping using nanoscale dielectric metasurfaces. <b>2015</b> , 23, 22611-8	66
1974	Dual-polarization plasmonic metasurface for nonlinear optics. <b>2015</b> , 40, 2874-7	16
1973	Highly efficient and ultra-broadband graphene oxide ultrathin lenses with three-dimensional subwavelength focusing. <b>2015</b> , 6, 8433	88
1972	Thin anisotropic metasurfaces for simultaneous light focusing and polarization manipulation. <b>2015</b> , 32, 318	46
1971	Polarization-multiplexed plasmonic phase generation with distributed nanoslits. <b>2015</b> , 23, 15598-607	29
1970	Plasmonic metagratings for simultaneous determination of Stokes parameters. <b>2015</b> , 2, 716	179
1969	Magnetic atoms: The makings of a Hund's metal. <b>2015</b> , 10, 914-5	3
1968	Aluminum Nanoantenna Complexes for Strong Coupling between Excitons and Localized Surface Plasmons. <b>2015</b> , 15, 6215-21	88
1967	Surface plasmon resonance based integrable micro spectrometer. <b>2015</b> , 106, 101106	6
1966	Absorption-induced scattering and surface plasmon out-coupling from absorber-coated plasmonic metasurfaces. <b>2015</b> , 6, 7899	37
1965	Broadband ultrathin optical absorber based on metal-dielectric nanocomposites. <b>2015</b> ,	
1964	Optical Second Harmonic Generation in Plasmonic Nanostructures: From Fundamental Principles to Advanced Applications. <b>2015</b> , 9, 10545-62	351
1963	Generation of Terahertz Surface Plasmon Polaritons Using Nondiffractive Bessel Beams with Orbital Angular Momentum. <b>2015</b> , 115, 163901	63
1962	Simultaneous and Complete Control of Light Polarization and Phase using High Contrast Transmitarrays. <b>2015</b> ,	

1961	Wavefront and Polarization Control with Metasurfaces. <b>2015</b> ,	1
1960	Broadband Hybrid Holographic Multiplexing with Geometric Metasurfaces. <b>2015</b> , 27, 6444-9	136
1959	Composite dielectric metasurfaces for phase control of vector field. <b>2015</b> , 40, 2453-6	16
1958	Liquid Crystal Tuning of All-dielectric Metasurfaces. <b>2015</b> ,	
1957	Planar spoof plasmonic ultra-wideband filter based on low-loss and compact terahertz waveguide corrugated with dumbbell grooves. <b>2015</b> , 54, 4529-33	49
1956	Truly achromatic optical metasurfaces: a filter circuit theory-based design. <b>2015</b> , 32, 2115	33
1955	Comparative Study of Second-Harmonic Generation from Epsilon-Near-Zero Indium Tin Oxide and Titanium Nitride Nanolayers Excited in the Near-Infrared Spectral Range. <b>2015</b> , 2, 1584-1591	103
1954	Broadband near-zero index metamaterials. <b>2015</b> , 17, 105104	10
1953	Design and analyses of an ultra-thin flat lens for wave front shaping in the visible. <b>2015</b> , 379, 3008-3012	2
1952	Mapping the near-field propagation of surface plasmons on terahertz metasurfaces. <b>2015</b> , 107, 021105	21
1951	Reflected wavefronts modulation with acoustic metasurface based on double-split hollow sphere. <b>2015</b> , 120, 487-493	27
1950	High-Efficiency All-Dielectric Metasurfaces for Ultracompact Beam Manipulation in Transmission Mode. <b>2015</b> , 15, 6261-6	415
1949	Multiple Wavefront Shaping by a Single Gradient Metasurface. <b>2015</b> ,	
1948	Plasmonic Metasurfaces to Steer Near-Field and Far-Field Optical Waves. <b>2015</b> ,	
1947	Dielectric metasurfaces for complete control of phase and polarization with subwavelength spatial resolution and high transmission. <b>2015</b> , 10, 937-43	1438
1946	Dielectric metasurfaces: Transparent design. <b>2015</b> , 10, 913-4	3
1945	Design of integration-ready metasurface-based infrared absorbers. <b>2015</b> , 118, 043109	5
1944	Direct observation of ultraslow hyperbolic polariton propagation with negative phase velocity. <b>2015</b> , 9, 674-678	203



1943	Electrically thin flat lenses and reflectors. <b>2015</b> , 32, 1700-6	9
1942	Optomechanical nanoantenna: far-field control of near-field through mechanical reconfiguration. <b>2015</b> ,	
1941	Terahertz wavefront control by tunable metasurface made of graphene ribbons. <b>2015</b> , 107, 053105	64
1940	An ultrathin invisibility skin cloak for visible light. <b>2015</b> , 349, 1310-4	684
1939	Radially Polarized Optical Vortex Micro-Converters Imprinted by Femtosecond Laser Nanostructuring in Amorphous Silicon. <b>2015</b> ,	
1938	Broadband Multifunctional Efficient Meta-Gratings Based on Dielectric Waveguide Phase Shifters. <b>2015</b> , 15, 6709-15	72
1937	Multi-dimensional real-time spectrum analysis for high-resolution signal processing. <b>2015</b> ,	
1936	Reflective plasmonic metasurface and metahologram. <b>2015</b> ,	
1935	Hyperbolic metasurfaces. <b>2015</b> ,	
1934	Tunable graphene metasurfaces by discontinuous Pancharatnam-Berry phase shift. <b>2015</b> , 26, 505203	16
1933	Spin-orbit interactions of light. <b>2015</b> , 9, 796-808	1011
1932	Spin-orbit photonics. <b>2015</b> , 9, 776-778	166
1931	Ultra-broadband Tunable Polarization Converter for Micro-fluidic-meta-surfaces. <b>2015</b> ,	0
1930	Tunable Terahertz Meta-Surface with Graphene Cut-Wires. <b>2015</b> , 2, 151-156	184
1929	Analog computing using reflective plasmonic metasurfaces. <b>2015</b> , 15, 791-7	150
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1927	Simultaneous Control of Light Polarization and Phase Distributions Using Plasmonic Metasurfaces. <b>2015</b> , 25, 704-710	150
1926	Three-Dimensional Metamaterials for Nonlinear Holography. <b>2016</b> ,	1

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1905	Full-Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. <b>2016</b> , 28, 6866-71	186
1904	Ultrawide Angle, Directional Spectrum Splitting with Visible-Frequency Versatile Metasurfaces. <b>2016</b> , 4, 953-958	19
1903	Accelerating spontaneous emission in open resonators. <b>2016</b> , 528, 571-579	6
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1899	Wideband helicity dependent spoof surface plasmon polaritons coupling metasurface based on dispersion design. <b>2016</b> , 6, 38460	4
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1897	Observation of giant Goos-Hänchen and angular shifts at designed metasurfaces. <b>2016</b> , 6, 19319	40
1896	Simultaneous generation of high-efficiency broadband asymmetric anomalous refraction and reflection waves with few-layer anisotropic metasurface. <b>2016</b> , 6, 35485	33
1895	Artificial perfect electric conductor-perfect magnetic conductor anisotropic metasurface for generating orbital angular momentum of microwave with nearly perfect conversion efficiency. <b>2016</b> , 119, 064506	56
1894	Broadband reflective metasurface for focusing underwater ultrasonic waves with linearly tunable focal length. <b>2016</b> , 108, 163502	37
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1886	Meta-gated channel for the discrete control of electromagnetic fields. <b>2016</b> , 109, 071601	2
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1883	New degrees of freedom of spin-optonics implemented by using hybrid surface waves localized at hyperbolic metasurface. <b>2016</b> ,	
1882	Experimental realisation of all-dielectric bianisotropic metasurfaces. <b>2016</b> , 108, 221903	34
1881	Acoustic dispersive prism. <b>2016</b> , 6, 18911	27
1880	Reflective gradient metasurfaces for polarization-independent light focusing at normal or oblique incidence. <b>2016</b> , 108, 071111	24
1879	Dynamic non-reciprocal meta-surfaces with arbitrary phase reconfigurability based on photonic transition in meta-atoms. <b>2016</b> , 108, 021110	47
1878	Normal incidence filters using symmetry-protected modes in dielectric subwavelength gratings. <b>2016</b> , 6, 36066	34
1877	An X-band parabolic antenna based on gradient metasurface. <b>2016</b> , 6, 075013	8
1876	Single-shot and single-sensor high/super-resolution microwave imaging based on metasurface. <b>2016</b> , 6, 26959	26
1875	Tunable microwave metasurfaces for high-performance operations: dispersion compensation and dynamical switch. <b>2016</b> , 6, 38255	88
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1872	All-dielectric ultrathin conformal metasurfaces: lensing and cloaking applications at 532 nm wavelength. <b>2016</b> , 6, 38440	40

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1867	Ultra-wideband circular-polarization converter with micro-split Jerusalem-cross metasurfaces. <b>2016</b> , 25, 128102	17
1866	Coherent perfect absorption in an all-dielectric metasurface. <b>2016</b> , 108, 121901	73
1865	Fabrication of nanostructured transmissive optical devices on ITO-glass with UV1116 photoresist using high-energy electron beam lithography. <b>2016</b> , 27, 485301	9
1864	Integrated humidity and temperature sensing circuit fabricated by inkjet printing technology. <b>2016</b> ,	4
1863	Trimeric metasurfaces for independent control of bright and dark modes of Fano resonances. <b>2016</b> , 108, 081109	18
1862	Metasurface Broadband Solar Absorber. <b>2016</b> , 6, 20347	148
1861	Dynamically sculpturing plasmonic vortices: from integer to fractional orbital angular momentum. <b>2016</b> , 6, 36269	16
1860	Analysis of metasurface based structures by using equivalent conductivity method. <b>2016</b> ,	
1859	Single-layer transmissive phase gradient metasurface with high-efficiency anomalous refraction. <b>2016</b> ,	
1858	Ultrathin broadband focusing metasurface for high-gain antenna application with high efficiency. <b>2016</b> ,	
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1853	Manipulation of surface plasmon polariton propagation on isotropic and anisotropic two-dimensional materials coupled to boron nitride heterostructures. <b>2016</b> , 119, 025301	12
1852	Main beam angle control microstrip antenna based on phase gradient metasurface. <b>2016</b> ,	2
1851	High-gain spoof surface plasmon polariton planar antenna based on the phase gradient metasurface. <b>2016</b> ,	
1850	Three-band polarization-independent spoof plasmon polariton coupler. <b>2016</b> ,	3
1849	Ultra-wideband terahertz reflective polarization conversion based on anisotropic meta-mirror with interlaced-parallel-dipole metasurface. <b>2016</b> ,	
1848	Invited Article: Broadband highly efficient dielectric metadevices for polarization control. <b>2016</b> , 1, 030801	248
1847	Experiments on metasurface carpet cloaking for audible acoustics. <b>2016</b> , 108, 064103	92
1846	Polarization-insensitive unidirectional spoof surface plasmon polaritons coupling by gradient metasurface. <b>2016</b> , 25, 078105	6
1845	Resonant response in mechanically tunable metasurface based on crossed metallic gratings with controllable crossing angle. <b>2016</b> , 109, 221905	6
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1842	Metasurface wave in planar nano-photonics. <b>2016</b> , 61, 112-113	10
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1839	Isotropic Holographic Metasurfaces for Dual-Functional Radiations without Mutual Interferences. <b>2016</b> , 26, 29-35	43
1838	Gap Plasmon Enhanced Metasurface Third-Harmonic Generation in Transmission Geometry. <b>2016</b> , 3, 1461-1467	26
1837	Nanofocusing of Hyperbolic Phonon Polaritons in a Tapered Boron Nitride Slab. <b>2016</b> , 3, 924-929	38
1836	Plasmonic rack-and-pinion gear with chiral metasurface. <b>2016</b> ,	1

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1831	Anomalous refraction of guided waves via embedded acoustic metasurfaces. <b>2016</b> ,	
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1829	Dynamic metasurface for broadband electromagnetic modulator in reflection. <b>2016</b> ,	3
1828	Dispersion-corrected metasurface for beam deflector and flat lens. <b>2016</b> ,	
1827	Ultrathin flat parabolic reflector based on gradient metasurface. <b>2016</b> ,	
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1820	Topology optimization for three-dimensional electromagnetic waves using an edge element-based finite-element method. <b>2016</b> , 472, 20150835	24
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1816	Bianisotropy and Magnetism in Plasmonic Gratings. <b>2016</b> , 3, 764-769	10
1815	Photonic spin-controlled multifunctional shared-aperture antenna array. <b>2016</b> , 352, 1202-6	313
1814	Optical fiber meta-tips. <b>2016</b> ,	
1813	Phenomenological modeling of geometric metasurfaces. <b>2016</b> , 24, 7120-32	9
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1809	Bending Gold Nanorods with Light. <b>2016</b> , 16, 6485-6490	37
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1803	Plasmonic Metasurfaces with Conjugated Polymers for Flexible Electronic Paper in Color. <b>2016</b> , 28, 9956-9960	94
1802	Highly-efficient all-dielectric Huygens' surface holograms (Conference Presentation). <b>2016</b> ,	
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1796	Meta-tips for lab-on-fiber optrodes. <b>2016</b> ,	1
1795	Plasmonic nano-slits assisted polarization selective detour phase meta-hologram. <b>2016</b> , 10, 978-985	37
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1790	Revisiting Newton's rings with a plasmonic optical flat for high-accuracy surface inspection. <b>2016</b> , 5, e16156	6
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1785	Plasmonic Multibowtie Aperture Antenna with Fano Resonance for Nanoscale Spectral Sorting. <b>2016</b> , 3, 1689-1697	17
1784	Manipulation of wavefront using helical metamaterials. <b>2016</b> , 24, 18266-76	5
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1782	High efficiency double-wavelength dielectric metasurface lenses with dichroic birefringent meta-atoms. <b>2016</b> , 24, 18468-77	62

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1778	Single-order transmission diffraction gratings based on dispersion engineered all-dielectric metasurfaces. <b>2016</b> , 33, 1641-7	21
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1774	High efficiency near diffraction-limited mid-infrared flat lenses based on metasurface reflectarrays. <b>2016</b> , 24, 18024-34	90
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1772	Optical Polarization Encoding Using Graphene-Loaded Plasmonic Metasurfaces. <b>2016</b> , 4, 91-98	84
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1533	Multiple-band perfect absorbers based on the combination of Fabry-Perot resonance and the gap plasmon resonance. <b>2017</b> , 399, 28-33	18
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1525	Structural Color Filters Enabled by a Dielectric Metasurface Incorporating Hydrogenated Amorphous Silicon Nanodisks. <b>2017</b> , 7, 2556	77
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1523	Digitalized Geometric Phases for Parallel Optical Spin and Orbital Angular Momentum Encoding. <b>2017</b> , 4, 1333-1338	69
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1515	Plasmonic Chiral Nanostructures: Chiroptical Effects and Applications. <b>2017</b> , 5, 1700040	97
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1498	Tailoring Terahertz Propagation by Phase and Amplitude Control in Metasurfaces. <b>2017</b> , 38, 1034-1046	2
1497	All-Dielectric Metasurfaces Based on Cross-Shaped Resonators for Color Pixels with Extended Gamut. <b>2017</b> , 4, 1076-1082	94
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1084	Holographic Resonant Laser Printing of Metasurfaces Using Plasmonic Template. <b>2018</b> , 5, 1665-1670	16
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403	Efficient perturbative framework for coupling of radiative and guided modes in nearly periodic surfaces. <b>2022</b> , 106,	1
402	Dynamic Beam Switching by the Highly Sensitive Metasurface Composed of All-Metallic Split-Ring Resonators. <b>2022</b> , 2022, 1-6	
401	All-Dielectric Terahertz Metasurface with Giant Extrinsic Chirality for Dual-Mode Sensing. 2200114	
400	Probing Denaturation of Protein A via Surface-Enhanced Infrared Absorption Spectroscopy. <b>2022</b> , 12, 530	1
399	Scalar-Superposition Metasurfaces with Robust Placement of Quantum Emitters for Tailoring Single-Photon Emission Polarization. 2200179	1
398	Anomalous wavefront control of third-harmonic generation via graphene-based nonlinear metasurfaces in the terahertz regime.	0
397	Absorption-Transmission-Type Multifunctional Coding Metasurface.	
396	Design of broadband transmission polarization conversion metasurface based on cross-shaped resonators. <b>2022</b> , 128,	0

395	Surface-Wave Based Metasurface Antennas. <b>2022</b> , 1-41	1
394	Single-Layer Achiral Metasurface with Independent Amplitude and Phase Control for Both Left-Handed and Right-Handed Circular Polarizations.	1
393	Plasmonic vortices: a review. <b>2022</b> , 24, 084004	0
392	Flat-optics generation of broadband photon pairs with tunable polarization entanglement.	0
391	Diffraction Nonlocal Metasurfaces. 2100633	6
390	Towards higher-dimensional structured light. <b>2022</b> , 11,	15
389	Metamaterials: From fundamental physics to intelligent design.	0
388	Generation of broadband terahertz focused vector beam using multifunctional metasurface. <b>2022</b> , 131, 112700	1
387	Broadband and thermally switchable reflective metasurface based on Z-shape InSb for terahertz vortex beam generation. <b>2022</b> , 144, 115373	3
386	Generation of polarization-insensitive perfect vortices by dielectric metasurfaces with diverging or converging axicon phases. <b>2022</b> , 155, 108409	0
385	Manipulation of self-assembled structures by shape-designed polygonal colloids in 2D. <b>2022</b> , 26, 101022	
384	Homeostatic neuro-metasurfaces for dynamic wireless channel management. <b>2022</b> , 8,	6
383	Electromagnetic waves in layered nanoresonator systems including bi-isotropic and metamaterial layers: analytical model and characteristic features of proper waves. 1-25	
382	Enabling Active Nanotechnologies by Phase Transition: From Electronics, Photonics to Thermotics.	1
381	Tailoring transmission window in dynamic way with multi-degree-of-freedom.	
380	Chip-scale metalens microscope for wide-field and depth-of-field imaging. <b>2022</b> , 4,	2
379	Electrical control of second-harmonic generation from nonlinear polaritonic metasurfaces. <b>2022</b> ,	
378	Metasurface Smart Glass for Object Recognition. <b>2022</b> ,	

377	Freeform wavelength division multiplexing metagrating based on topology optimization. <b>2022</b> , 0	
376	Metasurface on integrated photonic platform: from mode converters to machine learning. <b>2022</b> , 11, 3531-3546	2
375	Hybrid design and prototyping of metamaterials and metasurfaces. <b>2022</b> , 17, 1031-1046	1
374	Quasi-Bound States in the Continuum Enabled Strong Terahertz Chiroptical Response in Bilayer Metallic Metasurfaces. <b>2022</b> , 12, 1052	0
373	Ultra-Thin/Wide-Band Polarization Conversion Metasurface and Its Applications in Anomalous Reflection and RCS Reduction. <b>2022</b> , 12, 7696	0
372	Reconfigurable hyperbolic polaritonics with correlated oxide metasurfaces. <b>2022</b> , 13,	0
371	Controlling the polarization and phase of high-order harmonics with a plasmonic metasurface. <b>2022</b> , 9, 987	1
370	A Progress Review on Solid-State LiDAR and Nanophotonics-Based LiDAR Sensors. 2100511	5
369	RPA Plasmons in Graphene Nanoribbons: Influence of a VO <sub>2</sub> Substrate. <b>2022</b> , 12, 2861	1
368	Polarization-controlled varifocal metalens with a phase change material GSST in mid-infrared. <b>2022</b> , 30, 32501	0
367	All-dielectric metasurface for polarization-selective full-space complex amplitude modulations. <b>2022</b> , 47, 4291	0
366	Two-Dimensional Angular Bandwidth Broadening of Metasurface Grating. 2200158	
365	Toward High-Efficiency Ultrahigh Numerical Aperture Freeform Metalens: From Vector Diffraction Theory to Topology Optimization. 2200265	3
364	Optical and Thermal Design and Analysis of Phase-Change Metalenses for Active Numerical Aperture Control. <b>2022</b> , 12, 2689	2
363	Multifunctional resonant wavefront-shaping meta-optics based on multilayer and multi-perturbation nonlocal metasurfaces. <b>2022</b> , 11,	2
362	Noninterleaved Metasurface for Full-Polarization Three-Dimensional Vectorial Holography. 2200351	6
361	Study of MXene Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> quantum dot thin film on quartz bulk acoustic wave uncooled infrared sensors.	
360	Modulational Instability of Optical Vortices in Engineered Saturable Media. <b>2022</b> ,	



359	Single and coupled Helmholtz resonators for low frequency sound manipulation. <b>2022</b> , 132, 064505	2
358	High-sensitivity modulation of electromagnetically induced transparency analogue in THz asymmetric metasurface integrating perovskite and graphene.	1
357	Single-Layer Bayer Metasurface via Inverse Design. <b>2022</b> , 9, 2607-2613	0
356	Robust and High-Efficient Fabrication of Gold Triangles Array on Optical Fiber Tip for Laser Mode Locking. 2200703	1
355	High Speed Simulation and Freeform Optimization of Nanophotonic Devices with Physics-Augmented Deep Learning.	3
354	Compound Meta-Optics for Complete and Loss-Less Field Control.	
353	High-efficiency, polarization-insensitive 1400-lines/mm retroreflective metagrating with cascaded nano-optical modes. <b>2022</b> , 47, 3972	0
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349	Momentum-Space Polarization Fields in Two-Dimensional Photonic-Crystal Slabs: Physics and Applications.	0
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347	Picosecond mode switching and Higgs amplitude mode in superconductor-metal hybrid terahertz metasurface. <b>2022</b> , 11, 4253-4261	0
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345	Transfer-Learning-Assisted Inverse Metasurface Design for 30% Data Savings. <b>2022</b> , 18,	1
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342	Strong Polarization Dependent Nonlinear Excitation of a Perovskite Nanocrystal Monolayer on a Chiral Dielectric Nanoantenna Array.	1

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- 337 Latest Advances in Metasurfaces for SERS and SEIRA Sensors as Well as Photocatalysis. **2022**, 23, 10592 1
- 336 An All-Dielectric Metasurface Polarimeter. 1
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- 326 Spatiotemporal Control of Femtosecond Pulses. **2022**, 0
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322	Driving Ultrafast Control of Photoinduced Anisotropy by Hot Electron Dynamics in Plasmonic Metasurfaces. <b>2022</b> ,	0
321	Photoactive terahertz metasurfaces for ultrafast switchable sensing of colorectal cells.	1
320	Chapter 3. Anisotropic Polaritons in Layered Two-dimensional (2D) Materials. <b>2022</b> , 53-75	0
319	Compressive Sensing and Reconfigurable Reflection of Electromagnetic Waves. <b>2022</b> , 1-1	1
318	Plug-and-play plasmonic metafibers for ultrafast fibre lasers. <b>2022</b> , 3, 1	1
317	High-efficiency modulation of broadband polarization conversion with a reconfigurable chiral metasurface.	2
316	Controlling Asymmetric Retroreflection of Metasurfaces via Localized Loss Engineering. <b>2022</b> , 1-1	1
315	Windowed Green Function MoM for Second-Kind Surface Integral Equation Formulations of Layered Media Electromagnetic Scattering Problems. <b>2022</b> , 1-1	0
314	Diatomic terahertz metasurfaces for arbitrary-to-circular polarization conversion. <b>2022</b> , 14, 12856-12865	3
313	Electromagnetic Signal Modulation by Chromatic Dispersion in Phase Gradient Metasurface. <b>2022</b> , 10, 90752-90760	0
312	High-Q refractive index sensors based on all-dielectric metasurfaces. <b>2022</b> , 12, 21264-21269	0
311	A THz Integrated Circuit based on a Pixel Array to Mode Multiplex Two 10-Gbit/s QPSK Channels Each on a Different OAM Beam. <b>2022</b> , 1-9	2
310	Arbitrary Space-time Wave Packet Synthesis. <b>2022</b> ,	0
309	Use of neural networks fro designing robust flat-optics on flexible substrates. <b>2022</b> ,	0
308	Introduction. <b>2022</b> , 1-19	0
307	A Tunable Multi-Mode Dual-Band Terahertz Polarization Converter. <b>2022</b> , 17, 544-551	0
306	Real-time Hyperspectral Imaging in Hardware via Trained Metasurface Encoders. <b>2022</b> ,	0

305	Transparent, Cascaded-Sheet Metasurfaces for Field Transformations. <b>2022,</b>	0
304	Broadband and High-Efficiency Multi-Tasking Silicon-Based Geometric-Phase Metasurfaces: A Review. <b>2022, 9, 606</b>	1
303	Planar liquid crystal optics for simultaneously surface displaying and diffraction-limited focusing. <b>2022, 11, 4455-4463</b>	1
302	Metasurface empowered aliasing-free optical phase array in Lithium Niobate waveguides platform.	3
301	Independent and intensity-adjustable dual-focused vortex beams via a helicity-multiplexing metalens. <b>2022, 12, 3872</b>	1
300	A Broadband Achromatic Dielectric Planar Metalens in Mid-IR Range. <b>2023, 13,</b>	0
299	Review on Metasurfaces: An Alternative Approach to Advanced Devices and Instruments. <b>2022, 2022, 1-19</b>	2
298	Compact vertical grating coupler with an achromatic in-plane metalens on a 220-nm silicon-on-insulator platform. <b>2022, 30, 36254</b>	1
297	Inverse design of perimeter-controlled InAs-assisted metasurface for two-dimensional dynamic beam steering. <b>2022, 11, 4515-4530</b>	0
296	Dynamic Phase-Change Metawaveplates for Advanced Wavefront Shaping. 2200261	0
295	Scalable direct printing of visible-light metasurfaces composed of an industrial ZrO <sub>2</sub> -composite imprint material. <b>2022, 12, 4169</b>	0
294	Steering of flexural wave propagation in tunable magnetorheological elastomers metasurface by modulating magnetic field. <b>2022, 107793</b>	0
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292	Pulse-Driven Self-Reconfigurable Meta-Antennas.	0
291	Quantum metasurfaces holography.	0
290	Ultrathin nano-ring metasurface absorber in visible regime based on circuit model. <b>2022, 137,</b>	0
289	Manipulating generalized Dirac cones in subwavelength dipolar arrays. <b>2022, 106,</b>	0
288	Efficiently Solving Electromagnetic Scattering from Metasurface Structures Based on Improved Volume Surface Integral Equation Method. <b>2022,</b>	0

287	Versatile optical beam routers based on inversely designed supercell metagratings. <b>2022</b> , 101075	0
286	Full-space metasurface in mid-infrared based on phase change material of VO <sub>2</sub> .	0
285	Optical magnetism and wavefront control by arrays of strontium atoms. <b>2022</b> , 4,	0
284	Angular Momentum Holography via a Minimalist Metasurface for Optical Nested Encryption.	0
283	Merging metasurfaces with microfluidics.	0
282	Tailoring circular dichroism via the Born-Kuhn model for meta-holograms. <b>2022</b> , 65,	0
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280	Electrically driven thermal infrared metasurface with narrowband emission. <b>2022</b> , 121, 131703	0
279	On-Demand Mode Conversion and Wavefront Shaping via On-Chip Metasurfaces. 2200910	1
278	Revisiting the Design Strategies for Metasurfaces: Fundamental Physics, Optimization, and Beyond. 2206399	1
277	TORCWA: GPU-accelerated Fourier modal method and gradient-based optimization for metasurface design. <b>2022</b> , 108552	0
276	Radiative cooling for energy sustainability: Materials, systems, and applications. <b>2022</b> , 6,	1
275	SCALAR DIFFRACTION ANALYSIS OF DISPERSION EFFECT ON THE FOCAL LENGTH OF LOW-INDEX THIN FLAT LENSES.	0
274	Brewster metasurfaces for ultrabroadband reflectionless absorption at grazing incidence. <b>2022</b> , 9, 1138	2
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272	Chip-scale high-peak-power semiconductor/solid-state vertically integrated laser. <b>2022</b> , 13,	0
271	Molecular Plasmonics with Metamaterials.	3
270	A toolkit for multiscale optical system inverse-design. <b>2022</b> ,	0

269	Laser-modified Luminescence for Optical Data Storage.	0
268	SLMGAN: Single-layer metasurface design with symmetrical free-form patterns using generative adversarial networks. <b>2022</b> , 130, 109646	0
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266	Development of polymer-dispersed liquid crystals: From mode innovation to applications. <b>2022</b> , 163, 107234	4
265	Precision metrology: from bulk optics towards metasurface optics. <b>2021</b> , 62, 199-216	0
264	Optimization of metamaterials and metamaterial-microcavity based on deep neural networks.	0
263	Research progress of non-Hermitian electromagnetic metasurfaces. <b>2022</b> , 0	1
262	A Global Phase-Modulation Mechanism for Flat-Lens Design. 2202270	0
261	Dual-channel Geometric Meta-holograms with Complex-amplitude Modulation based on Bi-spectral Single-substrate-layer Meta-atoms.	1
260	Controlled filamentation instability as a scalable fabrication approach to flexible metamaterials. <b>2022</b> , 13,	0
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258	High numerical aperture RGB achromatic metalens in the visible.	2
257	All-Optical Tunability of Metalenses Permeated with Liquid Crystals. <b>2022</b> , 16, 16539-16548	1
256	Optimizing Metasurface-Component Performance by Improving Transmittance and Phase Match of the Nanopillars. <b>2022</b> , 12, 3720	0
255	Tunable Terahertz Wavefront Modulation Based on Phase Change Materials Embedded in Metasurface. <b>2022</b> , 12, 3592	1
254	Single-color peripheral photoinhibition lithography of nanophotonic structures. <b>2022</b> , 3,	0
253	High-performance full-color imaging system based on end-to-end joint optimization of computer-generated holography and metalens. <b>2022</b> , 30, 40871	0
252	Metasurface-driven full-space structured light for three-dimensional imaging. <b>2022</b> , 13,	6

251	Versatile platform of nonlocal metasurfaces for both spectral and spatial control of light waves. <b>2022</b> , 11,	0
250	Plasmonic metasurface created by a grating of two-dimensional electron strips on a substrate. <b>2022</b> , 106,	0
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248	High-efficiency SOI-based metalenses at telecommunication wavelengths. <b>2022</b> ,	1
247	Fast Topology Optimization for Near-Field Focusing All-Dielectric Metasurfaces Using the Discrete Dipole Approximation.	1
246	Infrared nBn detectors monolithically integrated with metasurface-based optical concentrators. <b>2022</b> , 121, 181109	0
245	Angular Transmission Response of In-Plane Symmetry-Breaking Quasi-BIC All-Dielectric Metasurfaces.	1
244	Ultra-wideband and high-efficiency cross-polarization conversion using a double split ring shaped metasurface for C, X, and Ku-band applications. <b>2022</b> , 12, 115002	0
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241	Stokes polarimetry with Poincaré sphere index beams. <b>2023</b> , 160, 107295	0
240	Optical meta-cage based on the phase gradient metagrating. <b>2023</b> , 0	0
239	Flat multifunctional liquid crystal elements through multi-dimensional information multiplexing. <b>2023</b> , 220063-220063	1
238	Broadband solar absorption by chromium metasurface for highly efficient solar thermophotovoltaic systems. <b>2023</b> , 171, 113005	1
237	Experimental demonstration of Fresnel zone plate lens for robust subwavelength focusing at megahertz. <b>2023</b> , 128, 106876	0
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235	Optimization of plasmonic tapering nanostructures for strong and versatile angle-selective flat optics. <b>2022</b> ,	0
234	Tunable photonic metasurfaces: fundamentals and applications. <b>2022</b> ,	0

233	Review on Panoramic Imaging and Its Applications in Scene Understanding. <b>2022</b> , 1-1	3
232	Manipulation Over Surface Waves in Bilayer Hyperbolic Metasurfaces: Topological Transition and Multidirectional Canalization. <b>2022</b> , 1-4	0
231	Multipolar Modeling of Spatially Dispersive Metasurfaces. <b>2022</b> , 1-1	0
230	A Digital Twin for MEMS and NEMS. <b>2023</b> , 1303-1334	0
229	Merging Polarization Degeneracy and High Localization With All-Dielectric Metasurfaces in Microwave and Near-Infrared Ranges. <b>2022</b> ,	0
228	VO <sub>2</sub> particle based intelligent metasurface with perfect infrared emission for spacecraft thermal control.	0
227	High-throughput fabrication of large area metasurfaces using electron beam lithography with SU-8 gratings for multi-level security printing.	1
226	All-dielectric terahertz metasurface for linear-polarized multi-channel transmission and superposition states of spherical and vortex waves.	0
225	Programmable wavefront control in the visible spectrum using low-loss chalcogenide phase change metasurfaces. 2205367	1
224	Bifocal flat lens with different imaging characteristics for a dual-sensor imaging system. <b>2022</b> , 12,	0
223	Metasurface Based Spin-Selective Wollaston-and-Rochon-Prism-Like Circularly Polarized Beam Splitter. 2200574	0
222	Windowed Green function method for wave scattering by periodic arrays of 2D obstacles.	0
221	Highly efficient transmissive wavefront steering with acoustic metagrating composed of Helmholtz-resonators. <b>2022</b> , 224, 111352	0
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219	Multifunctional graphene metadvice using dual metamaterial induced transparency in terahertz regime. <b>2023</b> , 203, 753-760	1
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214	Direct femtosecond laser printing of silk fibroin periodic structure with lower mid-infrared reflectivity. <b>2023</b> , 135, 113335	1
213	Photoluminescence engineering with nanoantenna phosphors.	0
212	Two-dimensional manipulation of ultraviolet Photonic Spin Hall Effect with high efficiency broadband dielectric metasurface. <b>2023</b> , 272, 170359	0
211	High resolution UV spectral imaging and bio-detection with magnetic dipole quasi-BIC resonant dielectric metasurfaces. <b>2023</b> , 530, 129173	0
210	End-to-end joint optimization of metasurface and image processing for compact snapshot hyperspectral imaging. <b>2023</b> , 530, 129154	1
209	Planar metasurface-based concentrators for solar energy harvest: from theory to engineering. <b>2022</b> , 3,	1
208	Origami-Kirigami Arts: Achieving Circular Dichroism by Flexible Meta-Film for Electromagnetic Information Encryption. 2200545	0
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205	Dynamic Tunable Meta-Lens Based on a Single-Layer Metal Microstructure. <b>2022</b> , 9, 917	0
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203	All-Dielectric Tunable Terahertz Metagrating for Diffraction Control. <b>2022</b> , 14, 55174-55182	0
202	Nonreciprocal transmission of electromagnetic waves with nonlinear active plasmonic metasurfaces. <b>2022</b> , 106,	0
201	Fiber-based 3D nano-printed holography with individually phase-engineered remote points. <b>2022</b> , 12,	0
200	Reconfigurable Metasurfaces for Dynamic Polarization Control. <b>2023</b> , 151-167	0
199	Low divergence tapered laser diode with integrated metalens. <b>2022</b> ,	0
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- 197 Tunable Optical Anisotropic Metasurfaces with Dynamic Control of In-Plane Symmetry. **2023**, 73-89 ○
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- 194 Tunable and Reconfigurable Flat Optics: An Outlook. **2023**, 169-180 ○
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- 191 Selective Hydroxylation of Carbon Fiber Paper for Long-Lasting Hydrophilicity by a Green Chemistry Process. 2201684 ○
- 190 How Thin and Efficient Can a Metasurface Reflector Be? Universal Bounds on Reflection for Any Direction and Polarization. 2201782 1
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177	Broadband optical transmission through two-dimensional hole arrays. <b>2023</b> , 25, 025001	0
176	Metalens polarization beam splitter based on fiber end face. <b>2022</b> ,	0
175	Thickness bound for nonlocal wide-field-of-view metalenses. <b>2022</b> , 11,	2
174	Triple-Band Terahertz Chiral Metasurface for Spin-Selective Absorption and Reflection Phase Manipulation. <b>2022</b> , 11, 4195	1
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171	Dielectric Mie voids: confining light in air. <b>2023</b> , 12,	3
170	A Numerical Study of Transmissive Liquid Crystal Pancharatnam-Berry Gratings with Small Periods.	0
169	Multifunctional Spin-decoupled Metadevices for Efficient Light Manipulation. <b>2022</b> ,	0
168	Simultaneous Implementation of Antireflection and Antitransmission Through Multipolar Interference in Plasmonic Metasurfaces and Applications in Optical Absorbers and Broadband Polarizers. <b>2022</b> ,	0
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166	Multi-wavelength achromatic metasurface deflector for visible light using inverse design. <b>2022</b> ,	0
165	Perfect vortex beam generation with high numerical aperture in broadband UV-visible regime. <b>2023</b> ,	0
164	High-Q multiple Fano resonances with near-unity modulation depth governed by nonradiative modes in all-dielectric terahertz metasurfaces.	0
163	Helical Structure Endows Liquid Crystal Planar Optics with a Customizable Working Band. 2200153	1
162	Multifunctional and tunable ultra-broadband linear to circle polarization converter based on VO <sub>2</sub> -Integrated material.	0

161	Three-dimensionally reconfigurable focusing of laser by mechanically tunable metalens doublet with built-in holograms for alignment. <b>2023</b> ,	0
160	Plasmonic vortices for tunable manipulation of target particles, using arrays of elliptical holes in a gold layer. <b>2023</b> , 13,	0
159	Flat-optics hybrid MoS <sub>2</sub> /polymer films for photochemical conversion.	0
158	Parity-protected anomalous diffraction in optical phase gradient metasurfaces. <b>2023</b> , 107,	2
157	Semiconductor lasers with integrated metasurfaces for direct output beam modulation, enabled by innovative fabrication methods. <b>2023</b> ,	0
156	A Third Angular Momentum of Photons. <b>2023</b> , 15, 158	0
155	Calculus of Variations Applied to Boundary Condition of Gangbuster Metasurface. <b>2023</b> , 1-5	0
154	Anomalous transmission of polypyrrole film on gold nanoparticle-immobilized electrode.	0
153	Lamb waves manipulation by piezoelectric metasurface with tunable diffraction orders. 10,	0
152	Deep-learning-based Metasurface Design Method Considering Near-field Couplings. <b>2023</b> , 1-9	0
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149	Retinal Projection Near-Eye Displays with Huygens Metasurfaces. 2202348	0
148	Tunable Plasmonic Perfect Absorber for Hot Electron Photodetection in Gold-Coated Silicon Nanopillars. <b>2023</b> , 10, 60	0
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144	On-chip integration of metasurface-doublet for optical phased array with enhanced beam steering. <b>2023</b> ,	1

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