

George Eleftheriades

List of Publications by Year in descending order

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288
papers

9,708
citations

31902

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45213

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289
all docs

289
docs citations

289
times ranked

4727
citing authors

#	ARTICLE	IF	CITATIONS
1	Overcoming the Diffraction Limit with a Planar Left-Handed Transmission-Line Lens. <i>Physical Review Letters</i> , 2004, 92, 117403.	2.9	683
2	Experimental verification of backward-wave radiation from a negative refractive index metamaterial. <i>Journal of Applied Physics</i> , 2002, 92, 5930-5935.	1.1	477
3	Discontinuous electromagnetic fields using orthogonal electric and magnetic currents for wavefront manipulation. <i>Optics Express</i> , 2013, 21, 14409.	1.7	318
4	Huygens's™ metasurfaces via the equivalence principle: design and applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, A31.	0.9	266
5	Synthesis of Passive Lossless Metasurfaces Using Auxiliary Fields for Reflectionless Beam Splitting and Perfect Reflection. <i>Physical Review Letters</i> , 2016, 117, 256103.	2.9	243
6	Passive Lossless Huygens Metasurfaces for Conversion of Arbitrary Source Field to Directive Radiation. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 5680-5695.	3.1	220
7	Arbitrary Power-Conserving Field Transformations With Passive Lossless Omega-Type Bianisotropic Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 3880-3895.	3.1	217
8	Perfect Anomalous Reflection with a Bipartite Huygens's™ Metasurface. <i>Physical Review X</i> , 2018, 8, .	2.8	212
9	A Compact Tri-Band Monopole Antenna With Single-Cell Metamaterial Loading. <i>IEEE Transactions on Antennas and Propagation</i> , 2010, 58, 1031-1038.	3.1	185
10	Cavity-excited Huygens's™ metasurface antennas for near-unity aperture illumination efficiency from arbitrarily large apertures. <i>Nature Communications</i> , 2016, 7, 10360.	5.8	171
11	A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 295-298.	2.4	161
12	Reflectionless Wide-Angle Refracting Metasurfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 1293-1296.	2.4	155
13	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 073002.	1.0	146
14	Huygens's™ metasurfaces from microwaves to optics: a review. <i>Nanophotonics</i> , 2018, 7, 1207-1231.	2.9	143
15	A Folded-Monopole Model for Electrically Small NRI-TL Metamaterial Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008, 7, 425-428.	2.4	129
16	Theory, design, and experimental verification of a reflectionless bianisotropic Huygens' metasurface for wide-angle refraction. <i>Physical Review B</i> , 2018, 97, .	1.1	128
17	Experimental and theoretical verification of focusing in a large, periodically loaded transmission line negative refractive index metamaterial. <i>Optics Express</i> , 2003, 11, 696.	1.7	127
18	A Compact Multiband Monopole Antenna With a Defected Ground Plane. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008, 7, 652-655.	2.4	127

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19	Optical Huygensâ€™™ Metasurfaces with Independent Control of the Magnitude and Phase of the Local Reflection Coefficients. Physical Review X, 2014, 4, .	2.8	111
20	Roadmap on superoscillations. Journal of Optics (United Kingdom), 2019, 21, 053002.	1.0	111
21	Growing evanescent waves in negative-refractive-index transmission-line media. Applied Physics Letters, 2003, 82, 1815-1817.	1.5	108
22	Experimental Demonstration of Active Electromagnetic Cloaking. Physical Review X, 2013, 3, .	2.8	107
23	Realizing Non-Foster Reactive Elements Using Negative-Group-Delay Networks. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4322-4332.	2.9	104
24	A Generalized Negative-Refractive-Index Transmission-Line (NRIâ€™TL) Metamaterial for Dual-Band and Quad-Band Applications. IEEE Microwave and Wireless Components Letters, 2007, 17, 415-417.	2.0	100
25	An Optical Super-Microscope for Far-field, Real-time Imaging Beyond the Diffraction Limit. Scientific Reports, 2013, 3, 1715.	1.6	100
26	Analysis and Characterization of a Wide-Angle Impedance Matching Metasurface for Dipole Phased Arrays. IEEE Transactions on Antennas and Propagation, 2015, 63, 3928-3938.	3.1	100
27	A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 258-261.	2.4	97
28	Arbitrary-Angle Squint-Free Beamforming in Series-Fed Antenna Arrays Using Non-Foster Elements Synthesized by Negative-Group-Delay Networks. IEEE Transactions on Antennas and Propagation, 2015, 63, 1997-2010.	3.1	94
29	Design of unit cells and demonstration of methods for synthesizing Huygens metasurfaces. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 360-375.	1.0	93
30	An isotropic three-dimensional negative-refractive-index transmission-line metamaterial. Journal of Applied Physics, 2005, 98, 043106.	1.1	90
31	A CPS Leaky-Wave Antenna With Reduced Beam Squinting Using NRI-TL Metamaterials. IEEE Transactions on Antennas and Propagation, 2008, 56, 708-721.	3.1	83
32	Dirac leaky-wave antennas for continuous beam scanning from photonic crystals. Nature Communications, 2015, 6, 5855.	5.8	82
33	An Active Electromagnetic Cloak Using the Equivalence Principle. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1226-1229.	2.4	80
34	Spatially Shifted Beam Approach to Subwavelength Focusing. Physical Review Letters, 2008, 101, 113901.	2.9	79
35	Generalized Space-Time-Periodic Diffraction Gratings: Theory and Applications. Physical Review Applied, 2019, 12, .	1.5	79
36	Polarization Control Using Tensor Huygens Surfaces. IEEE Transactions on Antennas and Propagation, 2014, 62, 6155-6168.	3.1	73

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37	Circuit Modeling of Huygens Surfaces. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1642-1645.	2.4	69
38	Multiband Compact Printed Dipole Antennas Using NRI-TL Metamaterial Loading. IEEE Transactions on Antennas and Propagation, 2012, 60, 5613-5626.	3.1	65
39	Beam-Squinting Reduction of Leaky-Wave Antennas Using Huygens Metasurfaces. IEEE Transactions on Antennas and Propagation, 2015, 63, 978-992.	3.1	64
40	Binary Huygensâ€™™ Metasurfaces: Experimental Demonstration of Simple and Efficient Near-Grazing Retroreflectors for TE and TM Polarizations. IEEE Transactions on Antennas and Propagation, 2018, 66, 2892-2903.	3.1	64
41	Free-Space Imaging Beyond the Diffraction Limit Using a Veselago-Pendry Transmission-Line Metamaterial Superlens. IEEE Transactions on Antennas and Propagation, 2009, 57, 1720-1727.	3.1	61
42	Full-Duplex Nonreciprocal Beam Steering by Time-Modulated Phase-Gradient Metasurfaces. Physical Review Applied, 2020, 14, .	1.5	60
43	EM transmission-line metamaterials. Materials Today, 2009, 12, 30-41.	8.3	59
44	A Compact Frequency-Reconfigurable Metamaterial-Inspired Antenna. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1154-1157.	2.4	59
45	A Leaky-Wave Antenna With Controlled Radiation Using a Bianisotropic Huygensâ€™™ Metasurface. IEEE Transactions on Antennas and Propagation, 2019, 67, 108-120.	3.1	59
46	Adaptation of Schelkunoff's Superdirective Antenna Theory for the Realization of Superoscillatory Antenna Arrays. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 315-318.	2.4	58
47	Design and Experimental Verification of a Passive Huygensâ€™™ Metasurface Lens for Gain Enhancement of Frequency-Scanning Slotted-Waveguide Antennas. IEEE Transactions on Antennas and Propagation, 2019, 67, 4678-4692.	3.1	58
48	Full-duplex reflective beamsteering metasurface featuring magnetless nonreciprocal amplification. Nature Communications, 2021, 12, 4414.	5.8	58
49	Printed and Integrated CMOS Positive/Negative Refractive-Index Phase Shifters Using Tunable Active Inductors. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1611-1623.	2.9	57
50	Enabling RF/microwave devices using negative-refractive-index transmission-line (NRI-TL) metamaterials. IEEE Antennas and Propagation Magazine, 2007, 49, 34-51.	1.2	56
51	A Multilayer Negative-Refractive-Index Transmission-Line (NRI-TL) Metamaterial Free-Space Lens at X-Band. IEEE Transactions on Antennas and Propagation, 2007, 55, 2746-2753.	3.1	56
52	A Compact Highly Reconfigurable CMOS MMIC Directional Coupler. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 305-319.	2.9	56
53	Floquet-Bloch analysis of refracting Huygens metasurfaces. Physical Review B, 2014, 90, .	1.1	56
54	A Simple Approach for Reducing Mutual Coupling in Two Closely Spaced Metamaterial-Inspired Monopole Antennas. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 379-382.	2.4	55

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55	Polarization Considerations for Scalar Huygens Metasurfaces and Characterization for 2-D Refraction. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 913-924.	2.9	54
56	Arbitrary Antenna Arrays Without Feed Networks Based on Cavity-Excited Omega-Bianisotropic Metasurfaces. IEEE Transactions on Antennas and Propagation, 2017, 65, 1749-1756.	3.1	53
57	Holography-Inspired Screens for Sub-Wavelength Focusing in the Near Field. IEEE Microwave and Wireless Components Letters, 2008, 18, 236-238.	2.0	50
58	Sub-Wavelength Focusing at the Multi-Wavelength Range Using Superoscillations: An Experimental Demonstration. IEEE Transactions on Antennas and Propagation, 2011, 59, 4766-4776.	3.1	50
59	Bianisotropic Huygensâ€™™ Metasurface for Wideband Impedance Matching Between Two Dielectric Media. IEEE Transactions on Antennas and Propagation, 2018, 66, 4729-4742.	3.1	50
60	Superresolution far-field imaging of complex objects using reduced superoscillating ripples. Optica, 2017, 4, 1126.	4.8	49
61	Microwave Space-Time-Modulated Metasurfaces. ACS Photonics, 2022, 9, 305-318.	3.2	49
62	Vanadium-dioxide-assisted digital optical metasurfaces for dynamic wavefront engineering. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 980.	0.9	48
63	Protecting the weak from the strong. Nature, 2014, 505, 490-491.	13.7	47
64	A Resonant Printed Monopole Antenna With an Embedded Non-Foster Matching Network. IEEE Transactions on Antennas and Propagation, 2013, 61, 5363-5371.	3.1	45
65	Microwave Huygensâ€™™ Metasurfaces: Fundamentals and Applications. IEEE Journal of Microwaves, 2021, 1, 374-388.	4.9	44
66	Mechanisms of subdiffraction free-space imaging using a transmission-line metamaterial superlens: An experimental verification. Applied Physics Letters, 2008, 92, 131105.	1.5	43
67	A Planar Electronically Steerable Patch Array Using Tunable PRI/NRI Phase Shifters. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 531-541.	2.9	41
68	A Technique for Designing Multilayer Multistopband Frequency Selective Surfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 780-789.	3.1	40
69	Matched, Low-Loss, and Wideband Graded-Index Flat Lenses for Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 1114-1123.	3.1	40
70	Augmented Huygensâ€™™ Metasurfaces Employing Baffles for Precise Control of Wave Transformations. IEEE Transactions on Antennas and Propagation, 2019, 67, 6935-6946.	3.1	39
71	A two-dimensional uniplanar transmission-line metamaterial with a negative index of refraction. New Journal of Physics, 2005, 7, 163-163.	1.2	36
72	Light concentration using hetero-junctions of anisotropic low permittivity metamaterials. Light: Science and Applications, 2013, 2, e114-e114.	7.7	36

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73	Bianisotropic Huygensâ€™™ Metasurface Pairs for Nonlocal Power-Conserving Wave Transformations. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1788-1792.	2.4	36
74	Miniaturized Circularly Polarized Doppler Radar for Human Vital Sign Detection. IEEE Transactions on Antennas and Propagation, 2019, 67, 7022-7030.	3.1	36
75	Self and mutual admittance of slot antennas on a dielectric half-space. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 1925-1946.	0.6	35
76	Single- and Dual-Band Transparent Circularly Polarized Patch Antennas With Metamaterial Loading. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 470-473.	2.4	34
77	Generalized Synthesis Technique for High-Order Low-Profile Dual-Band Frequency Selective Surfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 6033-6042.	3.1	34
78	Anisotropic Transmission-Line Metamaterials for 2-D Transformation Optics Applications. Proceedings of the IEEE, 2011, 99, 1634-1645.	16.4	33
79	Ultra-wideband optical leaky-wave slot antennas. Optics Express, 2011, 19, 12392.	1.7	32
80	Programmable nonreciprocal meta-prism. Scientific Reports, 2021, 11, 7377.	1.6	32
81	2D and 3D sub-diffraction source imaging with a superoscillatory filter. Optics Express, 2013, 21, 8142.	1.7	31
82	Omega-Bianisotropic Wire-Loop Huygensâ€™™ Metasurface for Reflectionless Wide-Angle Refraction. IEEE Transactions on Antennas and Propagation, 2020, 68, 1477-1490.	3.1	31
83	Arbitrary Wave Transformations With Huygensâ€™™ Metasurfaces Through Surface-Wave Optimization. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1750-1754.	2.4	31
84	Analysis of Bandwidth and Loss in Negative-Refractive-Index Transmission-Line (NRIâ€™™TL) Media Using Coupled Resonators. IEEE Microwave and Wireless Components Letters, 2007, 17, 412-414.	2.0	30
85	Temporal Pulse Compression Beyond the Fourier Transform Limit. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2173-2179.	2.9	30
86	Superoscillations without Sidebands: Power-Efficient Sub-Diffraction Imaging with Propagating Waves. Scientific Reports, 2015, 5, 8449.	1.6	29
87	Design of Compact Huygensâ€™™ Metasurface Pairs With Multiple Reflections for Arbitrary Wave Transformations. IEEE Transactions on Antennas and Propagation, 2020, 68, 7382-7394.	3.1	29
88	A 0.13- μm CMOS Phase Shifter Using Tunable Positive/Negative Refractive Index Transmission Lines. IEEE Microwave and Wireless Components Letters, 2006, 16, 705-707.	2.0	28
89	A three-dimensional isotropic transmission-line metamaterial topology for free-space excitation. Applied Physics Letters, 2008, 92, 261106.	1.5	28
90	Modal Analysis and Wave Propagation in Finite 2D Transmission-Line Metamaterials. IEEE Transactions on Antennas and Propagation, 2011, 59, 1562-1570.	3.1	27

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91	An ultra-short contra-directional coupler utilizing surface plasmon-polaritons at optical frequencies. Optics Express, 2006, 14, 7279.	1.7	26
92	Resonant modes in continuous metallic grids over ground and related spatial-filtering applications. Journal of Applied Physics, 2006, 99, 083102.	1.1	26
93	A Compact Printed Antenna With an Embedded Double-Tuned Metamaterial Matching Network. IEEE Transactions on Antennas and Propagation, 2010, 58, 2354-2361.	3.1	25
94	Metascreen-Based Superdirective Antenna in the Optical Frequency Regime. Physical Review Letters, 2012, 109, 223901.	2.9	25
95	Plasmonic meta-screen for alleviating the trade-offs in the near-field optics. Optics Express, 2009, 17, 12351.	1.7	24
96	Evanescent-to-propagating wave conversion in sub-wavelength metal-strip gratings. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3893-3907.	2.9	24
97	Space-Time Medium Functions as a Perfect Antenna-Mixer-Amplifier Transceiver. Physical Review Applied, 2020, 14, .	1.5	24
98	Analysis and Design of General Printed Circuit Board Metagratings With an Equivalent Circuit Model Approach. IEEE Transactions on Antennas and Propagation, 2021, 69, 4657-4669.	3.1	24
99	Near-Perfect Absorbing Copper Metamaterial for Solar Fuel Generation. Nano Letters, 2021, 21, 9124-9130.	4.5	23
100	Extreme Beam-Forming With Impedance Metasurfaces Featuring Embedded Sources and Auxiliary Surface Wave Optimization. IEEE Access, 2022, 10, 28670-28684.	2.6	23
101	Two-dimensional subwavelength-focused imaging using a near-field probe at a $\hat{\lambda}/4$ working distance. Journal of Applied Physics, 2010, 107, 093102.	1.1	22
102	Transforming Electromagnetics Using Metamaterials. IEEE Microwave Magazine, 2012, 13, 26-38.	0.7	22
103	A Thin Double-Mesh Metamaterial Radome for Wide-Angle and Broadband Applications at Millimeter-Wave Frequencies. IEEE Transactions on Antennas and Propagation, 2020, 68, 2176-2185.	3.1	22
104	Discrete-Fourier-Transform-Based Framework for Analysis and Synthesis of Cylindrical $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \Omega \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Bianisotropic Metasurfaces. Physical Review Applied, 2020, 14, .	1.5	22
105	Active Huygens's™ Box: Arbitrary Electromagnetic Wave Generation With an Electronically Controlled Metasurface. IEEE Transactions on Antennas and Propagation, 2021, 69, 1455-1468.	3.1	21
106	Pure and Linear Frequency-Conversion Temporal Metasurface. Physical Review Applied, 2021, 15, .	1.5	21
107	Theory and Simulation of Metasurface Lenses for Extending the Angular Scan Range of Phased Arrays. IEEE Transactions on Antennas and Propagation, 2020, 68, 3705-3717.	3.1	21
108	A quad-band bandpass filter using negative-refractive-index transmission-line (NRI-TL) metamaterials. , 2007, , .		20

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109	A Negative-Refractive-Index Metamaterial for Incident Plane Waves of Arbitrary Polarization. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 28-32.	2.4	20
110	A Near-Field Probe for Subwavelength-Focused Imaging. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 551-558.	2.9	20
111	On the Independence of the Excitation of Complex Modes in Isotropic Structures. IEEE Transactions on Antennas and Propagation, 2010, 58, 1567-1578.	3.1	20
112	Metamaterials: Fundamentals and Applications in the Microwave and Optical Regimes [Scanning the Issue]. Proceedings of the IEEE, 2011, 99, 1618-1621.	16.4	20
113	Superoscillatory Radar Imaging: Improving Radar Range Resolution Beyond Fundamental Bandwidth Limitations. IEEE Microwave and Wireless Components Letters, 2012, 22, 147-149.	2.0	20
114	Highly efficient all-dielectric optical tensor impedance metasurfaces for chiral polarization control. Optics Letters, 2016, 41, 4831.	1.7	20
115	Dual-Band Reflective Metagratings With Interleaved Meta-Wires. IEEE Transactions on Antennas and Propagation, 2021, 69, 2181-2193.	3.1	20
116	Triangular-Mesh-Based FDTD Analysis of Two-Dimensional Plasmonic Structures Supporting Backward Waves at Optical Frequencies. Journal of Lightwave Technology, 2007, 25, 938-945.	2.7	18
117	Peripherally Excited Phased Array Architecture for Beam Steering with Reduced Number of Active Elements. IEEE Transactions on Antennas and Propagation, 2020, 68, 1249-1260.	3.1	18
118	Two-Dimensional Subwavelength Focusing Using a Slotted Meta-Screen. IEEE Microwave and Wireless Components Letters, 2009, 19, 137-139.	2.0	17
119	A Time-Varying Approach to Circuit Modeling of Plasmonic Nanospheres Using Radial Vector Wave Functions. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2595-2611.	2.9	17
120	Active Huygens' metasurfaces for RF waveform synthesis in a cavity. , 2016, , .		17
121	Eliminating Beam-Squinting in Wideband Linear Series-Fed Antenna Arrays Using Feed Networks Constructed by Slow-Wave Transmission Lines. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 798-801.	2.4	17
122	Miniaturized microwave components and antennas using negative-refractive-index transmission-line (NRI-TL) metamaterials. Metamaterials, 2007, 1, 53-61.	2.2	15
123	Transmission-Line Metamaterials on a Skewed Lattice for Transformation Electromagnetics. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3272-3282.	2.9	15
124	Broadband superoscillation brings a wave into perfect three-dimensional focus. Physical Review B, 2017, 95, .	1.1	15
125	A Passive Redirecting Van Atta-Type Reflector. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 689-692.	2.4	15
126	Guided-Wave-Excited Binary Huygensâ€™ Metasurfaces for Dynamic Radiated-Beam Shaping with Independent Gain and Scan-Angle Control. Physical Review Applied, 2021, 15, .	1.5	15

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127	Prospects of Huygens's™ Metasurfaces for Antenna Applications. <i>Engineering</i> , 2022, 11, 21-26.	3.2	15
128	Two Compact, Wideband, and Decoupled Meander-Line Antennas Based on Metamaterial Concepts. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012, 11, 1277-1280.	2.4	14
129	Static and Reconfigurable Huygens's™ Metasurfaces: Use in Antenna Beamforming and Beam Steering. <i>IEEE Antennas and Propagation Magazine</i> , 2022, 64, 73-84.	1.2	14
130	Resonance-cone focusing in a compensating bilayer of continuous hyperbolic microstrip grids. <i>Applied Physics Letters</i> , 2004, 85, 1292-1294.	1.5	13
131	Meta-screens and near-field antenna-arrays: A new perspective on subwavelength focusing and imaging. <i>Metamaterials</i> , 2011, 5, 97-106.	2.2	13
132	Active Cloaking of a Non-Uniform Scatterer. <i>Scientific Reports</i> , 2020, 10, 2021.	1.6	13
133	Multimode Impedance Representation of Scattering, Absorption and Extinction Cross-Sectional Areas for Plasmonic Nanoparticles. <i>Journal of Lightwave Technology</i> , 2011, 29, 2512-2526.	2.7	12
134	An Ultra-Compact Microstrip Crossover Inspired by Contra-Directional Even and Odd Mode Propagation. <i>IEEE Microwave and Wireless Components Letters</i> , 2014, 24, 436-438.	2.0	12
135	Pencil-Beam Single-Point-Fed Dirac Leaky-Wave Antenna on a Transmission-Line Grid. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 545-548.	2.4	12
136	Invisibility cloaking with passive and active Huygens's metasurfaces. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	12
137	Negative-Refractive-Index Transmission-Line Metamaterials. , 2005, , 1-52.		11
138	An Investigation of Printed Franklin Antennas at X-Band Using Artificial (Metamaterial) Phase-Shifting Lines. <i>IEEE Transactions on Antennas and Propagation</i> , 2008, 56, 3118-3128.	3.1	11
139	A dual-band leaky-wave antenna based on generalized negative-refractive-index transmission-lines. , 2010, , .		11
140	Unilateral non-Foster elements using loss-compensated negative-group-delay networks for guided-wave applications. , 2013, , .		11
141	A simple active Huygens source for studying waveform synthesis with Huygens metasurfaces and antenna arrays. , 2015, , .		11
142	Design and Demonstration of Impedance-matched Dual-band Chiral Metasurfaces. <i>Scientific Reports</i> , 2018, 8, 3449.	1.6	11
143	Multi-Functional Metasurface: Visibly and RF Transparent, NIR Control and Low Thermal Emissivity. <i>Advanced Optical Materials</i> , 2021, 9, 2100176.	3.6	11
144	Experimental verification of subwavelength acoustic focusing using a near-field array of closely spaced elements. <i>Journal of the Acoustical Society of America</i> , 2011, 130, EL405-EL409.	0.5	10

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145	Reconfigurability Mechanisms With Scanning Rate Control for Omega-Bianisotropic Huygens's™ Metasurface Leaky-Wave Antennas. <i>IEEE Access</i> , 2019, 7, 168247-168260.	2.6	10
146	Meandered and Dispersion-Enhanced Planar Leaky-Wave Antenna With Fast Beam Scanning. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 1596-1600.	2.4	10
147	Physical implementation of a generalized NRI-TL medium for quad-band applications. , 2007, , .		9
148	Two-Dimensional Subwavelength-Focused Imaging Using a Near-Field End-Fire Antenna-Array Probe. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 1025-1028.	2.4	9
149	Spatial Harmonics and Homogenization of Negative-Refractive-Index Transmission-Line Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 1521-1531.	2.9	9
150	Squint-free beamforming in series-fed antenna arrays using synthesized non-foster elements. , 2013, , .		9
151	Superdirectivity-based superoscillatory waveform design: A practical path to far-field sub-diffraction imaging. , 2014, , .		9
152	Dirac leaky wave antenna for millimetre-wave applications. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 874-883.	0.7	9
153	Design and Experimental Demonstration of Impedance-Matched Circular-Polarization-Selective Surfaces with Spin-Selective Phase Modulations. <i>Physical Review Applied</i> , 2020, 13, .	1.5	9
154	Fixed-Frequency Beam-Steering Using Slotted Waveguide With Tunable Impedance Walls. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 978-990.	2.5	9
155	Approach to the analysis and synthesis of cylindrical metasurfaces with noncircular cross sections based on conformal transformations. <i>Physical Review B</i> , 2020, 102, .	1.1	9
156	Surface-Waves Optimization for Beamforming with a Single Omega-bianisotropic Huygens' Metasurface. , 2020, , .		9
157	Growing evanescent waves in a cutoff rectangular waveguide loaded with an inductive iris and a capacitive post. <i>Journal of Applied Physics</i> , 2005, 97, 124910.	1.1	8
158	Microwave Devices and Antennas Using Negative-Refractive-Index Transmission-Line Metamaterials. , 2005, , 53-91.		8
159	A near-field probe for subwavelength-focused imaging. , 2009, , .		8
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