Nader Engheta

List of Publications by Year
in descending order

481 papers	34,499 citations	3933 88 h-index	4116 175 g-index
488 all docs	488 docs citations	488 times ranked	17622 citing authors

#	Article	IF	Citations
1	Transformation Optics Using Graphene. Science, 2011, 332, 1291-1294.	12.6	2,434
2	Achieving transparency with plasmonic and metamaterial coatings. Physical Review E, 2005, 72, 016623.	2.1	1,346
3	Tunneling of Electromagnetic Energy through Subwavelength Channels and Bends usingÎµ-Near-Zero Materials. Physical Review Letters, 2006, 97, 157403.	7.8	1,143
4	Circuits with Light at Nanoscales: Optical Nanocircuits Inspired by Metamaterials. Science, 2007, 317, 1698-1702.	12.6	1,094
5	Epsilon-near-zero metamaterials and electromagnetic sources: Tailoring the radiation phase pattern. Physical Review B, 2007, 75, .	3.2	876
6	Performing Mathematical Operations with Metamaterials. Science, 2014, 343, 160-163.	12.6	757
7	Improved Size-Tunable Synthesis of Monodisperse Gold Nanorods through the Use of Aromatic Additives. ACS Nano, 2012, 6, 2804-2817.	14.6	749
8	Near-zero refractive index photonics. Nature Photonics, 2017, 11, 149-158.	31.4	635
9	Experimental Verification of Epsilon-Near-Zero Metamaterial Coupling and Energy Squeezing Using a Microwave Waveguide. Physical Review Letters, 2008, 100, 033903.	7.8	630
10	Far-field subdiffraction optical microscopy using metamaterial crystals: Theory and simulations. Physical Review B, 2006, 74, .	3.2	626
11	Circuit Elements at Optical Frequencies: Nanoinductors, Nanocapacitors, and Nanoresistors. Physical Review Letters, 2005, 95, 095504.	7.8	565
12	Pairing an epsilon-negative slab with a mu-negative slab: Resonance, tunneling and transparency. IEEE Transactions on Antennas and Propagation, 2003, 51, 2558-2571.	5.1	537
13	An idea for thin subwavelength cavity resonators using metamaterials with negative permittivity and permeability. IEEE Antennas and Wireless Propagation Letters, 2002, 1, 10-13.	4.0	535
14	Experimental realization of an epsilon-near-zero metamaterial at visible wavelengths. Nature Photonics, 2013, 7, 907-912.	31.4	414
15	Multifrequency Optical Invisibility Cloak with Layered Plasmonic Shells. Physical Review Letters, 2008, 100, 113901.	7.8	381
16	Tuning the scattering response of optical nanoantennas with nanocircuit loads. Nature Photonics, 2008, 2, 307-310.	31.4	378
17	A positive future for double-negative metamaterials. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1535-1556.	4.6	366
18	Inverse-designed metastructures that solve equations. Science, 2019, 363, 1333-1338.	12.6	355

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19	Electromagnetic wave propagation through a dielectricâ€“chiral interface and through a chiral slab. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1988, 5, 1450.	1.5	350
20	Digital metamaterials. Nature Materials, 2014, 13, 1115-1121.	27.5	345
21	Cloaking a Sensor. Physical Review Letters, 2009, 102, 233901.	7.8	325
22	Experimental Verification of Plasmonic Cloaking at Microwave Frequencies with Metamaterials. Physical Review Letters, 2009, 103, 153901.	7.8	321
23	On fractional calculus and fractional multipoles in electromagnetism. IEEE Transactions on Antennas and Propagation, 1996, 44, 554-566.	5.1	312
24	Input Impedance, Nanocircuit Loading, and Radiation Tuning of Optical Nanoantennas. Physical Review Letters, 2008, 101, 043901.	7.8	310
25	Plasmonic materials in transparency and cloaking problems: mechanism, robustness, and physical insights. Optics Express, 2007, 15, 3318.	3.4	309
26	Negative effective permeability and left-handed materials at optical frequencies. Optics Express, 2006, 14, 1557.	3.4	301
27	Pursuing Near-Zero Response. Science, 2013, 340, 286-287.	12.6	291
28	Theory of supercoupling, squeezing wave energy, and field confinement in narrow channels and tight bends using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Îµ</mml:mi></mml:math>near-zero metamaterials. Physical Review B, 2007, 76, .	3.2	284
29	Metal-Enhanced Upconversion Luminescence Tunable through Metal Nanoparticleâ€“Nanophosphor Separation. ACS Nano, 2012, 6, 8758-8766.	14.6	262
30	A reciprocal phase shifter using novel pseudochiral or Ï‰ medium. Microwave and Optical Technology Letters, 1992, 5, 184-188.	1.4	254
31	Guided Modes in a Waveguide Filled With a Pair of Single-Negative (SNG), Double-Negative (DNG), and/or Double-Positive (DPS) Layers. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 199-210.	4.6	234
32	The theory of chirowaveguides. IEEE Transactions on Antennas and Propagation, 1990, 38, 90-98.	5.1	224
33	An invisible metalâ€“semiconductor photodetector. Nature Photonics, 2012, 6, 380-385.	31.4	223
34	Wireless at the Nanoscale: Optical Interconnects using Matched Nanoantennas. Physical Review Letters, 2010, 104, 213902.	7.8	217
35	Plasmonic and metamaterial cloaking: physical mechanisms and potentials. Journal of Optics, 2008, 10, 093002.	1.5	215
36	Design of matched zero-index metamaterials using nonmagnetic inclusions in epsilon-near-zero media. Physical Review B, 2007, 75, .	3.2	209

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37	Experimental Verification of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi><mml:mo>=</mml:mo><mml:mn>0</mml:mn></mml:math>Structures for Visible Light. Physical Review Letters, 2013, 110, 013902.	7.8	208
38	Parallel-plate metamaterials for cloaking structures. Physical Review E, 2007, 75, 036603.	2.1	207
39	Boosting optical nonlinearities in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Îµ</mml:mi></mml:math>-near-zero plasmonic channels. Physical Review B, 2012, 85, .	3.2	200
40	Theory of linear chains of metamaterial/plasmonic particles as subdiffraction optical nanotransmission lines. Physical Review B, 2006, 74, .	3.2	199
41	Subwavelength, Compact, Resonant Patch Antennas Loaded With Metamaterials. IEEE Transactions on Antennas and Propagation, 2007, 55, 13-25.	5.1	199
42	Plasmonic Enhancement of Nanophosphor Upconversion Luminescence in Au Nanohole Arrays. ACS Nano, 2013, 7, 7186-7192.	14.6	199
43	Photonic doping of epsilon-near-zero media. Science, 2017, 355, 1058-1062.	12.6	198
44	Thin absorbing screens using metamaterial surfaces. , 0, , .		196
45	A long-range polarization-controlled optical tractor beam. Nature Photonics, 2014, 8, 846-850.	31.4	190
46	Shaping light beams in the nanometer scale: A Yagi-Uda nanoantenna in the optical domain. Physical Review B, 2007, 76, .	3.2	189
47	Optical nanotransmission lines: synthesis of planar left-handed metamaterials in the infrared and visible regimes. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 571.	2.1	188
48	Polarizabilities and effective parameters for collections of spherical nanoparticles formed by pairs of concentric double-negative, single-negative, andâˆ•or double-positive metamaterial layers. Journal of Applied Physics, 2005, 97, 094310.	2.5	187
49	Polarization-difference imaging: a biologically inspired technique for observation through scattering media. Optics Letters, 1995, 20, 608.	3.3	186
50	Enhanced third-harmonic generation in Si-compatible epsilon-near-zero indium tin oxide nanolayers. Optics Letters, 2015, 40, 1500.	3.3	182
51	Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. ACS Photonics, 2014, 1, 530-537.	6.6	179
52	Modes in chirowaveguides. Optics Letters, 1989, 14, 593.	3.3	176
53	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold-script">P</mml:mi><mml:mi mathvariant="bold-script">T</mml:mi></mml:math>Metamaterials via Complex-Coordinate Transformation Optics. Physical Review Letters, 2013, 110, 173901.	7.8	176
54	Radiation patterns of interfacial dipole antennas. Radio Science, 1982, 17, 1557-1566.	1.6	172

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55	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. Optica, 2016, 3, 339.	9.3	162
56	Waveâ€“matter interactions in epsilon-and-mu-near-zero structures. Nature Communications, 2014, 5, 5638.	12.8	159
57	Lateral forces on circularly polarizable particles near a surface. Nature Communications, 2015, 6, 8799.	12.8	159
58	High impedance metamaterial surfaces using Hilbert-curve inclusions. IEEE Microwave and Wireless Components Letters, 2004, 14, 130-132.	3.2	153
59	Comparative Study of Second-Harmonic Generation from Epsilon-Near-Zero Indium Tin Oxide and Titanium Nitride Nanolayers Excited in the Near-Infrared Spectral Range. ACS Photonics, 2015, 2, 1584-1591.	6.6	151
60	Cloaking and transparency for collections of particles with metamaterial and plasmonic covers. Optics Express, 2007, 15, 7578.	3.4	150
61	Electromagnetic chirality and its applications. IEEE Antennas and Propagation Society Newsletter, 1988, 30, 6-12.	0.2	147
62	All-passive nonreciprocal metastructure. Nature Communications, 2015, 6, 8359.	12.8	146
63	Electromagnetic waves in Faraday chiral media. IEEE Transactions on Antennas and Propagation, 1992, 40, 367-374.	5.1	137
64	Dielectric sensing in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïµ</mml:mi></mml:math>-near-zero narrow waveguide channels. Physical Review B, 2008, 78, .	3.2	137
65	Fractional curl operator in electromagnetics. Microwave and Optical Technology Letters, 1998, 17, 86-91.	1.4	134
66	Experimental realization of optical lumped nanocircuits at infrared wavelengths. Nature Materials, 2012, 11, 208-212.	27.5	130
67	Transmission-line analysis of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Îµ</mml:mi></mml:math>-near-zeroâ€“filled narrow channels. Physical Review E, 2008, 78, 016604.	2.1	127
68	Plasmon-Enhanced Upconversion Luminescence in Single Nanophosphorâ€“Nanorod Heterodimers Formed through Template-Assisted Self-Assembly. ACS Nano, 2014, 8, 9482-9491.	14.6	127
69	Antireflection temporal coatings. Optica, 2020, 7, 323.	9.3	126
70	Kinetics of Recovery of the Dark-adapted Salamander Rod Photoresponse. Journal of General Physiology, 1998, 111, 7-37.	1.9	125
71	Metamaterial special issue introduction. IEEE Transactions on Antennas and Propagation, 2003, 51, 2546-2549.	5.1	119
72	Dynamical theory of artificial optical magnetism produced by rings of plasmonic nanoparticles. Physical Review B, 2008, 78, .	3.2	119

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73	Reflectionless sharp bends and corners in waveguides using epsilon-near-zero effects. Journal of Applied Physics, 2009, 105, .	2.5	119
74	Tilted Pillars on Wrinkled Elastomers as a Reversibly Tunable Optical Window. Advanced Materials, 2014, 26, 4127-4133.	21.0	118
75	Roadmap on optical metamaterials. Journal of Optics (United Kingdom), 2016, 18, 093005.	2.2	118
76	The quest for magnetic plasmons at optical frequencies. Optics Express, 2009, 17, 5723.	3.4	117
77	Solution-Processed Phase-Change VO₂ Metamaterials from Colloidal Vanadium Oxide (VO_{<i>x</i>}) Nanocrystals. ACS Nano, 2014, 8, 797-806.	14.6	112
78	Temporal aiming. Light: Science and Applications, 2020, 9, 129.	16.6	108
79	Metamaterial Covers Over a Small Aperture. IEEE Transactions on Antennas and Propagation, 2006, 54, 1632-1643.	5.1	107
80	All Optical Metamaterial Circuit Board at the Nanoscale. Physical Review Letters, 2009, 103, 143902.	7.8	103
81	Canonical sources and duality in chiral media (antenna arrays). IEEE Transactions on Antennas and Propagation, 1988, 36, 1007-1013.	5.1	101
82	Three-dimensional nanotransmission lines at optical frequencies: A recipe for broadband negative-refraction optical metamaterials. Physical Review B, 2007, 75, .	3.2	99
83	Traditional and emerging materials for optical metasurfaces. Nanophotonics, 2017, 6, 452-471.	6.0	97
84	Theory of Wave Propagation in Magnetized Near-Zero-Epsilon Metamaterials: Evidence for One-Way Photonic States and Magnetically Switched Transparency and Opacity. Physical Review Letters, 2013, 111, 257401.	7.8	96
85	Optical isolation with epsilon-near-zero metamaterials. Optics Express, 2013, 21, 3279.	3.4	96
86	Imaging and steering an optical wireless nanoantenna link. Nature Communications, 2014, 5, 4354.	12.8	96
87	Hertzian plasmonic nanodimer as an efficient optical nanoantenna. Physical Review B, 2008, 78, .	3.2	94
88	Homogenization of plasmonic metasurfaces modeled as transmission-line loads. Metamaterials, 2011, 5, 90-96.	2.2	94
89	Fabrication of a dual-tier thin film micropolarization array. Optics Express, 2007, 15, 4994.	3.4	93
90	Antenna radiation in the presence of a chiral sphere. Journal of Applied Physics, 1990, 67, 639-647.	2.5	90

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91	Nonradiating and radiating modes excited by quantum emitters in open epsilon-near-zero cavities. Science Advances, 2016, 2, e1600987.	10.3	90
92	Space-filling curve RFID tags. , 0, , .		89
93	Chemically Tailored Dielectric-to-Metal Transition for the Design of Metamaterials from Nanoimprinted Colloidal Nanocrystals. Nano Letters, 2013, 13, 350-357.	9.1	87
94	Single-Negative, Double-Negative, and Low-index Metamaterials and their Electromagnetic Applications. IEEE Antennas and Propagation Magazine, 2007, 49, 23-36.	1.4	86
95	One-way phonon isolation in acoustic waveguides. Applied Physics Letters, 2014, 104, .	3.3	86
96	Tunneling of obliquely incident waves through<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric epsilon-near-zero bilayers. Physical Review B, 2014, 89, .	3.2	83
97	Raspberry-like Metamolecules Exhibiting Strong Magnetic Resonances. ACS Nano, 2015, 9, 1263-1270.	14.6	83
98	Metamaterials with high degrees of freedom: space, time, and more. Nanophotonics, 2020, 10, 639-642.	6.0	82
99	Chirosorbâ„¢ as an invisible medium. Electronics Letters, 1989, 25, 173.	1.0	81
100	Light squeezing through arbitrarily shaped plasmonic channels and sharp bends. Physical Review B, 2008, 78, .	3.2	81
101	The rise of near-zero-index technologies. Science, 2017, 358, 1540-1541.	12.6	81
102	Effective medium concept in temporal metamaterials. Nanophotonics, 2020, 9, 379-391.	6.0	81
103	Geometry-invariant resonant cavities. Nature Communications, 2016, 7, 10989.	12.8	79
104	Boosting Molecular Fluorescence with a Plasmonic Nanolauncher. Physical Review Letters, 2009, 103, 043902.	7.8	78
105	Plasmon Resonances in Self-Assembled Two-Dimensional Au Nanocrystal Metamolecules. ACS Nano, 2017, 11, 2917-2927.	14.6	78
106	Separation and contrast enhancement of overlapping cast shadow components using polarization. Optics Express, 2006, 14, 7099.	3.4	77
107	Internal homogenization: Effective permittivity of a coated sphere. Optics Express, 2012, 20, 22976.	3.4	77
108	Cloaked Near-Field Scanning Optical Microscope Tip for Noninvasive Near-Field Imaging. Physical Review Letters, 2010, 105, 263906.	7.8	76

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109	Control of light by curved space in nanophotonic structures. Nature Photonics, 2017, 11, 664-670.	31.4	75
110	High-strength magnetically switchable plasmonic nanorods assembled from a binary nanocrystal mixture. Nature Nanotechnology, 2017, 12, 228-232.	31.5	75
111	Plasmonic Optical and Chiroptical Response of Self-Assembled Au Nanorod Equilateral Trimers. ACS Nano, 2019, 13, 1617-1624.	14.6	75
112	Dual-tier thin film polymer polarization imaging sensor. Optics Express, 2010, 18, 19292.	3.4	73
113	Theory, Modeling and Features of Optical Nanoantennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 1508-1517.	5.1	73
114	Extremely small wavevector regime in a one-dimensional photonic crystal heterostructure for angular transmission filtering. Optics Letters, 2016, 41, 3829.	3.3	69
115	Fourier optics on graphene. Physical Review B, 2012, 85, .	3.2	67
116	Periodic chiral structures. IEEE Transactions on Antennas and Propagation, 1989, 37, 1447-1452.	5.1	66
117	Mode orthogonality in chirowaveguides. IEEE Transactions on Microwave Theory and Techniques, 1990, 38, 1631-1634.	4.6	66
118	Nonlinear control of tunneling through an epsilon-near-zero channel. Physical Review B, 2009, 79, .	3.2	65
119	Near-Infrared Metatronic Nanocircuits by Design. Physical Review Letters, 2013, 111, 073904.	7.8	64
120	Reducing the Complexity: Enantioselective Chiral Near-Fields by Diagonal Slit and Mirror Configuration. ACS Photonics, 2016, 3, 1076-1084.	6.6	64
121	Bandwidth, cross-polarization, and feed-point characteristics of matched Hilbert antennas. IEEE Antennas and Wireless Propagation Letters, 2003, 2, 2-5.	4.0	63
122	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetry-induced wave confinement and guiding in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Îµ</mml:mi></mml:math>-near-zero metamaterials. Physical Review B, 2015, 91, .	3.2	63
123	Experimental Realization of an Epsilon-Near-Zero Graded-Index Metalens at Terahertz Frequencies. Physical Review Applied, 2017, 8, .	3.8	63
124	Chiroshield: a Salisbury/Dallenbach shield alternative. Electronics Letters, 1990, 26, 1332.	1.0	62
125	Theory and Simulations of a Conformal Omni- Directional Subwavelength Metamaterial Leaky-Wave Antenna. IEEE Transactions on Antennas and Propagation, 2007, 55, 1698-1708.	5.1	61
126	Transporting an Image through a Subwavelength Hole. Physical Review Letters, 2009, 102, 103902.	7.8	61

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127	Waveguide metatronics: Lumped circuitry based on structural dispersion. Science Advances, 2016, 2, e1501790.	10.3	61
128	Polaritonic Hybrid-Epsilon-near-Zero Modes: Beating the Plasmonic Confinement vs Propagation-Length Trade-Off with Doped Cadmium Oxide Bilayers. Nano Letters, 2019, 19, 948-957.	9.1	61
129	Infrared and optical invisibility cloak with plasmonic implants based on scattering cancellation. Physical Review B, 2008, 78, .	3.2	60
130	Electronically controlled optical beam-steering by an active phased array of metallic nanoantennas. Optics Express, 2013, 21, 5198.	3.4	59
131	Design of nanofilters for optical nanocircuits. Physical Review B, 2008, 77, .	3.2	58
132	Terahertz epsilon-near-zero graded-index lens. Optics Express, 2013, 21, 9156.	3.4	58
133	Plasmonics without negative dielectrics. Physical Review B, 2016, 93, .	3.2	58
134	Coupledâ€mode theory for chirowaveguides. Journal of Applied Physics, 1990, 67, 2742-2745.	2.5	56
135	Electric Levitation Using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïµ</mml:mi></mml:math>-Near-Zero Metamaterials. Physical Review Letters, 2014, 112, 033902.	7.8	55
136	Zero-index structures as an alternative platform for quantum optics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 822-827.	7.1	55
137	On the performance of an ENZ-based sensor using transmission line theory and effective medium approach. New Journal of Physics, 2019, 21, 043056.	2.9	55
138	Enhanced Directivity From Subwavelength Infrared/Optical Nano-Antennas Loaded With Plasmonic Materials or Metamaterials. IEEE Transactions on Antennas and Propagation, 2007, 55, 3027-3039.	5.1	54
139	Effects of shape and loading of optical nanoantennas on their sensitivity and radiation properties. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1266.	2.1	54
140	Reduction of surface waves in chirostrip antennas. Electronics Letters, 1991, 27, 5-7.	1.0	53
141	Omnidirectional Metamaterial Antennas Based on $varepsilon$-Near-Zero Channel Matching. IEEE Transactions on Antennas and Propagation, 2013, 61, 33-44.	5.1	53
142	Cloak/anti-cloak interactions. Optics Express, 2009, 17, 3101.	3.4	52
143	Experimental Verification of Displacement-Current Conduits in Metamaterials-Inspired Optical Circuitry. Physical Review Letters, 2012, 108, 193902.	7.8	51
144	Nonlocal Transformation Optics. Physical Review Letters, 2012, 108, 063902.	7.8	50

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145	Electrically controlled one-way photon flow in plasmonic nanostructures. Nature Communications, 2014, 5, 5250.	12.8	50
146	Coaxial-to-Waveguide Matching With $varepsilon$-Near-Zero Ultranarrow Channels and Bends. IEEE Transactions on Antennas and Propagation, 2010, 58, 328-339.	5.1	49
147	Nonreciprocal Rotating Power Flow within Plasmonic Nanostructures. Physical Review Letters, 2013, 111, 047401.	7.8	49
148	Electromagnetic wave propagation in the wire medium: a complex medium with long thin inclusions. Wave Motion, 2001, 34, 301-317.	2.0	48
149	Parallel, series, and intermediate interconnections of optical nanocircuit elements 2 Nanocircuit and physical interpretation. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 3014.	2.1	48
150	Sub-wavelength resonators: on the use of metafilms to overcome the Î»/2 size limit. IET Microwaves, Antennas and Propagation, 2008, 2, 120-129.	1.4	47
151	Taming light at the nanoscale. Physics World, 2010, 23, 31-34.	0.0	47
152	Reconfigurable epsilon-near-zero metasurfaces via photonic doping. Nanophotonics, 2018, 7, 1117-1127.	6.0	47
153	Substrate-integrated photonic doping for near-zero-index devices. Nature Communications, 2019, 10, 4132.	12.8	47
154	Surface waves in chiral layers. Optics Letters, 1991, 16, 723.	3.3	46
155	Nanoinsulators and nanoconnectors for optical nanocircuits. Journal of Applied Physics, 2008, 103, 064305.	2.5	46
156	Optical spectrometer at the nanoscale using optical Yagi-Uda nanoantennas. Physical Review B, 2009, 79, .	3.2	46
157	Transformation electronics: Tailoring the effective mass of electrons. Physical Review B, 2012, 86, .	3.2	46
158	Experimental Demonstration of a Millimeter-Wave Metallic ENZ Lens Based on the Energy Squeezing Principle. IEEE Transactions on Antennas and Propagation, 2015, 63, 231-239.	5.1	45
159	Adaptive Polarization Contrast Techniques for Through-Wall Microwave Imaging Applications. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1362-1374.	6.3	44
160	Nanoscale plasmonic circulator. New Journal of Physics, 2013, 15, 083054.	2.9	44
161	Mechanical 144â€‰GHz beam steering with all-metallic epsilon-near-zero lens antenna. Applied Physics Letters, 2014, 105, .	3.3	44
162	Lensing system and Fourier transformation using epsilon-near-zero metamaterials. Physical Review B, 2012, 86, .	3.2	43

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163	Achieving asymmetry and trapping in diffusion with spatiotemporal metamaterials. Nature Communications, 2020, 11, 3733.	12.8	43
164	<i>Âµ</i>-near-zero supercoupling. Physical Review B, 2015, 91, .	3.2	42
165	Functional analysis of the polarization response in linear time-varying media: A generalization of the Kramers-Kronig relations. Physical Review B, 2021, 103, .	3.2	42
166	Antenna-Guided Light. Science, 2011, 334, 317-318.	12.6	41
167	Quadrupole-Enhanced Raman Scattering. ACS Nano, 2014, 8, 9025-9034.	14.6	41
168	Modeling vanadium dioxide phase transition due to continuous-wave optical signals. Optics Express, 2015, 23, 445.	3.4	41
169	Radiation from a traveling-wave current sheet at the interface between a conventional material and a metamaterial with negative permittivity and permeability. Microwave and Optical Technology Letters, 2002, 35, 460-463.	1.4	40
170	Air-Stable, Nanostructured Electronic and Plasmonic Materials from Solution-Processable, Silver Nanocrystal Building Blocks. ACS Nano, 2014, 8, 2746-2754.	14.6	40
171	Temporal equivalent of the Brewster angle. Physical Review B, 2021, 104, .	3.2	40
172	Transition radiation caused by a chiral plate. IEEE Transactions on Antennas and Propagation, 1982, 30, 1213-1216.	0.8	39
173	Chirostrip Antenna: Line Source Problem. Journal of Electromagnetic Waves and Applications, 1992, 6, 771-793.	1.6	39
174	Cloaking mechanism with antiphase plasmonic satellites. Physical Review B, 2008, 78, .	3.2	39
175	Cloaking a receiving antenna or a sensor with plasmonic metamaterials. Metamaterials, 2010, 4, 153-159.	2.2	39
176	Extreme and Quantized Magneto-optics with Graphene Meta-atoms and Metasurfaces. ACS Photonics, 2014, 1, 1068-1073.	6.6	39
177	Hotspots from nonreciprocal surface waves. Optics Letters, 2014, 39, 1760.	3.3	38
178	Guided propagation along quadrupolar chains of plasmonic nanoparticles. Physical Review B, 2009, 79, .	3.2	37
179	Reflection and transmission of guided electromagnetic waves at an air-chiral interface and at a chiral slab in a parallel-plate waveguide. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1895-1906.	4.6	36
180	Manipulating thermal emission with spatially static fluctuating fields in arbitrarily shaped epsilon-near-zero bodies. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2878-2883.	7.1	36

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181	Nanoimprinted Chiral Plasmonic Substrates with Three-Dimensional Nanostructures. Nano Letters, 2018, 18, 7389-7394.	9.1	36
182	Use of Fractional Integration to Propose Some ``Fractional'' Solutions for the Scalar Helmholtz Equation. Progress in Electromagnetics Research, 1996, 12, 107-132.	4.4	36
183	Effect of chirality on the Doppler shift and aberration of light waves. Journal of Applied Physics, 1989, 66, 2274-2277.	2.5	35
184	Coupling of optical lumped nanocircuit elements and effects of substrates. Optics Express, 2007, 15, 13865.	3.4	35
185	Exploiting space-time duality in the synthesis of impedance transformers via temporal metamaterials. Nanophotonics, 2021, 10, 3687-3699.	6.0	35
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