Anthony Grbic

List of Publications by Year
in descending order

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220	9,089	81839	43868
papers	citations	39 h-index	91 g-index

221	221	221	5164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metamaterial Huygensâ€™ Surfaces: Tailoring Wave Fronts with Reflectionless Sheets. Physical Review Letters, 2013, 110, 197401.	2.9	1,311
2	Overcoming the Diffraction Limit with a Planar Left-Handed Transmission-Line Lens. Physical Review Letters, 2004, 92, 117403.	2.9	683
3	Experimental verification of backward-wave radiation from a negative refractive index metamaterial. Journal of Applied Physics, 2002, 92, 5930-5935.	1.1	477
4	Bianisotropic Metasurfaces for Optimal Polarization Control: Analysis and Synthesis. Physical Review Applied, 2014, 2, .	1.5	335
5	Millimeter-Wave Transmitarrays for Wavefront and Polarization Control. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4407-4417.	2.9	331
6	A Printed Leaky-Wave Antenna Based on a Sinusoidally-Modulated Reactance Surface. IEEE Transactions on Antennas and Propagation, 2011, 59, 2087-2096.	3.1	317
7	High Performance Bianisotropic Metasurfaces: Asymmetric Transmission of Light. Physical Review Letters, 2014, 113, 023902.	2.9	317
8	Efficient Light Bending with Isotropic Metamaterial Huygensâ€™ Surfaces. Nano Letters, 2014, 14, 2491-2497.	4.5	310
9	Cascaded metasurfaces for complete phase and polarization control. Applied Physics Letters, 2013, 102, .	1.5	280
10	Near-Field Plates: Subdiffraction Focusing with Patterned Surfaces. Science, 2008, 320, 511-513.	6.0	214
11	A Printed, Broadband Luneburg Lens Antenna. IEEE Transactions on Antennas and Propagation, 2010, 58, 3055-3059.	3.1	205
12	Periodic analysis of a 2-D negative refractive index transmission line structure. IEEE Transactions on Antennas and Propagation, 2003, 51, 2604-2611.	3.1	170
13	Controlling Vector Bessel Beams with Metasurfaces. Physical Review Applied, 2014, 2, .	1.5	170
14	Roadmap on metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 073002.	1.0	146
15	Generation of Propagating Bessel Beams Using Leaky-Wave Modes. IEEE Transactions on Antennas and Propagation, 2012, 60, 3605-3613.	3.1	122
16	Roadmap on optical metamaterials. Journal of Optics (United Kingdom), 2016, 18, 093005.	1.0	118
17	Modeling and Analysis of Printed-Circuit Tensor Impedance Surfaces. IEEE Transactions on Antennas and Propagation, 2013, 61, 211-220.	3.1	111
18	Growing evanescent waves in negative-refractive-index transmission-line media. Applied Physics Letters, 2003, 82, 1815-1817.	1.5	108

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19	Serrodyne Frequency Translation Using Time-Modulated Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 1599-1606.	3.1	108
20	Generation of Propagating Bessel Beams Using Leaky-Wave Modes: Experimental Validation. IEEE Transactions on Antennas and Propagation, 2012, 60, 2645-2653.	3.1	105
21	Leaky CPW-based slot antenna arrays for millimeter-wave applications. IEEE Transactions on Antennas and Propagation, 2002, 50, 1494-1504.	3.1	104
22	Effective Surface Impedance of a Printed-Circuit Tensor Impedance Surface (PCTIS). IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1403-1413.	2.9	94
23	Near-Field Focusing Plates and Their Design. IEEE Transactions on Antennas and Propagation, 2008, 56, 3159-3165.	3.1	89
24	Planar Lens Antennas of Subwavelength Thickness: Collimating Leaky-Waves With Metasurfaces. IEEE Transactions on Antennas and Propagation, 2015, 63, 3248-3253.	3.1	80
25	A backward-wave antenna based on negative refractive index L-C networks. , 0, , .		77
26	Transformation Electromagnetics Devices Based on Printed-Circuit Tensor Impedance Surfaces. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1102-1111.	2.9	77
27	Polarization rotation with ultra-thin bianisotropic metasurfaces. Optica, 2016, 3, 427.	4.8	74
28	Compound Metaoptics for Amplitude and Phase Control of Wave Fronts. Physical Review Letters, 2019, 122, 113901.	2.9	72
29	A Power Link Study of Wireless Non-Radiative Power Transfer Systems Using Resonant Shielded Loops. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2125-2136.	3.5	71
30	Negative refraction, growing evanescent waves, and sub-diffraction imaging in loaded transmission-line metamaterials. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 2297-2305.	2.9	68
31	A Reflective Polarization Converting Metasurface at <inline-formula> <tex-math notation="LaTeX">${X}$ </tex-math> </inline-formula>-Band Frequencies. IEEE Transactions on Antennas and Propagation, 2018, 66, 3213-3218.	3.1	62
32	Tunable Metasurfaces: A Polarization Rotator Design. Physical Review X, 2019, 9, .	2.8	62
33	Tensor Transmission-Line Metamaterials. IEEE Transactions on Antennas and Propagation, 2010, 58, 1559-1566.	3.1	56
34	Perfectly Reflecting Metasurface Reflectarrays: Mutual Coupling Modeling Between Unique Elements Through Homogenization. IEEE Transactions on Antennas and Propagation, 2021, 69, 122-134.	3.1	53
35	Negative-refractive-index transmission-line metamaterials and enabling electromagnetic applications. , 2004, , .		52
36	A Lumped-Element Unit Cell for Beam-Forming Networks and Its Application to a Miniaturized Butler Matrix. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1477-1487.	2.9	51

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37	Higher-Order Leaky-Mode Bessel-Beam Launcher. IEEE Transactions on Antennas and Propagation, 2016, 64, 904-913.	3.1	50
38	Dispersion analysis of a microstrip-based negative refractive index periodic structure. IEEE Microwave and Wireless Components Letters, 2003, 13, 155-157.	2.0	44
39	Numerical Analysis and Design of Single-Source Multicoil TMS for Deep and Focused Brain Stimulation. IEEE Transactions on Biomedical Engineering, 2013, 60, 2771-2782.	2.5	44
40	Near-Field Plates: Metamaterial Surfaces/Arrays for Subwavelength Focusing and Probing. Proceedings of the IEEE, 2011, 99, 1806-1815.	16.4	43
41	Generating Evanescent Bessel Beams Using Near-Field Plates. IEEE Transactions on Antennas and Propagation, 2012, 60, 3155-3164.	3.1	43
42	Dual-Band, Orthogonally-Polarized LP-to-CP Converter for SatCom Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 6764-6776.	3.1	41
43	Tailoring the Phase and Power Flow of Electromagnetic Fields. Physical Review Letters, 2013, 111, 233904.	2.9	39
44	Generating stable tractor beams with dielectric metasurfaces. Physical Review B, 2015, 91, .	1.1	38
45	Breaking Malusâ€™ law: Highly efficient, broadband, and angular robust asymmetric light transmitting metasurface. Laser and Photonics Reviews, 2016, 10, 791-798.	4.4	38
46	Energy-Autonomous Wireless Communication for Millimeter-Scale Internet-of-Things Sensor Nodes. IEEE Journal on Selected Areas in Communications, 2016, 34, 3962-3977.	9.7	38
47	The Effects of Spatial Dispersion on Power Flow Along a Printed-Circuit Tensor Impedance Surface. IEEE Transactions on Antennas and Propagation, 2014, 62, 1464-1469.	3.1	36
48	Space-Time-Modulated Metasurfaces with Spatial Discretization: Free-Space <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>N</mml:mi></mml:math> -Path Systems. Physical Review Applied, 2020, 14, .	1.5	36
49	Subwavelength focusing using a negative-refractive-index transmission line lens. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 186-189.	2.4	35
50	Direct Transfer Patterning of Electrically Small Antennas onto Threeâ€Dimensionally Contoured Substrates. Advanced Materials, 2012, 24, 1166-1170.	11.1	32
51	Comprehensive Analysis and Measurement of Frequency-Tuned and Impedance-Tuned Wireless Non-Radiative Power-Transfer Systems. IEEE Antennas and Propagation Magazine, 2014, 56, 131-148.	1.2	31
52	Wireless Links in the Radiative Near Field via Bessel Beams. Physical Review Applied, 2016, 6, .	1.5	31
53	Practical limitations of subwavelength resolution using negative-refractive-index transmission-line lenses. IEEE Transactions on Antennas and Propagation, 2005, 53, 3201-3209.	3.1	30
54	2-D Van Atta Array of Wideband, Wideangle Slots for Radiative Wireless Power Transfer Systems. IEEE Transactions on Antennas and Propagation, 2018, 66, 4577-4585.	3.1	30

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55	Accelerating light with metasurfaces. Optica, 2018, 5, 678.	4.8	30
56	The NUMAchine multiprocessor. , 0, , .		29
57	A Transponder-Based, Nonradiative Wireless Power Transfer. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1150-1153.	2.4	29
58	A Broadband Three-Dimensionally Isotropic Negative-Refractive-Index Medium. IEEE Transactions on Antennas and Propagation, 2012, 60, 3661-3669.	3.1	29
59	Synchrotron radiation from an accelerating light pulse. Science, 2018, 362, 439-442.	6.0	29
60	Emulating Nonreciprocity with Spatially Dispersive Metasurfaces Excited at Oblique Incidence. Physical Review Letters, 2016, 117, 077401.	2.9	28
61	Analysis and synthesis of cascaded metasurfaces using wave matrices. Physical Review B, 2017, 95, .	1.1	27
62	Near-Field Focusing With a Corrugated Surface. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 421-424.	2.4	26
63	Design and Free-Space Measurements of Broadband, Low-Loss Negative-Permeability and Negative-Index Media. IEEE Transactions on Antennas and Propagation, 2011, 59, 2989-2997.	3.1	26
64	Comprehensive Analysis and Measurement of Frequency-Tuned and Impedance-Tuned Wireless Non-Radiative Power-Transfer Systems. IEEE Antennas and Propagation Magazine, 2014, 56, 44-60.	1.2	26
65	Broadband, Multiband, and Multifunctional All-Dielectric Metasurfaces. Physical Review Applied, 2019, 11, .	1.5	26
66	Arbitrary Beam Shaping Using 1-D Impedance Surfaces Supporting Leaky Waves. IEEE Transactions on Antennas and Propagation, 2015, 63, 2439-2448.	3.1	25
67	Circuit and System Designs of Ultra-Low Power Sensor Nodes With Illustration in a Miniaturized GNSS Logger for Position Tracking: Part Iâ€"Analog Circuit Techniques. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2237-2249.	3.5	25
68	Subwavelength focusing using a negative-refractive-index transmission line lens. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 186-189.	2.4	23
69	Magnet-free nonreciprocal bianisotropic metasurfaces. Physical Review B, 2016, 94, .	1.1	23
70	A Printed Beam-Shifting Slab Designed Using Tensor Transmission-Line Metamaterials. IEEE Transactions on Antennas and Propagation, 2013, 61, 728-734.	3.1	22
71	Nonresonant modes in plasmonic holey metasurfaces for the design of artificial flat lenses. Optics Letters, 2017, 42, 2026.	1.7	22
72	An Experimental Concentric Near-Field Plate. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3982-3988.	2.9	21

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73	Experimental demonstration of highly localized pulses (X waves) at microwave frequencies. Physical Review B, 2018, 97, .	1.1	21
74	Ultrathin active polarization-selective metasurface at X-band frequencies. Physical Review B, 2019, 100, .	1.1	21
75	Antireflection and Wavefront Manipulation with Cascaded Metasurfaces. Physical Review Applied, 2020, 14, .	1.5	21
76	Design of Planar and Conformal, Passive, Lossless Metasurfaces That Beamform. IEEE Journal of Microwaves, 2022, 2, 401-418.	4.9	21
77	Unidirectional wireless power transfer using near-field plates. Journal of Applied Physics, 2015, 117, 184903.	1.1	20
78	An analytical investigation of near-field plates. Metamaterials, 2010, 4, 104-111.	2.2	19
79	Synthesis of Tensor Impedance Surfaces to Control Phase and Power Flow of Guided Waves. IEEE Transactions on Antennas and Propagation, 2015, 63, 3956-3962.	3.1	19
80	Design of Self-Matched Planar Loop Resonators for Wireless Nonradiative Power Transfer. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 909-919.	2.9	18
81	Circuit and System Designs of Ultra-Low Power Sensor Nodes With Illustration in a Miniaturized GNSS Logger for Position Tracking: Part IIâ€"Data Communication, Energy Harvesting, Power Management, and Digital Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2250-2262.	3.5	18
82	Modelling cascaded cylindrical metasurfaces using sheet impedances and a transmission matrix formulation. IET Microwaves, Antennas and Propagation, 2018, 12, 1041-1047.	0.7	18
83	Tailoring near-field patterns with concentrically corrugated plates. Applied Physics Letters, 2009, 95, .	1.5	17
84	Planar Shielded-Loop Resonators. IEEE Transactions on Antennas and Propagation, 2014, 62, 3310-3320.	3.1	17
85	Controlling Leaky Waves With 1-D Cascaded Metasurfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 2143-2146.	3.1	17
86	Recent advances in bianisotropic boundary conditions: theory, capabilities, realizations, and applications. Nanophotonics, 2021, 10, 4075-4112.	2.9	17
87	Serrodyne frequency translation using time-modulated metasurfaces. , 2019, , .		16
88	Super-Resolution Focusing Using Volumetric, Broadband NRI Media. IEEE Transactions on Antennas and Propagation, 2008, 56, 2963-2969.	3.1	15
89	Analytical and experimental characterization of metasurfaces with normal polarizability. Physical Review B, 2016, 93, .	1.1	15
90	Radiative Wireless Power-Transfer System Using Wideband, Wide-Angle Slot Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 2975-2982.	3.1	15

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91	X Wave Radiator Implemented With 3-D Printed Metamaterials. IEEE Transactions on Antennas and Propagation, 2020, 68, 5478-5486.	3.1	15
92	The Design of Dual Band Stacked Metasurfaces Using Integral Equations. IEEE Transactions on Antennas and Propagation, 2022, 70, 4576-4588.	3.1	15
93	Planar Near-Field Plates. IEEE Transactions on Antennas and Propagation, 2013, 61, 5425-5434.	3.1	14
94	The Design of Broadband, Volumetric NRI Media Using Multiconductor Transmission-Line Analysis. IEEE Transactions on Antennas and Propagation, 2010, 58, 1144-1154.	3.1	13
95	Alternative Material Parameters for Transformation Electromagnetics Designs. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1414-1424.	2.9	13
96	Transformation electromagnetics devices using tensor impedance surfaces. , 2013, , .		13
97	Besselâ€“Gauss Beam Launchers for Wireless Power Transfer. IEEE Open Journal of Antennas and Propagation, 2021, 2, 654-663.	2.5	13
98	Full-Wave Verification of Tensor TL Metamaterials. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 48-51.	2.4	12
99	A unidirectional subwavelength focusing near-field plate. Journal of Applied Physics, 2014, 115, 044904.	1.1	12
100	A Transparent, Time-Modulated Metasurface. , 2018, , .		12
101	Analysis and Synthesis of Cascaded Cylindrical Metasurfaces Using a Wave Matrix Approach. IEEE Transactions on Antennas and Propagation, 2021, 69, 6546-6559.	3.1	12
102	Shielded loops for wireless non-radiative power transfer. , 2010, , .		11
103	A Circuit Model for Electrically Small Antennas. IEEE Transactions on Antennas and Propagation, 2012, 60, 1671-1683.	3.1	11
104	Millimeter-Scale Node-to-Node Radio Using a Carrier Frequency-Interlocking IF Receiver for a Fully Integrated 4$imes$ 4$imes$ 4 mm³ Wireless Sensor Node. IEEE Journal of Solid-State Circuits, 2020, 55, 1128-1138.	3.5	11
105	An Electromagnetic Crystal Green Function Multiple Scattering Technique for Arbitrary Polarizations, Lattices, and Defects. Journal of Lightwave Technology, 2007, 25, 571-583.	2.7	10
106	A printed antenna beam former implemented using tensor transmission-line metamaterials. , 2014, , .		10
107	Accelerated N-Path Network Analysis Using the Floquet Scattering Matrix Method. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1248-1259.	2.9	10
108	Inverse Design of Multi-Input Multi-Output 2-D Metastructured Devices. IEEE Transactions on Antennas and Propagation, 2022, 70, 3495-3505.	3.1	10

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109	Allâ€Dielectric Metaâ€Optics for Highâ€Efficiency Independent Amplitude and Phase Manipulation. Advanced Photonics Research, 2022, 3, .	1.7	10
110	A physical explanation for the all-angle reflectionless property of transformation optics designs. Journal of Optics (United Kingdom), 2016, 18, 044020.	1.0	9
111	Designing Anisotropic, Inhomogeneous Metamaterial Devices Through Optimization. IEEE Transactions on Antennas and Propagation, 2019, 67, 998-1009.	3.1	9
112	Modal Network Formulation for the Analysis and Design of Mode-Converting Metasurfaces in Cylindrical Waveguides. IEEE Transactions on Antennas and Propagation, 2021, 69, 4598-4611.	3.1	9
113	A 2-D Composite Medium Exhibiting Broadband Negative Permittivity and Permeability. , 2006, , .		8
114	Cylindrical Vector Beams for Wireless Power Transfer. IEEE Transactions on Antennas and Propagation, 2021, 69, 1716-1727.	3.1	8
115	Ultra-Low-Profile Continuous Transverse Stub Array for SatCom Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 4459-4471.	3.1	8
116	Growing evanescent waves in continuous transmission-line grid media. IEEE Microwave and Wireless Components Letters, 2005, 15, 131-133.	2.0	7
117	Subwavelength focusing with a corrugated metallic plate. , 2009, , .		7
118	Anisotropic Inhomogeneous Metamaterials Using Nonuniform Transmission-Line Grids Aligned With the Principal Axes. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 358-361.	2.4	7
119	Power link budget for propagating Bessel beams. , 2013, , .		7
120	Systematic design of a class of wideband circular polarizers using dispersion engineering. , 2017, , .		7
121	Lossless Complex-Valued Optical-Field Control with Compound Metaoptics. Physical Review Applied, 2021, 15, .	1.5	7
122	A broadband three-dimensional isotropic NRI medium. , 2010, , .		6
123	Homogenization of tensor TL metamaterials. Metamaterials, 2011, 5, 81-89.	2.2	6
124	Analytical modeling of a printed-circuit tensor impedance surface. , 2012, , .		6
125	Enhanced resonant transmission of electromagnetic radiation through a pair of subwavelength slits. Applied Physics Letters, 2013, 103, 041104.	1.5	6
126	A Planar, Broadband, Metamaterial-Based, Transmission-Line Beamformer. IEEE Transactions on Antennas and Propagation, 2018, 66, 4844-4853.	3.1	6

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127	An $8imes 4$ Continuous Transverse Stub Array Fed by Coaxial Ports. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1303-1307.	2.4	6
128	Design of Multilayer, Dualband Metasurface Reflectarrays. , 2020, , .		6
129	Fundamentals of Lossless, Reciprocal Bianisotropic Metasurface Design. Photonics, 2021, 8, 197.	0.9	6
130	Super-Resolving Negative-Refractive-Index Transmission-Line Lenses. , 2005, , 93-169.		5
131	Novel methods to analyze and fabricate electrically small antennas. , 2011, , .		5
132	A lumped-element directional coupler with arbitrary output amplitude and phase distributions. , 2012, , .		5
133	Planar shielded-loop resonators for wireless non-radiative power transfer. , 2013, , .		5
134	A broadband, bessel beam radiator. , 2016, , .		5
135	Optimization as an alternative to transformation optics. , 2016, , .		5
136	A compact, metamaterial beamformer designed through optimization. , 2016, , .		5
137	A Rigorous Approach to Designing Reflectarrays. , 2019, , .		5
138	A Metasurface Based Mode Converter. , 2019, , .		5
139	Efficient Computation of Spatially Discrete Traveling-Wave Modulated Structures. IEEE Transactions on Antennas and Propagation, 2021, 69, 8512-8525.	3.1	5
140	Unit Cell Polarizability and Sheet Impedance Extraction in Aperiodic Environments. , 2022, , .		5
141	Near-field focusing plates. , 2008, , .		4
142	A 2D broadband, printed Luneburg lens antenna. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	4
143	Dispersion analysis of printed-circuit tensor impedance surfaces. , 2012, , .		4
144	Cylindrical Aperture Synthesis with Metasurfaces. , 2020, , .		4

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145	Dielectric Resonator Antenna-Coupled Antimonide-Based Detectors (DRACAD) for the Infrared. IEEE Transactions on Antennas and Propagation, 2021, 69, 6762-6771.	3.1	4
146	Antenna Aperture Synthesis Using Mode-Converting Metasurfaces. IEEE Open Journal of Antennas and Propagation, 2021, 2, 726-737.	2.5	4
147	Passive Metasurface Antenna with Perfect Aperture Efficiency. , 2021, , .		4
148	Near-Reflectionless Wireless Transmission Into the Body With Cascaded Metasurfaces. IEEE Transactions on Antennas and Propagation, 2022, 70, 8379-8388.	3.1	4
149	Corrections to â€œNegative Refraction, Growing Evanescent Waves, and Sub-Diffraction Imaging in Loaded Transmission-Line Metamaterialsâ€• IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1580-1580.	2.9	3
150	A printed-circuit implementation of a broadband volumetric negative-refractive-index medium. , 2007, , .		3
151	Broadband, low-loss negative-permeability and negative-index media for free-space applications. , 2009, , .		3
152	A simulation of focal brain stimulation using metamaterial lenses. , 2010, , .		3
153	Electron Beam Coupling to an NRI Transmission-Line Metamaterial. IEEE Transactions on Plasma Science, 2015, 43, 796-803.	0.6	3
154	Analysis and synthesis of cascaded metasurfaces using wave matrices. , 2016, , .		3
155	A phase-tunable, liquid crystal-based metasurface. , 2016, , .		3
156	A tunable polarization rotator based on metasurfaces. , 2017, , .		3
157	All-dielectric bianisotropic metasurfaces. , 2017, , .		3
158	Multifunctional All-Dielectric Metasurfaces. , 2018, , .		3
159	Time-Varying Phase Control for Frequency Translation. , 2019, , .		3
160	A Spatio-Temporally Modulated Metasurface as a Free-Space N-Path System. , 2020, , .		3
161	Circuit-based Inverse Design of Metastructured MIMO Devices. , 2021, , .		3
162	Passive Reflective Metasurfaces for Far-Field Beamforming. , 2021, , .		3

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163	A Reflective Metasurface for Perfect Cylindrical to Planar Wavefront Transformation. , 2020, , .		3
164	Antenna Beamforming With Multiple-Input, Multiple-Output Metastructures: Controlling the Amplitude and Phase of Antenna Aperture Fields. IEEE Antennas and Propagation Magazine, 2022, 64, 63-72.	1.2	3
165	A concentrically corrugated near-field plate. , 2010, , .		2
166	The design and performance of an isotropic negative-refractive-index metamaterial lens. , 2011, , .		2
167	Design of a planar near-field plate. , 2012, , .		2
168	Experimental generation of propagating Bessel beams with a low-profile leaky radial waveguide. , 2012, , .		2
169	Metamaterial Huygens' surfaces. , 2013, , .		2
170	Transformation electromagnetics devices based on tensor impedance surfaces. , 2013, , .		2
171	Arbitrary leaky-wave antenna patterns with stacked metasurfaces. , 2015, , .		2
172	Three-dimensional metasurfaces. , 2016, , .		2
173	Long slot Van Atta array for far-field wireless power transfer. , 2017, , .		2
174	Ultra-Wide Band Non-Dispersive Leaky-Wave Antenna Based on Glide-Symmetric Meandered Transmission Lines. , 2020, , .		2
175	Modified Floquet Boundary Condition for Open Boundary Problems with N-Path Symmetry. , 2020, , .		2
176	A 3-D negative-refractive-index transmission-line medium. , 0, , .		1
177	Realizing Huygens sources through spherical sheet impedances. , 2012, , .		1
178	Generation of non-diffractive bessel beams using leaky-wave modes. , 2014, , .		1
179	A backward wave amplifier based on an NRI transmission-line metamaterial. , 2014, , .		1
180	Towards the analytical design of tensor metasurfaces. , 2015, , .		1

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181	Wireless power transfer with Bessel beams. , 2016, , .		1
182	Metamaterial-based bessel beam launcher. , 2017, , .		1
183	Metamaterial bessel beam radiator. , 2017, , .		1
184	Cylindrical vector beams for wireless power transfer. , 2017, , .		1
185	Application of the Discrete Hankel Transform to Cylindrical Waveguides Structures. , 2018, , .		1
186	Analytic Design Of Dual-Band, Dual-Polarized Lp-to-Cp Polarization Converters. , 2020, , .		1
187	2-D Circuit-Based Bianisotropic Omega Media. IEEE Transactions on Antennas and Propagation, 2020, 68, 7395-7405.	3.1	1
188	Efficient Subharmonic Frequency Conversion Using Space-Time Induced Bound States in the Continuum. , 2021, , .		1
189	A novel leaky millimeter-wave linear slot array. , 2000, , .		0
190	Design of high-speed and flexible controllers in programmable logic devices. , 0, , .		0
191	Enabling electromagnetic applications of negative-refractive-index transmission-line metamaterials part I. , 2004, , .		0
192	Reply to "Comments on "Subwavelength focusing using a negative-refractive-index transmission line lens"". IEEE Antennas and Wireless Propagation Letters, 2007, 6, 661-661.	2.4	0
193	A printed spherical helix antenna. , 2010, , .		0
194	A beam-shifting slab implemented using printed, tensor TL metamaterials. , 2012, , .		0
195	A leaky radial waveguide for generating propagating Bessel beams. , 2012, , .		0
196	A compact directional coupler for use in beam-forming networks. , 2012, , .		0
197	Lumped-element unit cell for designing beam forming networks. , 2012, , .		0
198	Patterning: Direct Transfer Patterning of Electrically Small Antennas onto Three-Dimensionally Contoured Substrates (Adv. Mater. 9/2012). Advanced Materials, 2012, 24, 1138-1138.	11.1	0

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199	Corrections to â€œEffective Surface Impedance of a Printed-Circuit Tensor Impedance Surface (PCTIS)â€• [Apr 13 1403-1413]. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3488-3488.	2.9	0
200	Controlling the phase and power flow of electromagnetic fields. , 2013, , .		0
201	Generating Bessel beams using an electrically-large annular slot. , 2013, , .		0
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