

List of Publications by Citations

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

121
papers

3,714
citations

33
h-index

56
g-index

144
ext. papers

4,523
ext. citations

7.5
avg, IF

5.61
L-index

#	Paper	IF	Citations
121	Macroscopic invisibility cloaking of visible light. <i>Nature Communications</i> , 2011 , 2, 176	17.4	331
120	Surface plasmons and nonlocality: a simple model. <i>Physical Review Letters</i> , 2013 , 111, 093901	7.4	180
119	Experimental retrieval of the effective parameters of metamaterials based on a waveguide method. <i>Optics Express</i> , 2006 , 14, 12944-9	3.3	110
118	An optically driven digital metasurface for programming electromagnetic functions. <i>Nature Electronics</i> , 2020 , 3, 165-171	28.4	108
117	Design and analytical full-wave validation of the invisibility cloaks, concentrators, and field rotators created with a general class of transformations. <i>Physical Review B</i> , 2008 , 77,	3.3	108
116	Planar bifunctional Luneburg-fisheye lens made of an anisotropic metasurface. <i>Laser and Photonics Reviews</i> , 2014 , 8, 757-765	8.3	90
115	Response of a cylindrical invisibility cloak to electromagnetic waves. <i>Physical Review B</i> , 2007 , 76,	3.3	90
114	Homogeneous optical cloak constructed with uniform layered structures. <i>Optics Express</i> , 2011 , 19, 8625-31	3.1	88
113	Transforming the optical landscape. <i>Science</i> , 2015 , 348, 521-4	33.3	86
112	High-order localized spoof surface plasmon resonances and experimental verifications. <i>Scientific Reports</i> , 2015 , 5, 9590	4.9	85
111	Nonlinear Metasurface for Simultaneous Control of Spin and Orbital Angular Momentum in Second Harmonic Generation. <i>Nano Letters</i> , 2017 , 17, 7974-7979	11.5	82
110	Metal-Substrate-Mediated Plasmon Hybridization in a Nanoparticle Dimer for Photoluminescence Line-Width Shrinking and Intensity Enhancement. <i>ACS Nano</i> , 2017 , 11, 3067-3080	16.7	81
109	Surface plasmons and singularities. <i>Nano Letters</i> , 2010 , 10, 4186-91	11.5	78
108	Capturing photons with transformation optics. <i>Nature Physics</i> , 2013 , 9, 518-522	16.2	77
107	van der Waals interactions at the nanoscale: the effects of nonlocality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18422-7	11.5	76
106	. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 3926-3933	4.9	71
105	Spoof Plasmonics: From Metamaterial Concept to Topological Description. <i>Advanced Materials</i> , 2018 , 30, e1706683	24	70

104	Broadband light harvesting nanostructures robust to edge bluntness. <i>Physical Review Letters</i> , 2012 , 108, 023901	7.4	68
103	High-directivity antenna with small antenna aperture. <i>Applied Physics Letters</i> , 2009 , 95, 193506	3.4	59
102	Combined System for Efficient Excitation and Capture of LSP Resonances and Flexible Control of SPP Transmissions. <i>ACS Photonics</i> , 2015 , 2, 738-743	6.3	57
101	Ultrathin Dual-Band Metasurface Polarization Converter. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4636-4641	4.9	56
100	DIRECTIVE EMISSION OBTAINED BY COORDINATE TRANSFORMATION. <i>Progress in Electromagnetics Research</i> , 2008 , 81, 437-446	3.8	54
99	Manipulating DC currents with bilayer bulk natural materials. <i>Advanced Materials</i> , 2014 , 26, 3478-83	24	53
98	Plasmonic interaction between overlapping nanowires. <i>ACS Nano</i> , 2011 , 5, 597-607	16.7	47
97	Transformation-optics insight into nonlocal effects in separated nanowires. <i>Physical Review B</i> , 2012 , 86,	3.3	42
96	Compacted dimensions and singular plasmonic surfaces. <i>Science</i> , 2017 , 358, 915-917	33.3	40
95	Cylindrical cloak with axial permittivity/permeability spatially invariant. <i>Applied Physics Letters</i> , 2008 , 93, 033504	3.4	40
94	Electromagnetic contribution to surface-enhanced Raman scattering from rough metal surfaces: A transformation optics approach. <i>Physical Review B</i> , 2011 , 83,	3.3	38
93	Spoof plasmon hybridization. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600191	8.3	37
92	Effective Surface Plasmon Polaritons Induced by Modal Dispersion in a Waveguide. <i>Physical Review Applied</i> , 2017 , 7,	4.3	37
91	Theory of three-dimensional nanocrescent light harvesters. <i>Nano Letters</i> , 2012 , 12, 5946-53	11.5	36
90	Homogenous Metamaterial Description of Localized Spoof Plasmons in Spiral Geometries. <i>ACS Photonics</i> , 2016 , 3, 1768-1775	6.3	36
89	Cloak for multilayered and gradually changing media. <i>Physical Review B</i> , 2008 , 77,	3.3	35
88	WAVE AND RAY ANALYSIS OF A TYPE OF CLOAK EXHIBITING MAGNIFIED AND SHIFTED SCATTERING EFFECT. <i>Progress in Electromagnetics Research</i> , 2009 , 95, 167-178	3.8	33
87	Manipulating the directivity of antennas with metamaterial. <i>Optics Express</i> , 2008 , 16, 10962-7	3.3	33

86	Ultra-Low-Loss High-Contrast Gratings Based Spoof Surface Plasmonic Waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 2008-2018	4.1	32
85	Active digital spoof plasmonics. <i>National Science Review</i> , 2020 , 7, 261-269	10.8	32
84	Cloak of arbitrary shape. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1776	1.7	31
83	Invisibility Dips of Near-Field Energy Transport in a Spoof Plasmonic Metadimer. <i>Advanced Functional Materials</i> , 2016 , 26, 8307-8312	15.6	31
82	Probing the in-Plane Near-Field Enhancement Limit in a Plasmonic Particle-on-Film Nanocavity with Surface-Enhanced Raman Spectroscopy of Graphene. <i>ACS Nano</i> , 2019 , 13, 7644-7654	16.7	30
81	Transformation-optics description of plasmonic nanostructures containing blunt edges/corners: from symmetric to asymmetric edge rounding. <i>ACS Nano</i> , 2012 , 6, 6492-506	16.7	30
80	New Concept Conformal Antennas Utilizing Metamaterial and Transformation Optics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 509-512	3.8	30
79	Guiding waves through an invisible tunnel. <i>Optics Express</i> , 2009 , 17, 6203-8	3.3	29
78	Second-harmonic generation and spectrum modulation by an active nonlinear metamaterial. <i>Applied Physics Letters</i> , 2009 , 94, 134102	3.4	28
77	Interaction of an electromagnetic wave with a cone-shaped invisibility cloak and polarization rotator. <i>Physical Review B</i> , 2008 , 78,	3.3	27
76	Backward Phase Matching for Second Harmonic Generation in Negative-Index Conformal Surface Plasmonic Metamaterials. <i>Advanced Science</i> , 2018 , 5, 1800661	13.6	27
75	Forward/Backward Switching of Plasmonic Wave Propagation Using Sign-Reversal Coupling. <i>Advanced Materials</i> , 2017 , 29, 1700018	24	24
74	Transformation optics and hidden symmetries. <i>Physical Review B</i> , 2014 , 89,	3.3	23
73	Spatiotemporal Dynamics and Control of Strong Coupling in Plasmonic Nanocavities. <i>ACS Photonics</i> , 2017 , 4, 2410-2418	6.3	23
72	Minimizing the scattering of a nonmagnetic cloak. <i>Applied Physics Letters</i> , 2010 , 96, 113511	3.4	23
71	Controlling the Emission of Electromagnetic Source. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2008 , 4, 795-800		23
70	On-chip sub-terahertz surface plasmon polariton transmission lines with mode converter in CMOS. <i>Scientific Reports</i> , 2016 , 6, 30063	4.9	22
69	Description of Bow-Tie Nanoantennas Excited by Localized Emitters Using Conformal Transformation. <i>ACS Photonics</i> , 2016 , 3, 1223-1232	6.3	21

68	. <i>IEEE Microwave Magazine</i> , 2019 , 20, 73-91	1.2	21
67	Designing Plasmonic Gratings with Transformation Optics. <i>Physical Review X</i> , 2015 , 5,	9.1	21
66	Transformation-Invariant Metamaterials. <i>Physical Review Letters</i> , 2019 , 123, 067701	7.4	20
65	Description of van der Waals interactions using transformation optics. <i>Physical Review Letters</i> , 2013 , 111, 033602	7.4	20
64	Designer patterned functional fibers via direct imprinting in thermal drawing. <i>Nature Communications</i> , 2020 , 11, 3842	17.4	19
63	Polarization invariant plasmonic nanostructures for sensing applications. <i>Scientific Reports</i> , 2017 , 7, 75394	4.9	18
62	Transformation optics from macroscopic to nanoscale regimes: a review. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	18
61	Reverse surface-polariton cherenkov radiation. <i>Scientific Reports</i> , 2016 , 6, 30704	4.9	18
60	Polarization-Controlled Plasmonic Structured Illumination. <i>Nano Letters</i> , 2020 , 20, 2602-2608	11.5	17
59	Transmission of electromagnetic waves through sub-wavelength channels. <i>Optics Express</i> , 2010 , 18, 3864-3907	3.70	16
58	Full-wave analysis of prolate spheroidal and hyperboloidal cloaks. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 235101	3	16
57	SENSITIVITY OF TRANSFORMATION CLOAK IN ENGINEERING. <i>Progress in Electromagnetics Research</i> , 2008 , 84, 93-104	3.8	16
56	Observation of the Kinetic Inductance Limitation for the Fundamental Magnetic Resonance in Ultrasmall Gold v-Shape Split Ring Resonators. <i>Advanced Optical Materials</i> , 2016 , 4, 1047-1052	8.1	16
55	Mimicking Localized Surface Plasmons with Structural Dispersion. <i>Advanced Optical Materials</i> , 2019 , 7, 1900118	8.1	15
54	Tuning the dispersion of effective surface plasmon polaritons with multilayer systems. <i>Optics Express</i> , 2018 , 26, 4686-4697	3.3	15
53	Harvesting light with transformation optics. <i>Science China Information Sciences</i> , 2013 , 56, 1-13	3.4	15
52	An ultrahigh-accuracy Miniature Dew Point Sensor based on an Integrated Photonics Platform. <i>Scientific Reports</i> , 2016 , 6, 29672	4.9	15
51	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 7425-7432	4.9	14

50	Transformation optics applied to van der Waals interactions. <i>Science Bulletin</i> , 2016 , 61, 59-67	10.6	14
49	Harmonic image reconstruction assisted by a nonlinear metamaterial surface. <i>Physical Review Letters</i> , 2011 , 106, 047402	7.4	14
48	DESIGN AND APPLICATION OF A BEAM SHIFTER BY TRANSFORMATION MEDIA. <i>Progress in Electromagnetics Research</i> , 2008 , 83, 147-155	3.8	14
47	Mid-infrared sensing of molecular vibrational modes with tunable graphene plasmons. <i>Optics Letters</i> , 2017 , 42, 2066-2069	3	13
46	Lorentz force and radiation pressure on a spherical cloak. <i>Physical Review A</i> , 2009 , 80,	2.6	12
45	Phase-matching and Peak Nonlinearity Enhanced Third-Harmonic Generation in Graphene Plasmonic Coupler. <i>Physical Review Applied</i> , 2019 , 11,	4.3	11
44	Direct current remote cloak for arbitrary objects. <i>Light: Science and Applications</i> , 2019 , 8, 30	16.7	11
43	Experimental characterization and cell interactions of a two-dimensional isotropic left-handed metamaterial. <i>Applied Physics Letters</i> , 2008 , 92, 084108	3.4	11
42	Strong Plasmon-Exciton Interactions on Nanoantenna Array/Monolayer WS ₂ Hybrid System. <i>Advanced Optical Materials</i> , 2020 , 8, 1901002	8.1	11
41	Nonlocality Induced Cherenkov Threshold. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000149	8.3	11
40	Wideband backward coupling based on anisotropic left-handed metamaterial. <i>Applied Physics Letters</i> , 2007 , 90, 043506	3.4	10
39	Transformation Optics: A Time- and Frequency-Domain Analysis of Electron-Energy Loss Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 5156-62	11.5	10
38	Bianisotropy and Magnetism in Plasmonic Gratings. <i>ACS Photonics</i> , 2016 , 3, 764-769	6.3	10
37	Left-handed material based on ferroelectric medium. <i>Optics Express</i> , 2007 , 15, 8284-9	3.3	9
36	Loss Analysis of Plasmonic Metasurfaces Using Field-Network-Joint Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3521-3526	4.9	8
35	Enhancing Third-Harmonic Generation with Spatial Nonlocality. <i>ACS Photonics</i> , 2018 , 5, 592-598	6.3	8
34	Flexible Photonic Topological Insulator. <i>Advanced Optical Materials</i> , 2018 , 6, 1800532	8.1	8
33	FREE-ELECTRON RADIATION ENGINEERING VIA STRUCTURED ENVIRONMENTS. <i>Progress in Electromagnetics Research</i> , 2021 , 171, 75-88	3.8	8

32	Surface-Wave Pulse Routing around Sharp Right Angles. <i>Physical Review Applied</i> , 2018 , 9,	4.3	7
31	Single Plasmonic Structure Enhanced Dual-band Room Temperature Infrared Photodetection. <i>Scientific Reports</i> , 2018 , 8, 1548	4.9	7
30	Hiding levitating objects above a ground plane. <i>Applied Physics Letters</i> , 2010 , 97, 133501	3.4	7
29	Controlling the field distribution in waveguides with transformation optics. <i>Applied Physics Letters</i> , 2009 , 94, 234101	3.4	7
28	Rainbow-like radiation from an omni-directional source placed in a uniaxial metamaterial slab. <i>Optics Express</i> , 2009 , 17, 7068-73	3.3	7
27	A Brewster route to Cherenkov detectors. <i>Nature Communications</i> , 2021 , 12, 5554	17.4	7
26	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. <i>Advanced Optical Materials</i> , 2019 , 7, 1900905	8.1	6
25	Aluminum Nanotripods for Light-Matter Coupling Robust to Nanoemitter Orientation. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700051	8.3	6
24	Strain sensitivity enhancement based on periodic deformation in hollow core fiber. <i>Optics Letters</i> , 2020 , 45, 3997-4000	3	6
23	Directing Cherenkov photons with spatial nonlocality. <i>Nanophotonics</i> , 2020 , 9, 3435-3442	6.3	6
22	Interaction between graphene-coated nanowires revisited with transformation optics. <i>Optics Letters</i> , 2017 , 42, 2890-2893	3	5
21	Reconfigurable Parametric Amplifications of Spoof Surface Plasmons. <i>Advanced Science</i> , 2021 , 8, e21007956	9.56	5
20	Designing Spatial Kramers-Kronig Media Using Transformation Optics. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2945-2949	4.9	4
19	Luo et al. Reply. <i>Physical Review Letters</i> , 2015 , 115, 239402	7.4	3
18	Nonmagnetic Spoof Plasmonic Isolator Based on Parametric Amplification. <i>Laser and Photonics Reviews</i> , 2100578	8.3	3
17	Surface Dyakonov-Cherenkov radiation. <i>ELight</i> , 2022 , 2,		3
16	Two-dimensional Cross Embedded Metamaterials. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2007 , 3, 241-245		3
15	Plasmon-induced thermal tuning of strong plasmon-exciton coupling in monolayer tungsten disulphide excited by few excitons. <i>Optica</i> ,	8.6	3

14	A conformal transformation approach to wide-angle illusion device and absorber. <i>Nanophotonics</i> , 2020 , 9, 3243-3249	6.3	2
13	Cloak Changing with Background. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2008 , 4, 596-600		2
12	Ultracompact Effective Localized Surface Plasmonic Bandpass Filter for 5G Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2220-2228	4.1	2
11	Experimental demonstration of broadband reflectionless diffraction-free electromagnetic wave routing. <i>Physical Review B</i> , 2016 , 94,	3.3	2
10	The Carpet Cloak. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 461-480	0.1	1
9	Gain-assisted metamaterial embedded with gain elements. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 92-95	1.2	1
8	GeSn/GaAs Hetero-Structure by Magnetron Sputtering. <i>IEEE Journal of Quantum Electronics</i> , 2020 , 56, 1-5	2	1
7	Towards a practical compact magnifying superlens—simple simplicial design. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 044011	1.7	1
6	Broadband Electromagnetic Waves Harvesting Based on Effective Surface Plasmon Polaritons 2018		1
5	A Miniaturized Anechoic Chamber: Omnidirectional Impedance Matching Based on Truncated Spatial Kramers-Kronig Medium. <i>Advanced Optical Materials</i> , 2200381	8.1	1
4	Polarization-robust mid-infrared carpet cloak with minimized lateral shift. <i>Photonics Research</i> , 2021 , 9, 944	6	0
3	Recent Progress and Future Opportunities for Hot Carrier Photodetectors: From Ultraviolet to Infrared Bands. <i>Laser and Photonics Reviews</i> , 2100714	8.3	0
2	Plasmonics and Transformation Optics. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 147-196	0.1	
1	Vertical growth of plasmonic nanostructures via electrodeposition on a conductive oxide. <i>Procedia Engineering</i> , 2017 , 215, 60-65		