George Eleftheriades

List of Publications by Citations

240 papers	6,723 citations	43 h-index	74 g-index
289 ext. papers	8,388 ext. citations	4.7 avg, IF	6.93 L-index

#	Paper	IF	Citations
240	Overcoming the diffraction limit with a planar left-handed transmission-line lens. *Physical Review Letters*, **2004**, 92, 117403	7.4	564
239	Experimental verification of backward-wave radiation from a negative refractive index metamaterial. *Journal of Applied Physics*, **2002**, 92, 5930-5935	2.5	385
238	Discontinuous electromagnetic fields using orthogonal electric and magnetic currents for wavefront manipulation. *Optics Express*, **2013**, 21, 14409-29	3.3	201
237	Huygens metasurfaces via the equivalence principle: design and applications. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, A31	1.7	186
236	Synthesis of Passive Lossless Metasurfaces Using Auxiliary Fields for Reflectionless Beam Splitting and Perfect Reflection. *Physical Review Letters*, **2016**, 117, 256103	7.4	152
235	A Compact Tri-Band Monopole Antenna With Single-Cell Metamaterial Loading. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1031-1038	4.9	148
234	. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5680-5695	4.9	147
233	. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3880-3895	4.9	135
232	Cavity-excited Huygens' metasurface antennas for near-unity aperture illumination efficiency from arbitrarily large apertures. *Nature Communications*, **2016**, 7, 10360	17.4	122
231	A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *IEEE Antennas and Wireless Propagation Letters*, **2009**, 8, 295-298	3.8	118
230	. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 1293-1296	3.8	114
229	Perfect Anomalous Reflection with a Bipartite Huygens Metasurface. *Physical Review X*, **2018**, 8,	9.1	111
228	A Folded-Monopole Model for Electrically Small NRI-TL Metamaterial Antennas. *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 425-428	3.8	101
227	Experimental and theoretical verification of focusing in a large, periodically loaded transmission line negative refractive index metamaterial. *Optics Express*, **2003**, 11, 696-708	3.3	98
226	Growing evanescent waves in negative-refractive-index transmission-line media. *Applied Physics Letters*, **2003**, 82, 1815-1817	3.4	92
225	Theory, design, and experimental verification of a reflectionless bianisotropic Huygens' metasurface for wide-angle refraction. *Physical Review B*, **2018**, 97,	3.3	85
224	Optical Huygens Metasurfaces with Independent Control of the Magnitude and Phase of the Local Reflection Coefficients. *Physical Review X*, **2014**, 4,	9.1	84

223	An optical super-microscope for far-field, real-time imaging beyond the diffraction limit. *Scientific Reports*, **2013**, 3, 1715	4.9	82
222	A Compact Multiband Monopole Antenna With a Defected Ground Plane. *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 652-655	3.8	81
221	Huygens□metasurfaces from microwaves to optics: a review. *Nanophotonics*, **2018**, 7, 1207-1231	6.3	80
220	Experimental Demonstration of Active Electromagnetic Cloaking. *Physical Review X*, **2013**, 3,	9.1	76
219	Realizing Non-Foster Reactive Elements Using Negative-Group-Delay Networks. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 4322-4332	4.1	75
218	An isotropic three-dimensional negative-refractive-index transmission-line metamaterial. *Journal of Applied Physics*, **2005**, 98, 043106	2.5	75
217	A Generalized Negative-Refractive-Index Transmission-Line (NRI□TL) Metamaterial for Dual-Band and Quad-Band Applications. *IEEE Microwave and Wireless Components Letters*, **2007**, 17, 415-417	2.6	74
216	A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *IEEE Antennas and Wireless Propagation Letters*, **2009**, 8, 258-261	3.8	70
215	Roadmap on metasurfaces. *Journal of Optics (United Kingdom)*, **2019**, 21, 073002	1.7	69
214	Spatially shifted beam approach to subwavelength focusing. *Physical Review Letters*, **2008**, 101, 113901	7.4	69
213	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	4.9	66
212	. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3928-3938	4.9	66
211	Design of unit cells and demonstration of methods for synthesizing Huygens metasurfaces. *Photonics and Nanostructures - Fundamentals and Applications*, **2014**, 12, 360-375	2.6	66
210	An Active Electromagnetic Cloak Using the Equivalence Principle. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 1226-1229	3.8	65
209	A CPS Leaky-Wave Antenna With Reduced Beam Squinting Using NRI-TL Metamaterials. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 708-721	4.9	62
208	Polarization Control Using Tensor Huygens Surfaces. *IEEE Transactions on Antennas and Propagation* , **2014**, 62, 6155-6168	4.9	61
207	Roadmap on superoscillations. *Journal of Optics (United Kingdom)*, **2019**, 21, 053002	1.7	59
206	Dirac leaky-wave antennas for continuous beam scanning from photonic crystals. *Nature Communications*, **2015**, 6, 5855	17.4	59

205	Circuit Modeling of Huygens Surfaces. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1642-1648	3.8	52
204	A Compact Frequency-Reconfigurable Metamaterial-Inspired Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1154-1157	3.8	48
203	. *IEEE Antennas and Wireless Propagation Letters*, **2010**, 9, 315-318	3.8	46
202	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	4.1	46
201	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	4.9	45
200	A Compact Highly Reconfigurable CMOS MMIC Directional Coupler. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 305-319	4.1	45
199	Beam-Squinting Reduction of Leaky-Wave Antennas Using Huygens Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 978-992	4.9	44
198	Multiband Compact Printed Dipole Antennas Using NRI-TL Metamaterial Loading. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 5613-5626	4.9	44
197	Floquet-Bloch analysis of refracting Huygens metasurfaces. *Physical Review B*, **2014**, 90,	3.3	43
196	Holography-Inspired Screens for Sub-Wavelength Focusing in the Near Field. *IEEE Microwave and Wireless Components Letters*, **2008**, 18, 236-238	2.6	42
195	Enabling RF/microwave devices using negative-refractive-index transmission-line (NRI-TL) metamaterials. *IEEE Antennas and Propagation Magazine*, **2007**, 49, 34-51	1.7	42
194	Polarization Considerations for Scalar Huygens Metasurfaces and Characterization for 2-D Refraction. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 913-924	4.1	41
193	Sub-Wavelength Focusing at the Multi-Wavelength Range Using Superoscillations: An Experimental Demonstration. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 4766-4776	4.9	41
192	EM transmission-line metamaterials. *Materials Today*, **2009**, 12, 30-41	21.8	41
191	Generalized Space-Time-Periodic Diffraction Gratings: Theory and Applications. *Physical Review Applied*, **2019**, 12,	4.3	40
190	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	3.8	40
189	Vanadium-dioxide-assisted digital optical metasurfaces for dynamic wavefront engineering. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 980	1.7	40
188	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	4.9	39

187	Mechanisms of subdiffraction free-space imaging using a transmission-line metamaterial superlens: An experimental verification. *Applied Physics Letters*, **2008**, 92, 131105	3.4	38
186	. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 108-120	4.9	38
185	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 2892-2903	4.9	37
184	Design and Experimental Verification of a Passive Huygens Metasurface Lens for Gain Enhancement of Frequency-Scanning Slotted-Waveguide Antennas. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 4678-4692	4.9	36
183	A Resonant Printed Monopole Antenna With an Embedded Non-Foster Matching Network. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 5363-5371	4.9	35
182	. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 1749-1756	4.9	34
181	Superresolution far-field imaging of complex objects using reduced superoscillating ripples. *Optica*, **2017**, 4, 1126	8.6	32
180	Bianisotropic Huygens Metasurface for Wideband Impedance Matching Between Two Dielectric Media. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 4729-4742	4.9	31
179	Ultra-wideband optical leaky-wave slot antennas. *Optics Express*, **2011**, 19, 12392-401	3.3	30
178	A Planar Electronically Steerable Patch Array Using Tunable PRI/NRI Phase Shifters. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 531-541	4.1	30
177	Analysis of Bandwidth and Loss in Negative-Refractive-Index Transmission-Line (NRI TL) Media Using Coupled Resonators. *IEEE Microwave and Wireless Components Letters*, **2007**, 17, 412-414	2.6	30
176	A two-dimensional uniplanar transmission-line metamaterial with a negative index of refraction. *New Journal of Physics*, **2005**, 7, 163-163	2.9	30
175	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 1114-1123	4.9	28
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173	Light concentration using hetero-junctions of anisotropic low permittivity metamaterials. *Light: Science and Applications*, **2013**, 2, e114-e114	16.7	28
172	Anisotropic Transmission-Line Metamaterials for 2-D Transformation Optics Applications. *Proceedings of the IEEE*, **2011**, 99, 1634-1645	14.3	28
171	Self and mutual admittance of slot antennas on a dielectric half-space. *Journal of Infrared, Millimeter and Terahertz Waves*, **1993**, 14, 1925-1946		28
170	Temporal Pulse Compression Beyond the Fourier Transform Limit. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 2173-2179	4.1	27

169	Full-Duplex Nonreciprocal Beam Steering by Time-Modulated Phase-Gradient Metasurfaces. *Physical Review Applied*, **2020**, 14,	4.3	25
168	2D and 3D sub-diffraction source imaging with a superoscillatory filter. *Optics Express*, **2013**, 21, 8142-56	3.3	25
167	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 6033-6042	4.9	25
166	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 780-789	4.9	24
165	Superoscillations without sidebands: power-efficient sub-diffraction imaging with propagating waves. *Scientific Reports*, **2015**, 5, 8449	4.9	24
164	Miniaturized Circularly Polarized Doppler Radar for Human Vital Sign Detection. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 7022-7030	4.9	23
163	Single- and Dual-Band Transparent Circularly Polarized Patch Antennas With Metamaterial Loading. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 470-473	3.8	23
162	Modal Analysis and Wave Propagation in Finite 2D Transmission-Line Metamaterials. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 1562-1570	4.9	23
161	Bianisotropic Huygens Metasurface Pairs for Nonlocal Power-Conserving Wave Transformations. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 1788-1792	3.8	22
160	A Compact Printed Antenna With an Embedded Double-Tuned Metamaterial Matching Network. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2354-2361	4.9	22
159	A three-dimensional isotropic transmission-line metamaterial topology for free-space excitation. *Applied Physics Letters*, **2008**, 92, 261106	3.4	22
158	A 0.13-mu m CMOS Phase Shifter Using Tunable Positive/Negative Refractive Index Transmission Lines. *IEEE Microwave and Wireless Components Letters*, **2006**, 16, 705-707	2.6	21
157	An ultra-short contra-directional coupler utilizing surface plasmon-polaritons at optical frequencies. *Optics Express*, **2006**, 14, 7279-90	3.3	21
156	. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 6935-6946	4.9	20
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154	Plasmonic meta-screen for alleviating the trade-offs in the near-field optics. *Optics Express*, **2009**, 17, 12351-61	3.3	20
153	Resonant modes in continuous metallic grids over ground and related spatial-filtering applications. *Journal of Applied Physics*, **2006**, 99, 083102	2.5	20
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151	Transforming Electromagnetics Using Metamaterials. *IEEE Microwave Magazine*, **2012**, 13, 26-38	1.2	18
150	Evanescent-to-propagating wave conversion in sub-wavelength metal-strip gratings. *IEEE Transactions on Microwave Theory and Techniques*, **2012**, 60, 3893-3907	4.1	16
149	Metamaterials: Fundamentals and Applications in the Microwave and Optical Regimes [Scanning the Issue]. *Proceedings of the IEEE*, **2011**, 99, 1618-1621	14.3	16
148	Two-dimensional subwavelength-focused imaging using a near-field probe at a λ/4 working distance. *Journal of Applied Physics*, **2010**, 107, 093102	2.5	16
147	On the Independence of the Excitation of Complex Modes in Isotropic Structures. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1567-1578	4.9	16
146	Highly efficient all-dielectric optical tensor impedance metasurfaces for chiral polarization control. *Optics Letters*, **2016**, 41, 4831-4834	3	16
145	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 7382-7394	4.9	15
144	A Negative-Refractive-Index Metamaterial for Incident Plane Waves of Arbitrary Polarization. *IEEE Antennas and Wireless Propagation Letters*, **2007**, 6, 28-32	3.8	15
143	Triangular-Mesh-Based FDTD Analysis of Two-Dimensional Plasmonic Structures Supporting Backward Waves at Optical Frequencies. *Journal of Lightwave Technology*, **2007**, 25, 938-945	4	15
142	Full-duplex reflective beamsteering metasurface featuring magnetless nonreciprocal amplification. *Nature Communications*, **2021**, 12, 4414	17.4	14
141	Broadband superoscillation brings a wave into perfect three-dimensional focus. *Physical Review B*, **2017**, 95,	3.3	13
140	Superoscillatory Radar Imaging: Improving Radar Range Resolution Beyond Fundamental Bandwidth Limitations. *IEEE Microwave and Wireless Components Letters*, **2012**, 22, 147-149	2.6	13
139	Two-Dimensional Subwavelength Focusing Using a Slotted Meta-Screen. *IEEE Microwave and Wireless Components Letters*, **2009**, 19, 137-139	2.6	13
138	Miniaturized microwave components and antennas using negative-refractive-index transmission-line (NRI-TL) metamaterials. *Metamaterials*, **2007**, 1, 53-61		13
137	Programmable nonreciprocal meta-prism. *Scientific Reports*, **2021**, 11, 7377	4.9	13
136	Meta-screens and near-field antenna-arrays: A new perspective on subwavelength focusing and imaging. *Metamaterials*, **2011**, 5, 97-106		12
135	Transmission-Line Metamaterials on a Skewed Lattice for Transformation Electromagnetics. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 3272-3282	4.1	12
134	A Near-Field Probe for Subwavelength-Focused Imaging. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 551-558	4.1	12

133	Resonance-cone focusing in a compensating bilayer of continuous hyperbolic microstrip grids. *Applied Physics Letters*, **2004**, 85, 1292-1294	3.4	12
132	Active Huygens' metasurfaces for RF waveform synthesis in a cavity **2016**,		12
131	Microwave Huygens Metasurfaces: Fundamentals and Applications. *IEEE Journal of Microwaves*, **2021**, 1, 374-388		12
130	. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 689-692	3.8	11
129	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	4.1	11
128	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1249-1260	4.9	11
127	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	3.8	10
126	An Ultra-Compact Microstrip Crossover Inspired by Contra-Directional Even and Odd Mode Propagation. *IEEE Microwave and Wireless Components Letters*, **2014**, 24, 436-438	2.6	10
125	Two Compact, Wideband, and Decoupled Meander-Line Antennas Based on Metamaterial Concepts. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 1277-1280	3.8	10
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122	Design and Demonstration of Impedance-matched Dual-band Chiral Metasurfaces. *Scientific Reports*, **2018**, 8, 3449	4.9	9
121	Pencil-Beam Single-Point-Fed Dirac Leaky-Wave Antenna on a Transmission-Line Grid. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 545-548	3.8	9
120	Unilateral non-Foster elements using loss-compensated negative-group-delay networks for guided-wave applications **2013**,		9
119	A dual-band leaky-wave antenna based on generalized negative-refractive-index transmission-lines **2010**,		9
118	A quad-band bandpass filter using negative-refractive-index transmission-line (NRI-TL) metamaterials **2007**,		9
117	Microwave Space-Time-Modulated Metasurfaces. *ACS Photonics*,	6.3	9
116	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	4.9	9

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113	Design and Experimental Demonstration of Impedance-Matched Circular-Polarization-Selective Surfaces with Spin-Selective Phase Modulations. *Physical Review Applied*, **2020**, 13,	4.3	8
112	Design of thin infrared quarter-wave and half-wave plates using antenna-array sheets. *Optics Express*, **2013**, 21, 24468-74	3.3	8
111	Squint-free beamforming in series-fed antenna arrays using synthesized non-foster elements **2013**,		8
110	An Investigation of Printed Franklin Antennas at X-Band Using Artificial (Metamaterial) Phase-Shifting Lines. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 3118-3128	4.9	8
109	Active Huygens Box: Arbitrary Electromagnetic Wave Generation With an Electronically Controlled Metasurface. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 1455-1468	4.9	8
108	. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 4657-4669	4.9	8
107	A thin printed metasurface for microwave refraction **2014**,		7
106	FDTD Analysis of Sub-Wavelength Focusing Phenomena in Plasmonic Meta-Screens. *Journal of Lightwave Technology*, **2012**, 30, 2054-2061	4	7
105	Spatial Harmonics and Homogenization of Negative-Refractive-Index Transmission-Line Structures. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 1521-1531	4.1	7
104	A near-field probe for subwavelength-focused imaging **2009**,		7
103	Two-Dimensional Subwavelength-Focused Imaging Using a Near-Field End-Fire Antenna-Array Probe. *IEEE Antennas and Wireless Propagation Letters*, **2009**, 8, 1025-1028	3.8	7
102	Study of resonance-cone propagation in truncated hyperbolic metamaterial grids using transmission-line matrix simulations. *Journal of the Franklin Institute*, **2011**, 348, 1285-1297	4	7
101	Physical implementation of a generalized NRI-TL medium for quad-band applications **2007**,		7
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95	A simple active Huygens source for studying waveform synthesis with Huygens metasurfaces and antenna arrays **2015**,		6
94	Superdirectivity-based superoscillatory waveform design: A practical path to far-field sub-diffraction imaging **2014**,		6
93	Multimode Impedance Representation of Scattering, Absorption and Extinction Cross-Sectional Areas for Plasmonic Nanoparticles. *Journal of Lightwave Technology*, **2011**, 29, 2512-2526	4	6
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88	Pure and Linear Frequency-Conversion Temporal Metasurface. *Physical Review Applied*, **2021**, 15,	4.3	6
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84	A highly-efficient flat graded-index dielectric lens for millimeter-wave application **2017**,		5
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82	. *IEEE Access*, **2019**, 7, 168247-168260	3.5	5
81	A wide-angle impedance matching metasurface **2014**,		5
80	DIPOLE RADIATION NEAR ANISOTROPIC LOW-PERMITTIVITY MEDIA. *Progress in Electromagnetics Research*, **2013**, 142, 437-462	3.8	5

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76	Simple Analytical Dispersion Equations for the Shielded Sievenpiper Structure **2006**,		5
75	Surface-Waves Optimization for Beamforming with a Single Omega-bianisotropic Huygens' Metasurface **2020**,		5
74	Experimental Active Cloaking of a Metallic Polygonal Cylinder **2019**,		4
73	Analysis of anisotropic epsilon-near-zero hetero-junction lens for concentration and beam splitting. *Optics Letters*, **2015**, 40, 1010-3	3	4
72	Low-profile antennas with 100% aperture efficiency based on cavity-excited omega-type biansiotropic metasurfaces **2016**,		4
71	Peripherally Excited Phased Arrays: Beam Steering with Reduced Number of Antenna Elements **2019**,		4
70	Dual-Polarized Volumetric Transmission-Line Metamaterials. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 2550-2560	4.9	4
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66	A Multiband Monopole Antenna With an Embedded Reactance-Cancelling Transmission-Line Matching Network. *IEEE Antennas and Wireless Propagation Letters*, **2010**, 9, 1107-1110	3.8	4
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63	Compact Negative-Refractive-Index Transmission-Line (NRI-TL) coupler, filter and diplexer **2007**,		4
62	Microwave Devices and Antennas Using Negative-Refractive-Index Transmission-Line Metamaterials **2005**, 53-91		4

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60	Optically and radio frequency (RF) transparent meta-glass. *Nanophotonics*, **2020**, 9, 3889-3898	6.3	4
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58	Experimental Demonstration of the Huygens' Box: Arbitrary Waveform Generation in a Metallic Cavity **2018**,		4
57	Two-dimensional Center-fed Transmission-Line-Grid Antenna for Highly Efficient Broadside Radiation. *Physical Review Applied*, **2018**, 10,	4.3	3
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