

# Nader Engheta

## List of Publications by Citations

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391  
papers

26,419  
citations

80  
h-index

154  
g-index

488  
ext. papers

31,164  
ext. citations

6.5  
avg, IF

7.82  
L-index

#	Paper	IF	Citations
391	Transformation optics using graphene. <i>Science</i> , <b>2011</b> , 332, 1291-4	33.3	2015
390	Achieving transparency with plasmonic and metamaterial coatings. <i>Physical Review E</i> , <b>2005</b> , 72, 016623	2.4	1063
389	Circuits with light at nanoscales: optical nanocircuits inspired by metamaterials. <i>Science</i> , <b>2007</b> , 317, 1698-3	37.02	921
388	Tunneling of electromagnetic energy through subwavelength channels and bends using epsilon-near-zero materials. <i>Physical Review Letters</i> , <b>2006</b> , 97, 157403	7.4	888
387	Epsilon-near-zero metamaterials and electromagnetic sources: Tailoring the radiation phase pattern. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	688
386	Improved size-tunable synthesis of monodisperse gold nanorods through the use of aromatic additives. <i>ACS Nano</i> , <b>2012</b> , 6, 2804-17	16.7	641
385	Experimental verification of epsilon-near-zero metamaterial coupling and energy squeezing using a microwave waveguide. <i>Physical Review Letters</i> , <b>2008</b> , 100, 033903	7.4	513
384	Far-field subdiffraction optical microscopy using metamaterial crystals: Theory and simulations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	511
383	Performing mathematical operations with metamaterials. <i>Science</i> , <b>2014</b> , 343, 160-3	33.3	504
382	Pairing an epsilon-negative slab with a mu-negative slab: resonance, tunneling and transparency. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2003</b> , 51, 2558-2571	4.9	444
381	Circuit elements at optical frequencies: nanoinductors, nanocapacitors, and nanoresistors. <i>Physical Review Letters</i> , <b>2005</b> , 95, 095504	7.4	438
380	Near-zero refractive index photonics. <i>Nature Photonics</i> , <b>2017</b> , 11, 149-158	33.9	430
379	An idea for thin subwavelength cavity resonators using metamaterials with negative permittivity and permeability. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2002</b> , 1, 10-13	3.8	404
378	Multifrequency optical invisibility cloak with layered plasmonic shells. <i>Physical Review Letters</i> , <b>2008</b> , 100, 113901	7.4	341
377	Experimental realization of an epsilon-near-zero metamaterial at visible wavelengths. <i>Nature Photonics</i> , <b>2013</b> , 7, 907-912	33.9	315
376	Tuning the scattering response of optical nanoantennas with nanocircuit loads. <i>Nature Photonics</i> , <b>2008</b> , 2, 307-310	33.9	307
375	Cloaking a sensor. <i>Physical Review Letters</i> , <b>2009</b> , 102, 233901	7.4	269

374	Electromagnetic wave propagation through a dielectric-chiral interface and through a chiral slab. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1988</b> , 5, 1450	1.8	268
373	A positive future for double-negative metamaterials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 1535-1556	4.1	260
372	Experimental verification of plasmonic cloaking at microwave frequencies with metamaterials. <i>Physical Review Letters</i> , <b>2009</b> , 103, 153901	7.4	258
371	Input impedance, nanocircuit loading, and radiation tuning of optical nanoantennas. <i>Physical Review Letters</i> , <b>2008</b> , 101, 043901	7.4	256
370	Digital metamaterials. <i>Nature Materials</i> , <b>2014</b> , 13, 1115-21	27	241
369	Metal-enhanced upconversion luminescence tunable through metal nanoparticle-nanophosphor separation. <i>ACS Nano</i> , <b>2012</b> , 6, 8758-66	16.7	240
368	Plasmonic materials in transparency and cloaking problems: mechanism, robustness, and physical insights. <i>Optics Express</i> , <b>2007</b> , 15, 3318-32	3.3	236
367	Negative effective permeability and left-handed materials at optical frequencies. <i>Optics Express</i> , <b>2006</b> , 14, 1557-67	3.3	236
366	On fractional calculus and fractional multipoles in electromagnetism. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1996</b> , 44, 554-566	4.9	233
365	Materials science. Pursuing near-zero response. <i>Science</i> , <b>2013</b> , 340, 286-7	33.3	220
364	Theory of supercoupling, squeezing wave energy, and field confinement in narrow channels and tight bends using $\mu$ near-zero metamaterials. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	220
363	A reciprocal phase shifter using novel pseudo-chiral or $\epsilon$ medium. <i>Microwave and Optical Technology Letters</i> , <b>1992</b> , 5, 184-188	1.2	202
362	Inverse-designed metastructures that solve equations. <i>Science</i> , <b>2019</b> , 363, 1333-1338	33.3	198
361	An invisible metal-semiconductor photodetector. <i>Nature Photonics</i> , <b>2012</b> , 6, 380-385	33.9	180
360	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 199-210	4.1	180
359	Plasmonic enhancement of nanophosphor upconversion luminescence in Au nanohole arrays. <i>ACS Nano</i> , <b>2013</b> , 7, 7186-92	16.7	174
358	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1990</b> , 38, 90-98	4.9	170
357	Parallel-plate metamaterials for cloaking structures. <i>Physical Review E</i> , <b>2007</b> , 75, 036603	2.4	167

356	Boosting optical nonlinearities in $\bar{\mu}$ -near-zero plasmonic channels. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	165
355	Experimental verification of $n = 0$ structures for visible light. <i>Physical Review Letters</i> , <b>2013</b> , 110, 013902	7.4	165
354	Plasmonic and metamaterial cloaking: physical mechanisms and potentials. <i>Journal of Optics</i> , <b>2008</b> , 10, 093002		165
353	Wireless at the nanoscale: optical interconnects using matched nanoantennas. <i>Physical Review Letters</i> , <b>2010</b> , 104, 213902	7.4	162
352	Design of matched zero-index metamaterials using nonmagnetic inclusions in epsilon-near-zero media. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	160
351	Theory of linear chains of metamaterial/plasmonic particles as subdiffraction optical nanotransmission lines. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	160
350	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 13-25	4.9	160
349	Polarizabilities and effective parameters for collections of spherical nanoparticles formed by pairs of concentric double-negative, single-negative, and $\bar{\epsilon}$ double-positive metamaterial layers. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 094310	2.5	159
348	Optical nanotransmission lines: synthesis of planar left-handed metamaterials in the infrared and visible regimes. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2006</b> , 23, 571	1.7	159
347	Shaping light beams in the nanometer scale: A Yagi-Uda nanoantenna in the optical domain. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	157
346	Modes in chirowaveguides. <i>Optics Letters</i> , <b>1989</b> , 14, 593-5	3	146
345	Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. <i>ACS Photonics</i> , <b>2014</b> , 1, 530-537	5.37	145
344	A long-range polarization-controlled optical tractor beam. <i>Nature Photonics</i> , <b>2014</b> , 8, 846-850	33.9	142
343	PT metamaterials via complex-coordinate transformation optics. <i>Physical Review Letters</i> , <b>2013</b> , 110, 173901	7.01	139
342	Radiation patterns of interfacial dipole antennas. <i>Radio Science</i> , <b>1982</b> , 17, 1557-1566	1.4	135
341	Enhanced third-harmonic generation in Si-compatible epsilon-near-zero indium tin oxide nanolayers. <i>Optics Letters</i> , <b>2015</b> , 40, 1500-3	3	134
340	Thin absorbing screens using metamaterial surfaces		131
339	Cloaking and transparency for collections of particles with metamaterial and plasmonic covers. <i>Optics Express</i> , <b>2007</b> , 15, 7578-90	3.3	127

- 338 Photonic doping of epsilon-near-zero media. *Science*, **2017**, 355, 1058-1062 33.3 126
- 337 Polarization-difference imaging: a biologically inspired technique for observation through scattering media. *Optics Letters*, **1995**, 20, 608-10 3 126
- 336 Wave-matter interactions in epsilon-and-mu-near-zero structures. *Nature Communications*, **2014**, 5, 5638-5644 17.4 122
- 335 Kinetics of recovery of the dark-adapted salamander rod photoresponse. *Journal of General Physiology*, **1998**, 111, 7-37 3.4 117
- 334 Lateral forces on circularly polarizable particles near a surface. *Nature Communications*, **2015**, 6, 8799 17.4 114
- 333 High impedance metamaterial surfaces using Hilbert-curve inclusions. *IEEE Microwave and Wireless Components Letters*, **2004**, 14, 130-132 2.6 114
- 332 Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. *Optica*, **2016**, 3, 339-344 8.6 112
- 331 Electromagnetic chirality and its applications. *IEEE Antennas and Propagation Society Newsletter*, **1988**, 30, 6-12 110
- 330 Fractional curl operator in electromagnetics. *Microwave and Optical Technology Letters*, **1998**, 17, 86-91 1.2 107
- 329 The quest for magnetic plasmons at optical frequencies. *Optics Express*, **2009**, 17, 5723-30 3.3 106
- 328 Transmission-line analysis of epsilon -near-zero-filled narrow channels. *Physical Review E*, **2008**, 78, 016604 10.4 106
- 327 Dielectric sensing in epsilon-near-zero narrow waveguide channels. *Physical Review B*, **2008**, 78, 041101 3.3 106
- 326 . *IEEE Transactions on Antennas and Propagation*, **1992**, 40, 367-374 4.9 106
- 325 Plasmon-enhanced upconversion luminescence in single nanophosphor-nanorod heterodimers formed through template-assisted self-assembly. *ACS Nano*, **2014**, 8, 9482-91 16.7 105
- 324 Tilted pillars on wrinkled elastomers as a reversibly tunable optical window. *Advanced Materials*, **2014**, 26, 4127-33 24 105
- 323 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 6.3 103
- 322 Experimental realization of optical lumped nanocircuits at infrared wavelengths. *Nature Materials*, **2012**, 11, 208-12 27 102
- 321 All-passive nonreciprocal metastructure. *Nature Communications*, **2015**, 6, 8359 17.4 101

320	Reflectionless sharp bends and corners in waveguides using epsilon-near-zero effects. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 044905	2.5	99
319	Dynamical theory of artificial optical magnetism produced by rings of plasmonic nanoparticles. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	99
318	Solution-processed phase-change VO(2) metamaterials from colloidal vanadium oxide (VO(x)) nanocrystals. <i>ACS Nano</i> , <b>2014</b> , 8, 797-806	16.7	96
317	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 093005	1.7	89
316	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2006</b> , 54, 1632-1643	4.9	88
315	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1988</b> , 36, 1007-1013	4.9	87
314	Hertzian plasmonic nanodimer as an efficient optical nanoantenna. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	84
313	Metamaterial special issue introduction. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2003</b> , 51, 2546-2549	4.9	83
312	Traditional and emerging materials for optical metasurfaces. <i>Nanophotonics</i> , <b>2017</b> , 6, 452-471	6.3	81
311	Imaging and steering an optical wireless nanoantenna link. <i>Nature Communications</i> , <b>2014</b> , 5, 4354	17.4	80
310	Three-dimensional nanotransmission lines at optical frequencies: A recipe for broadband negative-refraction optical metamaterials. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	79
309	Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. <i>Nano Letters</i> , <b>2013</b> , 13, 350-7	11.5	75
308	Theory of wave propagation in magnetized near-zero-epsilon metamaterials: evidence for one-way photonic states and magnetically switched transparency and opacity. <i>Physical Review Letters</i> , <b>2013</b> , 111, 257401	7.4	73
307	Homogenization of plasmonic metasurfaces modeled as transmission-line loads. <i>Metamaterials</i> , <b>2011</b> , 5, 90-96		73
306	Raspberry-like metamolecules exhibiting strong magnetic resonances. <i>ACS Nano</i> , <b>2015</b> , 9, 1263-70	16.7	71
305	All optical metamaterial circuit board at the nanoscale. <i>Physical Review Letters</i> , <b>2009</b> , 103, 143902	7.4	70
304	Fabrication of a dual-tier thin film micropolarization array. <i>Optics Express</i> , <b>2007</b> , 15, 4994-5007	3.3	69
303	Chirostructures as an invisible medium. <i>Electronics Letters</i> , <b>1989</b> , 25, 173	1.1	69

302	Antenna radiation in the presence of a chiral sphere. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 639-647	2.5	69
301	Single-Negative, Double-Negative, and Low-index Metamaterials and their Electromagnetic Applications. <i>IEEE Antennas and Propagation Magazine</i> , <b>2007</b> , 49, 23-36	1.7	68
300	Tunneling of obliquely incident waves through PT-symmetric epsilon-near-zero bilayers. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	67
299	Space-filling curve RFID tags		67
298	One-way phonon isolation in acoustic waveguides. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 081905	3.4	66
297	Optical isolation with epsilon-near-zero metamaterials. <i>Optics Express</i> , <b>2013</b> , 21, 3279-86	3.3	65
296	Cloaked near-field scanning optical microscope tip for noninvasive near-field imaging. <i>Physical Review Letters</i> , <b>2010</b> , 105, 263906	7.4	65
295	Internal homogenization: effective permittivity of a coated sphere. <i>Optics Express</i> , <b>2012</b> , 20, 22976-86	3.3	62
294	Nonradiating and radiating modes excited by quantum emitters in open epsilon-near-zero cavities. <i>Science Advances</i> , <b>2016</b> , 2, e1600987	14.3	62
293	Boosting molecular fluorescence with a plasmonic nanolauncher. <i>Physical Review Letters</i> , <b>2009</b> , 103, 043902	7.4	61
292	Light squeezing through arbitrarily shaped plasmonic channels and sharp bends. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	59
291	High-strength magnetically switchable plasmonic nanorods assembled from a binary nanocrystal mixture. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 228-232	28.7	56
290	Fourier optics on graphene. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	56
289	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1990</b> , 38, 1631-1634	4.1	56
288	Near-infrared metatronic nanocircuits by design. <i>Physical Review Letters</i> , <b>2013</b> , 111, 073904	7.4	55
287	Nonlinear control of tunneling through an epsilon-near-zero channel. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	54
286	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1989</b> , 37, 1447-1452	4.9	54
285	Chiroshield: a Salisbury/Dallenbach shield alternative. <i>Electronics Letters</i> , <b>1990</b> , 26, 1332	1.1	54

284	Infrared and optical invisibility cloak with plasmonic implants based on scattering cancellation. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	53
283	Antireflection temporal coatings. <i>Optica</i> , <b>2020</b> , 7, 323	8.6	53
282	Geometry-invariant resonant cavities. <i>Nature Communications</i> , <b>2016</b> , 7, 10989	17.4	52
281	Theory, Modeling and Features of Optical Nanoantennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1508-1517	4.9	52
280	Dual-tier thin film polymer polarization imaging sensor. <i>Optics Express</i> , <b>2010</b> , 18, 19292-303	3.3	52
279	Plasmon Resonances in Self-Assembled Two-Dimensional Au Nanocrystal Metamolecules. <i>ACS Nano</i> , <b>2017</b> , 11, 2917-2927	16.7	51
278	Transporting an Image through a Subwavelength Hole. <i>Physical Review Letters</i> , <b>2009</b> , 102, 103902	7.4	51
277	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 1698-1708	4.9	51
276	Reducing the Complexity: Enantioselective Chiral Near-Fields by Diagonal Slit and Mirror Configuration. <i>ACS Photonics</i> , <b>2016</b> , 3, 1076-1084	6.3	50
275	Control of light by curved space in nanophotonic structures. <i>Nature Photonics</i> , <b>2017</b> , 11, 664-670	33.9	49
274	PT-symmetry-induced wave confinement and guiding in $\mu$ -near-zero metamaterials. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	48
273	The rise of near-zero-index technologies. <i>Science</i> , <b>2017</b> , 358, 1540-1541	33.3	48
272	Separation and contrast enhancement of overlapping cast shadow components using polarization. <i>Optics Express</i> , <b>2006</b> , 14, 7099-108	3.3	48
271	Coupled-mode theory for chirowaveguides. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 2742-2745	2.5	48
270	Plasmonics without negative dielectrics. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	47
269	Terahertz epsilon-near-zero graded-index lens. <i>Optics Express</i> , <b>2013</b> , 21, 9156-66	3.3	46
268	Cloak/anti-cloak interactions. <i>Optics Express</i> , <b>2009</b> , 17, 3101-14	3.3	46
267	Bandwidth, cross-polarization, and feed-point characteristics of matched Hilbert antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2003</b> , 2, 2-5	3.8	45



266	Electric levitation using $\epsilon$ -near-zero metamaterials. <i>Physical Review Letters</i> , <b>2014</b> , 112, 033902	7.4	44
265	Electronically controlled optical beam-steering by an active phased array of metallic nanoantennas. <i>Optics Express</i> , <b>2013</b> , 21, 5198-208	3.3	44
264	Experimental Realization of an Epsilon-Near-Zero Graded-Index Metalens at Terahertz Frequencies. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	42
263	Nonreciprocal rotating power flow within plasmonic nanostructures. <i>Physical Review Letters</i> , <b>2013</b> , 111, 047401	7.4	42
262	Design of nanofilters for optical nanocircuits. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	42
261	Enhanced Directivity From Subwavelength Infrared/Optical Nano-Antennas Loaded With Plasmonic Materials or Metamaterials. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 3027-3039	4.9	42
260	Polaritonic Hybrid-Epsilon-near-Zero Modes: Beating the Plasmonic Confinement vs Propagation-Length Trade-Off with Doped Cadmium Oxide Bilayers. <i>Nano Letters</i> , <b>2019</b> , 19, 948-957	11.5	42
259	Waveguide metatronics: Lumped circuitry based on structural dispersion. <i>Science Advances</i> , <b>2016</b> , 2, e1501790	11.9	41
258	Nonlocal transformation optics. <i>Physical Review Letters</i> , <b>2012</b> , 108, 063902	7.4	41
257	Effects of shape and loading of optical nanoantennas on their sensitivity and radiation properties. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, 1266	1.7	41
256	Sub-wavelength resonators: on the use of metafilms to overcome the $\lambda/2$ size limit. <i>IET Microwaves, Antennas and Propagation</i> , <b>2008</b> , 2, 120-129	1.6	41
255	Surface waves in chiral layers. <i>Optics Letters</i> , <b>1991</b> , 16, 723-5	3	41
254	Reduction of surface waves in chirostrip antennas. <i>Electronics Letters</i> , <b>1991</b> , 27, 5-7	1.1	41
253	Plasmonic Optical and Chiroptical Response of Self-Assembled Au Nanorod Equilateral Trimers. <i>ACS Nano</i> , <b>2019</b> , 13, 1617-1624	16.7	41
252	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 33-44	4.9	40
251	Optical spectrometer at the nanoscale using optical Yagi-Uda nanoantennas. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	39
250	Coaxial-to-Waveguide Matching With $\epsilon$ -Near-Zero Ultranarrow Channels and Bends. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 328-339	4.9	38
249	Electrically controlled one-way photon flow in plasmonic nanostructures. <i>Nature Communications</i> , <b>2014</b> , 5, 5250	17.4	37

248	Cloaking a receiving antenna or a sensor with plasmonic metamaterials. <i>Metamaterials</i> , <b>2010</b> , 4, 153-159		37
247	Quadrupole-enhanced Raman scattering. <i>ACS Nano</i> , <b>2014</b> , 8, 9025-34	16.7	36
246	Mechanical 144 GHz beam steering with all-metallic epsilon-near-zero lens antenna. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 243503	3.4	36
245	Radiation from a traveling-wave current sheet at the interface between a conventional material and a metamaterial with negative permittivity and permeability. <i>Microwave and Optical Technology Letters</i> , <b>2002</b> , 35, 460-463	1.2	36
244	Electromagnetic wave propagation in the wire medium: a complex medium with long thin inclusions. <i>Wave Motion</i> , <b>2001</b> , 34, 301-317	1.8	36
243	Temporal aiming. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 129	16.7	36
242	Nanoscale plasmonic circulator. <i>New Journal of Physics</i> , <b>2013</b> , 15, 083054	2.9	35
241	Experimental Demonstration of a Millimeter-Wave Metallic ENZ Lens Based on the Energy Squeezing Principle. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 231-239	4.9	34
240	Extremely small wavevector regime in a one-dimensional photonic crystal heterostructure for angular transmission filtering. <i>Optics Letters</i> , <b>2016</b> , 41, 3829-32	3	34
239	$\epsilon$ -near-zero supercoupling. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	34
238	Transformation electronics: Tailoring the effective mass of electrons. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	34
237	Experimental verification of displacement-current conduits in metamaterials-inspired optical circuitry. <i>Physical Review Letters</i> , <b>2012</b> , 108, 193902	7.4	34
236	Transition radiation caused by a chiral plate. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1982</b> , 30, 1213-1216		34
235	Air-stable, nanostructured electronic and plasmonic materials from solution-processable, silver nanocrystal building blocks. <i>ACS Nano</i> , <b>2014</b> , 8, 2746-54	16.7	33
234	Zero-index structures as an alternative platform for quantum optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 822-827	11.5	32
233	Applied physics. Antenna-guided light. <i>Science</i> , <b>2011</b> , 334, 317-8	33.3	32
232	Taming light at the nanoscale. <i>Physics World</i> , <b>2010</b> , 23, 31-34	0.5	32
231	Chirostrip Antenna: Line Source Problem. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1992</b> , 6, 771-793	1.3	32

230	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1993</b> , 41, 1895-1906	4.1	32
229	Effective medium concept in temporal metamaterials. <i>Nanophotonics</i> , <b>2020</b> , 9, 379-391	6.3	32
228	Hotspots from nonreciprocal surface waves. <i>Optics Letters</i> , <b>2014</b> , 39, 1760-3	3	31
227	Guided propagation along quadrupolar chains of plasmonic nanoparticles. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	31
226	Modeling vanadium dioxide phase transition due to continuous-wave optical signals. <i>Optics Express</i> , <b>2015</b> , 23, 445-51	3.3	30
225	Extreme and Quantized Magneto-optics with Graphene Meta-atoms and Metasurfaces. <i>ACS Photonics</i> , <b>2014</b> , 1, 1068-1073	6.3	30
224	Cloaking mechanism with antiphase plasmonic satellites. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	30
223	Nanoinsulators and nanoconnectors for optical nanocircuits. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 064305	5	30
222	Bioinspired Focal-Plane Polarization Image Sensor Design: From Application to Implementation. <i>Proceedings of the IEEE</i> , <b>2014</b> , 102, 1435-1449	14.3	29
221	Lensing system and Fourier transformation using epsilon-near-zero metamaterials. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	29
220	Adaptive Polarization Contrast Techniques for Through-Wall Microwave Imaging Applications. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2009</b> , 47, 1362-1374	8.1	29
219	Parallel, series, and intermediate interconnections of optical nanocircuit elements 2 Nanocircuit and physical interpretation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 3014	1.7	29
218	Imaging and Steering Unidirectional Emission from Nanoantenna Array Metasurfaces. <i>ACS Photonics</i> , <b>2016</b> , 3, 286-292	6.3	28
217	Theory and potentials of multi-layered plasmonic covers for multi-frequency cloaking. <i>New Journal of Physics</i> , <b>2008</b> , 10, 115036	2.9	27
216	Effect of chirality on the Doppler shift and aberration of light waves. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 2274-2277	2.5	27
215	Metamaterials with high degrees of freedom: space, time, and more. <i>Nanophotonics</i> , <b>2020</b> , 10, 639-642	6.3	27
214	General class of metamaterial transformation slabs. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	26
213	Electromagnetic tunneling through a single-negative slab paired with a double-positive bilayer. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	26

212	Coupling of optical lumped nanocircuit elements and effects of substrates. <i>Optics Express</i> , <b>2007</b> , 15, 13865-76	5.76	25
211	A note on fractional calculus and the image method for dielectric spheres. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1995</b> , 9, 1179-1188	1.3	25
210	Spherical chiro-lenses. <i>Optics Letters</i> , <b>1990</b> , 15, 299	3	25
209	Nanoimprinted Chiral Plasmonic Substrates with Three-Dimensional Nanostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 7389-7394	11.5	25
208	Manipulating thermal emission with spatially static fluctuating fields in arbitrarily shaped epsilon-near-zero bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2878-2883	11.5	24
207	Reconfigurable epsilon-near-zero metasurfaces via photonic doping. <i>Nanophotonics</i> , <b>2018</b> , 7, 1117-1127	6.3	24
206	Salient Features of Deeply Subwavelength Guiding of Terahertz Radiation in Graphene-Coated Fibers. <i>ACS Photonics</i> , <b>2016</b> , 3, 737-742	6.3	24
205	Zero-Index Platforms: Where Light Defies Geometry. <i>Optics and Photonics News</i> , <b>2016</b> , 27, 26	1.9	24
204	Effective medium approach to electron waves: Graphene superlattices. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	23
203	On the performance of an ENZ-based sensor using transmission line theory and effective medium approach. <i>New Journal of Physics</i> , <b>2019</b> , 21, 043056	2.9	22
202	Supercoupling of surface waves with $\mu$ -near-zero metastructures. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	22
201	Dipole-dipole interactions mediated by epsilon-and-mu-near-zero waveguide supercoupling [Invited]. <i>Optical Materials Express</i> , <b>2017</b> , 7, 415	2.6	22
200	Achieving asymmetry and trapping in diffusion with spatiotemporal metamaterials. <i>Nature Communications</i> , <b>2020</b> , 11, 3733	17.4	22
199	$\epsilon$ -near-zero (ENZ) graded index quasi-optical devices: steering and splitting millimeter waves. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 094009	1.7	21
198	Spatial delocalization and perfect tunneling of matter waves: electron perfect lens. <i>Physical Review Letters</i> , <b>2013</b> , 110, 213902	7.4	21
197	Dispersion engineering via nonlocal transformation optics. <i>Optica</i> , <b>2016</b> , 3, 179	8.6	21
196	Optical nanoswitch: an engineered plasmonic nanoparticle with extreme parameters and giant anisotropy. <i>New Journal of Physics</i> , <b>2009</b> , 11, 013026	2.9	20
195	Display of polarization information by coherently moving dots. <i>Optics Express</i> , <b>2003</b> , 11, 1577-84	3.3	20

194	Core-Shell Nanowire Optical Antennas Fed by Slab Waveguides. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 3018-3026	4.9	19
193	Substrate-integrated photonic doping for near-zero-index devices. <i>Nature Communications</i> , <b>2019</b> , 10, 4132	17.4	18
192	Structural dispersion-based reduction of loss in epsilon-near-zero and surface plasmon polariton waves. <i>Science Advances</i> , <b>2019</b> , 5, eaav3764	14.3	18
191	Evanescent growth and tunneling through stacks of frequency-selective surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2005</b> , 4, 417-420	3.8	18
190	Capacitor-Inspired Metamaterial Inductors. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	18
189	One-atom-thick reflectors for surface plasmon polariton surface waves on graphene. <i>Optics Communications</i> , <b>2012</b> , 285, 3428-3430	2	17
188	Higher-order resonant power flow inside and around superdirective plasmonic nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, A89	1.7	17
187	Parallel, series, and intermediate interconnections of optical nanocircuit elements 1 Analytical solution. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 3007	1.7	17
186	Novel rotational characteristics of radiation patterns of chirostrip dipole antennas. <i>Microwave and Optical Technology Letters</i> , <b>1992</b> , 5, 31-34	1.2	17
185	Fundamental Radiative Processes in Near-Zero-Index Media of Various Dimensionalities. <i>ACS Photonics</i> , <b>2020</b> , 7, 1965-1970	6.3	17
184	Nonreciprocal Emission in Magnetized Epsilon-Near-Zero Metamaterials. <i>ACS Photonics</i> , <b>2019</b> , 6, 581-586	6.3	16
183	Optical isolation via unidirectional resonant photon tunneling. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 043107	10.7	16
182	Optical frequency mixing through nanoantenna enhanced difference frequency generation: Metatronic mixer. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	16
181	Metamaterials: Fundamentals and Applications in the Microwave and Optical Regimes [Scanning the Issue]. <i>Proceedings of the IEEE</i> , <b>2011</b> , 99, 1618-1621	14.3	16
180	Power scattering and absorption mediated by cloak/anti-cloak interactions: a transformation-optics route toward invisible sensors. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 2132	1.7	16
179	Analytical study of spherical cloak/anti-cloak interactions. <i>Wave Motion</i> , <b>2011</b> , 48, 455-467	1.8	16
178	Optical 'shorting wires'. <i>Optics Express</i> , <b>2007</b> , 15, 13773-82	3.3	16
177	Peano high-impedance surfaces. <i>Radio Science</i> , <b>2005</b> , 40, n/a-n/a	1.4	16

176	A step towards determining transient response of chiral materials: Kramers-Kronig relations for chiral parameters. <i>Electronics Letters</i> , <b>1990</b> , 26, 2132	1.1	16
175	Experimental verification of $\mu$ waveguide plasmonics. <i>New Journal of Physics</i> , <b>2017</b> , 19, 123017	2.9	15
174	General Impedance Matching via Doped Epsilon-Near-Zero Media. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	15
173	Coupling and guided propagation along parallel chains of plasmonic nanoparticles. <i>New Journal of Physics</i> , <b>2011</b> , 13, 033026	2.9	15
172	Subwavelength plasmonic cavity resonator on a nanowire with periodic permittivity variation. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	15
171	An Overview of Salient Properties of Planar Guided-Wave Structures with Double-Negative (DNG) and Single-Negative (SNG) Layers <b>2005</b> , 339-380		15
170	Use of Fractional Integration to Propose Some "Fractional" Solutions for the Scalar Helmholtz Equation. <i>Progress in Electromagnetics Research</i> , <b>1996</b> , 12, 107-132	3.8	15
169	NEMS With Broken T Symmetry: Graphene Based Unidirectional Acoustic Transmission Lines. <i>Scientific Reports</i> , <b>2015</b> , 5, 9926	4.9	14
168	Optical Metamaterials Based on Optical Nanocircuits. <i>Proceedings of the IEEE</i> , <b>2011</b> , 99, 1669-1681	14.3	14
167	Switching capability of double-sided grating with horizontal shift. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 053108	10.4	14
166	On fractional paradigm and intermediate zones in electromagnetism: I. Planar observation. <i>Microwave and Optical Technology Letters</i> , <b>1999</b> , 22, 236-241	1.2	14
165	On fractional paradigm and intermediate zones in electromagnetism: II. Cylindrical and spherical observations. <i>Microwave and Optical Technology Letters</i> , <b>1999</b> , 23, 100-103	1.2	14
164	A single inverse-designed photonic structure that performs parallel computing. <i>Nature Communications</i> , <b>2021</b> , 12, 1466	17.4	14
163	Plasmonic and new plasmonic materials: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 178, 123-49	3.6	13
162	Roles of epsilon-near-zero (ENZ) and mu-near-zero (MNZ) materials in optical metatronic circuit networks. <i>Optics Express</i> , <b>2014</b> , 22, 25109-19	3.3	13
161	One-Way Waveguides Connected to One-Way Loads. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 1398-1401	3.8	13
160	Role of propagating modes in a double-groove grating with a +1st-order diffraction angle larger than the substrate-air critical angle. <i>Optics Letters</i> , <b>2010</b> , 35, 3973-5	3	13
159	Emission Enhancement in a Plasmonic Waveguide at Cut-Off. <i>Materials</i> , <b>2011</b> , 4, 141-152	3.5	13

158	Physical insight into the "growing" evanescent fields of double-negative metamaterial lenses using their circuit equivalence. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2006</b> , 54, 268-272	4.9	13
157	Phase and amplitude of fractional-order intermediate wave. <i>Microwave and Optical Technology Letters</i> , <b>1999</b> , 21, 338-343	1.2	13
156	Functional analysis of the polarization response in linear time-varying media: A generalization of the Kramers-Kronig relations. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	13
155	Time-varying materials in the presence of dispersion: plane-wave propagation in a Lorentzian medium with temporal discontinuity. <i>Photonics Research</i> , <b>2021</b> , 9, 1842	6	13
154	Enhanced Faraday rotation via resonant tunnelling in tri-layers containing magneto-optical metals. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 025002	3	12
153	Wormhole for electron waves in graphene. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	12
152	Probing polarization and dielectric function of molecules with higher order harmonics in scattering near-field scanning optical microscopy. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 114307	2.5	12
151	Robustness in design and background variations in metamaterial/plasmonic cloaking. <i>Radio Science</i> , <b>2008</b> , 43, n/a-n/a	1.4	12
150	FSS-Based EBG Surfaces		12
149	The Measured Electric Field Spatial Distribution Within A Metamaterial Subwavelength Cavity Resonator. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 1781-1788	4.9	12
148	Theory of simultaneous control of orientation and translational motion of nanorods using positive dielectrophoretic forces. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 124314	2.5	12
147	Exploiting space-time duality in the synthesis of impedance transformers via temporal metamaterials. <i>Nanophotonics</i> , <b>2021</b> ,	6.3	12
146	Multiqubit subradiant states in N-port waveguide devices: $\mu$ -and $\epsilon$ -near-zero hubs and nonreciprocal circulators. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	11
145	Thin absorbers using space-filling curve artificial magnetic conductors. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 785-790	1.2	11
144	Brenkov radiation in chiral media. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 4393-4398	2.5	11
143	Nonperturbative Effective Magnetic Nonlinearity in ENZ Media Doped with Kerr Dielectric Inclusions. <i>ACS Photonics</i> , <b>2019</b> , 6, 2823-2831	6.3	10
142	One-way surface states due to nonreciprocal light-line crossing. <i>New Journal of Physics</i> , <b>2015</b> , 17, 063014	4.9	10
141	From RF Circuits to Optical Nanocircuits. <i>IEEE Microwave Magazine</i> , <b>2012</b> , 13, 100-113	1.2	10

140	Metamaterial-inspired model for electron waves in bulk semiconductors. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	10
139	Image sensor with focal plane polarization sensitivity <b>2008</b> ,		10
138	Introduction, History, and Selected Topics in Fundamental Theories of Metamaterials1-41		10
137	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1994</b> , 42, 1690-1694	4.1	10
136	Metamaterials: Two Decades Past and Into Their Electromagnetics Future and Beyond. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1232-1237	4.9	10
135	Near-zero-index media as electromagnetic ideal fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 24050-24054	11.5	10
134	Temperature-controlled acoustic surface waves. <i>New Journal of Physics</i> , <b>2016</b> , 18, 103006	2.9	10
133	Spatiotemporal isotropic-to-anisotropic meta-atoms. <i>New Journal of Physics</i> , <b>2021</b> , 23, 095006	2.9	10
132	Antireflection structure for an effective refractive index near-zero medium in a two-dimensional photonic crystal. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9
131	Compact leaky-wave components using metamaterial bilayers <b>2005</b> ,		9
130	Fractional curl operator in reflection problems		9
129	Anomalous mode coupling in guided-wave structures containing metamaterials with negative permittivity and permeability		9
128	Non-Hermitian doping of epsilon-near-zero media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13921-13928	11.5	8
127	Dispersion synthesis with multi-ordered metatronic filters. <i>Optics Express</i> , <b>2017</b> , 25, 1937-1948	3.3	8
126	Ultralight Angstrom-Scale Optimal Optical Reflectors. <i>ACS Photonics</i> , <b>2018</b> , 5, 384-389	6.3	8
125	Metatronic analogues of the Wheatstone bridge. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, A72	1.7	8
124	Enhancement of radiation from dielectric waveguides using resonant plasmonic coreshells. <i>Optics Express</i> , <b>2012</b> , 20, 16104-12	3.3	8
123	Parallel-chain optical transmission line for a low-loss ultraconfined light beam. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	8



122	Dispersion Characteristics of Metamaterial Cloaking Structures. <i>Electromagnetics</i> , <b>2008</b> , 28, 464-475	0.8	8
121	Is Foster's reactance theorem satisfied in double-negative and single-negative media?. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 39, 11-14	1.2	8
120			8
119	Chirostrip Antenna: Line Source Problem. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1992</b> , 6, 771-793	1.3	8
118	A Fully Integrated Sensor-BrainMachine Interface System for Restoring Somatosensation. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 4764-4775	4	8
117	OPTICS. 150 years of Maxwell's equations. <i>Science</i> , <b>2015</b> , 349, 136-7	33.3	7
116	Giant nonlinearity in zero-gap semiconductor superlattices. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	7
115	Experimental investigation of double-groove grating satisfying total internal reflection condition. <i>Optics Express</i> , <b>2014</b> , 22, 25362-70	3.3	7
114	Guidance Properties of Plasmonic Nanogrooves: Comparison Between the Effective Index Method and the Finite Integration Technique. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 199-202	3.8	7
113	Arm-edge conditions in plasmonic folded dipole nanoantennas. <i>Optics Express</i> , <b>2011</b> , 19, 12325-35	3.3	7
112	Polarization-based non-staining cell detection. <i>Optics Express</i> , <b>2012</b> , 20, 25378-90	3.3	7
111	Numerical study of polarization-dependent focusing for a bilayer planar FSS reflective lens at millimeter wavelengths. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 40, 361-365	1.2	7
110	Metamaterials with negative permittivity and permeability: background, salient features, and new trends		7
109	Effect of Chiral Material Loss on Guided Electromagnetic Modes in Parallel-Plate Chirowaveguides. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1993</b> , 7, 1307-1321	1.3	7
108	Modal Analysis for Rectangular Chirowaveguides with Metallic Walls Using the Finite-Difference Method. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1992</b> , 6, 1277-1285	1.3	7
107	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1993</b> , 41, 1878-1886	4.1	7
106	Topological Insulator Antenna Arrays. <i>ACS Photonics</i> , <b>2020</b> , 7, 2244-2251	6.3	7
105	Extreme-Parameter Non-Hermitian Dielectric Metamaterials. <i>ACS Photonics</i> , <b>2020</b> , 7, 2578-2588	6.3	7

104	Magnetic field concentration assisted by epsilon-near-zero media. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	6
103	Possibility for inhibited spontaneous emission in electromagnetically open parity-time-symmetric guiding structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 5576-5581	11.5	6
102	Nonlinear metamaterial absorbers enabled by photonic doping of epsilon-near-zero metastructures. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	6
101	Metatronic transistor amplifier. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	6
100	A Monolithic CMOS Image Sensor With Wire-Grid Polarizer Filter Mosaic in the Focal Plane. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 855-862	2.9	6
99	Design of a monolithic CMOS image sensor integrated focal plane wire-grid polarizer filter mosaic <b>2012</b> ,		6
98	One-Atom-Thick Metamaterials and Transformation Optics with Graphene. <i>Optics and Photonics News</i> , <b>2011</b> , 22, 44	1.9	6
97	Sampling and squeezing electromagnetic waves through subwavelength ultranarrow regions or openings. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	6
96	Advances in integrated polarization image sensors <b>2009</b> ,		6
95	Image sensor with focal plane extraction of polarimetric information		6
94	Fundamentals of Waveguide and Antenna Applications Involving DNG and SNG Metamaterials 43-85		6
93	Enabling a new degree of wave control with metamaterials: a personal perspective. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 084008	1.7	5
92	Nanocircuit Loading of Plasmonic Waveguides. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 4381-4390	4.9	5
91	Genetically Optimized Metasurface Pairs for Wideband Out-of-Phase Mutual Response. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2008</b> , 7, 788-791	3.8	5
90	Small dipole-antenna near Peano high-impedance surfaces <b>2004</b> ,		5
89	Effect of chirality on the transient signal wave front. <i>Optics Letters</i> , <b>1991</b> , 16, 1924-6	3	5
88	Modal interference in spiky nanoshells. <i>Optics Express</i> , <b>2015</b> , 23, 11290-311	3.3	4
87	Comparison of Waveguiding Properties of Plasmonic Voids and Plasmonic Waveguides <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7462-7471	3.8	4

86	Nano-wire dual layer polarization filter <b>2009</b> ,		4
85	Anomalies of subdiffractive guided wave propagation along metamaterial nanocomponents. <i>Radio Science</i> , <b>2007</b> , 42,	1.4	4
84	Nanocircuit elements, nano-transmission lines and nano-antennas using plasmonic materials in the optical domain		4
83	Nanotechnology and Active Thin Films for Compact RF Components and Agile Systems. <i>Ferroelectrics</i> , <b>2006</b> , 342, 163-182	0.6	4
82	DNG, SNG, ENZ and MNZ Metamaterials and Their Potential Applications		4
81	Waveguide Experiments to Characterize Properties of SNG and DNG Metamaterials87-111		4
80	Mutual coupling in finite-length thin wire chirostrip antennas. <i>Microwave and Optical Technology Letters</i> , <b>1993</b> , 6, 671-675	1.2	4
79	Field Uniformity Criteria for the Design of a Two-Wire EMP Simulator. <i>Electromagnetics</i> , <b>1988</b> , 8, 29-35	0.8	4
78	Reply: Chirostrip is an invisible medium. <i>Electronics Letters</i> , <b>1989</b> , 25, 1060	1.1	4
77	All-metallic epsilon-near-zero graded-index converging lens at terahertz frequencies <b>2018</b> ,		4
76	Design of a low power impulse-radio ultra-wide band wireless electrogoniometer <b>2015</b> ,		3
75	Optical emission near a high-impedance mirror. <i>Nature Communications</i> , <b>2018</b> , 9, 3224	17.4	3
74	Dipole-dipole interactions mediated by epsilon-and-mu-near-zero waveguide supercoupling: publisher's note. <i>Optical Materials Express</i> , <b>2017</b> , 7, 1096	2.6	3
73	Asymmetrical Diffusion through Time-Varying Material Parameters <b>2017</b> ,		3
72	Incident angle dependency of propagating modes in rectangular grating for polarization-independent $\pm 1$ ST order diffraction or polarization splitting. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 1362-1369	1.2	3
71	Metamaterial inclusions based on grid-graph Hamiltonian paths. <i>Microwave and Optical Technology Letters</i> , <b>2006</b> , 48, 2520-2524	1.2	3
70	Miniaturized circular patch antenna with metamaterial loading <b>2006</b> ,		3
69	Review of Theory, Fabrication, and Applications of High-Impedance Ground Planes285-311		3

68	Radiation characteristics of microstrip dipole antennas over a high-impedance metamaterial surface made of Hilbert inclusions		3
67	Metamaterial bilayers for enhancement of wave transmission through a small hole in a flat perfectly conducting screen <b>2004</b> ,		3
66	Reflection from a lossy chiral slab (with and without metallic backing) in a parallel plate waveguide. <i>Radio Science</i> , <b>1995</b> , 30, 827-834	1.4	3
65	Soft surfaces and enhanced nonlinearity enabled via epsilon-near-zero media doped with zero-area perfect electric conductor inclusions. <i>Optics Letters</i> , <b>2020</b> , 45, 4591-4594	3	3
64	Nonreciprocal guided waves in the presence of swift electron beams. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
63	Momentum considerations inside near-zero index materials.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 110	16.7	3
62	Young's Double-Slit, Invisible Objects and the Role of Noise in an Optical Epsilon-near-Zero Experiment. <i>ACS Photonics</i> , <b>2017</b> , 4, 2566-2572	6.3	2
61	Electromagnetic Funnel: Reflectionless Transmission and Guiding of Waves through Subwavelength Apertures. <i>Physical Review Letters</i> , <b>2020</b> , 124, 033901	7.4	2
60	Correction to Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. <i>ACS Photonics</i> , <b>2016</b> , 3, 2000-2002	6.3	2
59	The Role of Commercial Simulators and Multidisciplinary Training in Graduate-Level Electromagnetics Education [Education Corner]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2017</b> , 59, 127-130	1.7	2
58	Extremely anisotropic boundary conditions and their optical applications. <i>Radio Science</i> , <b>2011</b> , 46, n/a-n/a.4		2
57	PLASMONIC CLOAKING: SCATTERING CANCELLATION WITHOUT ISOLATION <b>2011</b> , 263-283		2
56	A transformation-optics-inspired route to sensor invisibility based on cloak/anti-cloak interactions <b>2010</b> ,		2
55	Frequency Response of a Gangbuster-Surface Off-set Reflectarray Antenna <b>2006</b> ,		2
54	Refraction Experiments in Waveguide Environments113-140		2
53	Polarization enhanced visual surveillance techniques		2
52	Mutual coupling effects in space-filling-curve antennas		2
51	Fractionalization methods and their applications to radiation and scattering problems		2

50	Fractional derivatives, fractional integrals and electromagnetic theory		2
49	Corrections to "Modal Analysis for Rectangular Chirowaveguides with Metallic Walls Using the Finite-Difference Method," by P. Pelet and N. Engheta, Vol. 6, No. 9, 1277-1285, 1992. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1995</b> , 9, 285-285	1.3	2
48	Field dependence of the optical activity of a chiral liquid crystal near the isotropic-liquid A transition. <i>Liquid Crystals</i> , <b>1993</b> , 14, 1439-1443	2.3	2
47	Curved Space Nanophotonics Inspired by General Relativity <b>2016</b> ,		2
46	Fractional curl operator in electromagnetics <b>1998</b> , 17, 86		2
45	Two cases of spatial transformations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	1
44	Microwave analogues of multi-ordered metatronic filters with waveguide metamaterials <b>2016</b> ,		1
43	<b>2014</b> ,		1
42	Extreme magneto-optics with graphene metasurfaces <b>2014</b> ,		1
41	Nonreciprocal passive metastructure without magnetic bias <b>2013</b> ,		1
40	Transparent metasurface with prescribed aperture field <b>2017</b> ,		1
39	SIMULATING WAVE PHENOMENA IN LARGE GRADED-PATTERN ARRAYS WITH RANDOM PERTURBATION. <i>Progress in Electromagnetics Research</i> , <b>2015</b> , 154, 127-141	3.8	1
38	Peculiar terminals in light at the extreme. <i>Faraday Discussions</i> , <b>2015</b> , 178, 37-44	3.6	1
37	Design of a current mode polarization arithmetic analyzer <b>2014</b> ,		1
36	Antenna matching in $\mu$ -near-zero metamaterial channels <b>2009</b> ,		1
35	Introduction to the Special Issue on Metamaterials. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 363-366	3.8	1
34	Squeezing electromagnetic energy through narrow 3-D coaxial channels of arbitrary shape filled with Epsilon-Near-Zero materials <b>2007</b> ,		1
33	Metamaterials for transparency and total scattering reduction <b>2007</b> ,		1

32	Metamaterials in the far infrared: ideas for left-handed metamaterials and micro- and nanocircuit elements in the terahertz regime <b>2006,</b>		1
31	Radiation Characteristics and Beam Forming of Multi-Particle Nanoantennas at Optical Frequencies		1
30	Superprism Effects and EBG Antenna Applications261-283		1
29	Tunable radiation enhancement and suppression using a pair of photonically doped epsilon-near-zero (ENZ) slabs.. <i>Optics Letters</i> , <b>2022</b> , 47, 1319-1322	3	1
28	3D Nanophotonic Structures Constructed in a Curved Space Inspired by General Relativity Concepts <b>2016,</b>		1
27	Inverse designed metagratings for far-field integral equations solving <b>2020,</b>		1
26	Tailoring of modal losses in anisotropic 2D material ribbons by regulating material absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 3681	1.7	1
25	From Plasmonic Nanocircuit Elements to Volumetric Photonic Negative-Refractive Metamaterials <b>2006,</b>		1
24	Extreme Platforms for Metaphotonics <b>2017,</b>		1
23	Can Optical Nanoantenna Links Compete with Plasmonic Waveguide Connections? <b>2009,</b>		1
22	Transformation-Based Cloak/Anti-Cloak Interactions: A Review <b>2014</b> , 167-190		1
21	Antireflection temporal coatings: reply. <i>Optica</i> , <b>2021</b> , 8, 826	8.6	1
20	Structuring band-pass dispersion with cascaded high- and low-pass optical metatronic metasurfaces <b>2016,</b>		1
19	Solving integral equations with inverse-designed metagratings at optical wavelengths <b>2021,</b>		1
18	Salient Features of Temporal and Spatio-Temporal Metamaterials <b>2018,</b>		1
17	How does light behave in a material whose refractive index vanishes?. <i>Physics Today</i> , <b>2022</b> , 75, 62-63	0.9	1
16	Space-Filling Curve High-Impedance Ground Planes377-402		0
15	Development of Complex Artificial Ground Planes in Antenna Engineering313-349		0

14	Dependence of the Efficiency of the Nonlinear-Optical Response of Materials on their Linear Permittivity and Permeability. <i>Laser and Photonics Reviews</i> , 2100032	8.3	o
13	Experimental demonstration of deeply subwavelength dielectric sensing with epsilon-near-zero (ENZ) waveguides. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 081106	3.4	o
12	In pursuit of waves. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 394	28.7	
11	Selected Applications of Transformation Electromagnetics. <i>Advances in Science and Technology</i> , <b>2010</b> , 75, 246-255	0.1	
10	Optical Nanoelectronics with Metamaterials <b>2006</b> , ThA1		
9	New Technology Directions Committee Report - Call for Special Sessions for the 2008 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting. <i>IEEE Antennas and Propagation Magazine</i> , <b>2007</b> , 49, 176-177	1.7	
8	Now procedure for organizing special sessions at the IEEE AP-S/URSI/USNC Symposia. <i>IEEE Antennas and Propagation Magazine</i> , <b>2005</b> , 47, 130-130	1.7	
7	Microwave Coupler and Resonator Applications of NRI Planar Structures 191-210		
6	Antenna Applications and Subwavelength Focusing Using Negative-Refractive-Index Transmission Line Structures 141-169		
5	Resonance Cone Antennas 171-190		
4	Historical Perspective and Review of Fundamental Principles in Modeling Three-Dimensional Periodic Structures with Emphasis on Volumetric EBGs 211-238		
3	Fabrication, Experimentation, and Applications of EBG Structures 239-259		
2	Reply: A step towards determining transient response of chiral materials: Kramers-Kronig relations for chiral parameters. <i>Electronics Letters</i> , <b>1991</b> , 27, 868-869	1.1	
1	Surface Electromagnetics: With Applications in Antennas, Microwave, and Optical Engineering [Book Review]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2020</b> , 62, 138-139	1.7	