

Do-Hoon Kwon

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

2,411
citations

257450

24
h-index

206112

48
g-index

94
all docs

94
docs citations

94
times ranked

1899
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical planar chiral metamaterial designs for strong circular dichroism and polarization rotation. Optics Express, 2008, 16, 11802.	3.4	213
2	Transformation optical designs for wave collimators, flat lenses and right-angle bends. New Journal of Physics, 2008, 10, 115023.	2.9	184
3	Transformation Electromagnetics: An Overview of the Theory and Applications. IEEE Antennas and Propagation Magazine, 2010, 52, 24-46.	1.4	184
4	Liquid crystal clad near-infrared metamaterials with tunable negative-zero-positive refractive indices. Optics Express, 2007, 15, 3342.	3.4	166
5	Polarization splitter and polarization rotator designs based on transformation optics. Optics Express, 2008, 16, 18731.	3.4	157
6	Two-dimensional eccentric elliptic electromagnetic cloaks. Applied Physics Letters, 2008, 92, .	3.3	133
7	Tunable optical negative-index metamaterials employing anisotropic liquid crystals. Applied Physics Letters, 2007, 91, .	3.3	125
8	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. Physical Review Applied, 2019, 11, .	3.8	108
9	Material parameter retrieval procedure for general bi-isotropic metamaterials and its application to optical chiral negative-index metamaterial design. Optics Express, 2008, 16, 11822.	3.4	87
10	Optimal Characteristics of an Arbitrary Receive Antenna. IEEE Transactions on Antennas and Propagation, 2009, 57, 3720-3727.	5.1	83
11	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. IEEE Transactions on Antennas and Propagation, 2021, 69, 1440-1454.	5.1	71
12	Near-infrared metamaterials with dual-band negative-index characteristics. Optics Express, 2007, 15, 1647.	3.4	64
13	Flat focusing lens designs having minimized reflection based on coordinate transformation techniques. Optics Express, 2009, 17, 7807.	3.4	62
14	Restoration of antenna parameters in scattering environments using electromagnetic cloaking. Applied Physics Letters, 2008, 92, .	3.3	53
15	On the radiation Q and the gain of crossed electric and magnetic dipole moments. IEEE Transactions on Antennas and Propagation, 2005, 53, 1681-1687.	5.1	47
16	Two-dimensional electromagnetic cloak having a uniform thickness for elliptic cylindrical regions. Applied Physics Letters, 2008, 92, .	3.3	39
17	Lossless Scalar Metasurfaces for Anomalous Reflection Based on Efficient Surface Field Optimization. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1149-1152.	4.0	37
18	Quasi-Conformal Transformation Optics Lenses for Conformal Arrays. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1125-1128.	4.0	36

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19	High-frequency asymptotic acceleration of the fast multipole method. <i>Radio Science</i> , 1996, 31, 1199-1206.	1.6	33
20	Perfect reflection control for impenetrable surfaces using surface waves of orthogonal polarization. <i>Physical Review B</i> , 2017, 96, .	3.2	33
21	Arbitrary beam control using passive lossless metasurfaces enabled by orthogonally polarized custom surface waves. <i>Physical Review B</i> , 2018, 97, .	3.2	31
22	Low-index metamaterial designs in the visible spectrum. <i>Optics Express</i> , 2007, 15, 9267.	3.4	30
23	Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 1115-1118.	4.0	27
24	Lossless tensor surface electromagnetic cloaking for large objects in free space. <i>Physical Review B</i> , 2018, 98, .	3.2	25
25	Toward the Realization of a Programmable Metasurface Absorber Enabled by Custom Integrated Circuit Technology. <i>IEEE Access</i> , 2020, 8, 92986-92998.	4.2	24
26	Ray analysis of electromagnetic field build-up and quality factor of electrically large shielded enclosures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1998, 40, 19-26.	2.2	23
27	Energy Storage and Radiation Q of Infinite Planar Dipole Phased Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 153-162.	5.1	22
28	Modulated Reactance Surfaces for Leaky-Wave Radiation Based on Complete Aperture Field Synthesis. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 5463-5477.	5.1	22
29	Impedance-matched three-dimensional beam expander and compressor designs via transformation optics. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	21
30	Transmission Magnitude and Phase Control for Polarization-Preserving Reflectionless Metasurfaces. <i>Physical Review Applied</i> , 2018, 9, .	3.8	21
31	Illusion electromagnetics for free-standing objects using passive lossless metasurfaces. <i>Physical Review B</i> , 2020, 101, .	3.2	20
32	Near-infrared metamaterial films with reconfigurable transmissive/reflective properties. <i>Optics Letters</i> , 2008, 33, 545.	3.3	19
33	Transformation Electromagnetic Design of an Embedded Monopole in a Ground Recess for Conformal Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010, 9, 432-435.	4.0	18
34	A wideband vertical transition between co-planar waveguide and parallel-strip transmission line. <i>IEEE Microwave and Wireless Components Letters</i> , 2005, 15, 591-593.	3.2	17
35	Non-Orthogonal Grids in Two-Dimensional Transmission-Line Metamaterials. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 4210-4218.	5.1	15
36	Planar Metasurface Design for Wide-Angle Refraction Using Interface Field Optimization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 428-432.	4.0	15

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37	Virtual circular array using material-embedded linear source distributions. Applied Physics Letters, 2009, 95, .	3.3	14
38	Microwave Metasurface Cloaking for Freestanding Objects. Physical Review Applied, 2022, 17, .	3.8	10
39	Comment on "Negative refractive index in artificial metamaterials". Optics Letters, 2007, 32, 1510.	3.3	9
40	Radiation Q Bounds for Small Electric Dipoles Over a Conducting Ground Plane. IEEE Transactions on Antennas and Propagation, 2014, 62, 2031-2040.	5.1	9
41	Large and efficient unidirectional plane-wave "surface-wave metasurface couplers based on modulated reactance surfaces. Physical Review B, 2021, 103, .	3.2	9
42	Realistic GPS Coverage Prediction for Dual-Polarized Controlled Reception Pattern Antennas. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1907-1910.	4.0	8
43	A wideband balun and vertical transition between conductor-backed CPW and parallel-strip transmission line. IEEE Microwave and Wireless Components Letters, 2006, 16, 152-154.	3.2	6
44	Low-profile embedded design of endfire scanning arrays with coordinate transformations. Journal of Applied Physics, 2010, 107, 034508.	2.5	6
45	Radiation Q and Gain of TM and TE Sources in Phase-Delayed Rotated Configurations. IEEE Transactions on Antennas and Propagation, 2008, 56, 2783-2786.	5.1	5
46	Transmission-line metamaterial design of an embedded-recessed line source. , 2011, , .		5
47	Impedance measurement approach for small antennas without direct cable attachment. , 2013, , .		5
48	Radiation Q of small vertically polarized dipole antennas over a ground plane. , 2013, , .		4
49	A vertical waveguide-to-suspended stripline transition. , 2014, , .		4
50	Effective Height, Receiving Area, and Receiving Efficiency of Infinite Planar Phased Array Elements. IEEE Transactions on Antennas and Propagation, 2015, 63, 2022-2031.	5.1	4
51	Bandwidth Limitations of Linearly Polarized Infinite Planar Phased Arrays in Free Space. IEEE Transactions on Antennas and Propagation, 2015, 63, 3423-3431.	5.1	4
52	Anisotropic liquid crystals for tunable optical negative-index metamaterials. , 2008, , .		3
53	Two-dimensional metamaterial designs for line-source radiation from a virtual location. , 2012, , .		3
54	Efficient Mode-Matching Analysis of 2-D Scattering by Periodic Array of Circular Cylinders. IEEE Transactions on Antennas and Propagation, 2013, 61, 1327-1333.	5.1	3

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55	Design and Realization of Virtual Line Source Using Metamaterials. IEEE Transactions on Antennas and Propagation, 2016, 64, 5220-5229.	5.1	3
56	Efficient Analytical Evaluation of Complex Dispersion Relations of a Multiple-Row Periodic Array of Magnetodielectric Circular Cylinders. IEEE Transactions on Antennas and Propagation, 2018, 66, 2449-2457.	5.1	3
57	Modulated Scalar Reactance Surfaces for Endfire Radiation Pattern Synthesis. IEEE Transactions on Antennas and Propagation, 2022, 70, 440-450.	5.1	3
58	Wideband balun and vertical transition between microstrip and parallel-strip transmission line. Microwave and Optical Technology Letters, 2007, 49, 1530-1532.	1.4	2
59	Analysis of maximum received power by arbitrary lossless arrays. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	2
60	Full-wave analysis of virtual probe radiation in transmission-line metamaterial. , 2013, , .		2
61	Channel Multiplexing Technique Utilizing Electric and Magnetic Components of a Radio Wave. IEEE Communications Letters, 2014, 18, 317-320.	4.1	2
62	Bandwidth bounds for small dipole antennas based on spherical wave scattering. , 2016, , .		2
63	Non-local metasurfaces for perfect control of reflection and transmission. , 2017, , .		2
64	Design of Single-Layer Dense Metasurfaces on Irregular Grids Using Discrete Dipole Approximation. IEEE Transactions on Antennas and Propagation, 2022, 70, 10592-10603.	5.1	2
65	Low-loss high-Q optical bandstop filter based on chalcogenide glass grating structures. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1
66	Design of received and scattered powers for dipole arrays using load optimization. , 2010, , .		1
67	Bandwidth limitations of phased array elements. , 2013, , .		1
68	Radiation quality factor analysis of planar phased arrays. , 2013, , .		1
69	Near-field MIMO communication utilizing both electric and magnetic field components. , 2014, , .		1
70	Radiation Q of planar dipole phased arrays on a grounded substrate. , 2014, , .		1
71	Spectral-domain radiation Q analysis of a planar dipole over a conducting ground plane. , 2015, , .		1
72	Design and experimental validation of a virtual line source using metamaterials. , 2015, , .		1

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73	Higher-order bandwidth bounds for conductor-backed planar arrays. , 2016, , .		1
74	Comparison of radiation pattern modeling methods for GPS controlled reception pattern array. , 2017, , .		1
75	Lossless Tensor Surface Invisibility Cloaks Utilizing Surface Waves. , 2018, , .		1
76	Hardware Realization and Performance Measurement of an Anti-Jam GPS Antenna Array. , 2019, , .		1
77	Transformation electromagnetic design of beam polarization rotators. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0
78	Flat focusing lens designs based on transformation electromagnetics. , 2009, , .		0
79	Low-profile embedded array design for endfire scanning using transformation electromagnetics. , 2010, , .		0
80	Sum rule for conductor-backed thin-wire dipole antennas. , 2012, , .		0
81	Dichroic FSS design for angularly stable response using homogenization. , 2012, , .		0
82	Guest Editorial: IEEE Antennas and Wireless Propagation Letters Special Cluster on Transformation Electromagnetics. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1765-1766.	4.0	0
83	Received voltage and power for an arbitrary element of infinite planar arrays. , 2015, , .		0
84	A broadband perpendicular E-plane waveguide-to-suspended stripline transition. Microwave and Optical Technology Letters, 2016, 58, 1831-1834.	1.4	0
85	On the bandwidth of small dipoles and the electric polarizability. , 2016, , .		0
86	Fano matching bandwidth bounds for small loop antennas based on spherical wave scattering. , 2017, , .		0
87	Perfect Reflectarrays Elements Based on Non-local Metasurfaces. , 2017, , .		0
88	Effects of Electromagnetic Modeling Methods on Coverage Prediction of Anti-Jam GPS Antenna. , 2018, , .		0
89	Field Optimization for Scalar Metasurface Designs for Anomalous Plane-Wave Reflection. , 2018, , .		0
90	A Two-Dimensional LC-Network Metamaterial on an Irregular Grid. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
91	A Two-Dimensional LC-Network Metamaterial on an Irregular Grid. , 2019, , .		0
92	Functional Electromagnetic Surface Design via Complete Interface Field Synthesis. , 2021, , .		0
93	Transformation Electromagnetics for Cloaking, Lensing, and Radiation Applications. , 2014, , 33-81.		0
94	Planar Modulated Reactance Surfaces for Endfire Antenna Applications. Journal of Physics: Conference Series, 2021, 2015, 012081.	0.4	0