

Mario G Silveirinha

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

194
papers

7,292
citations

37
h-index

80
g-index

240
ext. papers

8,595
ext. citations

3.8
avg, IF

6.84
L-index

#	Paper	IF	Citations
194	Nonreciprocal and Non-Hermitian Material Response Inspired by Semiconductor Transistors.. <i>Physical Review Letters</i> , 2022 , 128, 013902	7.4	3
193	A graphene inspired electromagnetic superlens. <i>New Journal of Physics</i> , 2022 , 24, 033036	2.9	
192	Time Reversal Symmetry and Topology in Electromagnetics. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2022 , 71-87	0.2	
191	First Principles Calculation of the Topological Phases of the Photonic Haldane Model. <i>Symmetry</i> , 2021 , 13, 2229	2.7	0
190	Active Graphene Plasmonics with a Drift-Current Bias. <i>ACS Photonics</i> , 2021 , 8, 1129-1136	6.3	6
189	Nonreciprocal guided waves in the presence of swift electron beams. <i>Physical Review B</i> , 2021 , 103,	3.3	3
188	Homogenization Theory of Space-Time Metamaterials. <i>Physical Review Applied</i> , 2021 , 16,	4.3	14
187	Asymmetric Electron Energy Loss in Drift-Current Biased Graphene. <i>Plasmonics</i> , 2021 , 16, 19-26	2.4	3
186	Photon localization and Bloch symmetry breaking in luminal gratings. <i>Physical Review B</i> , 2021 , 104,	3.3	2
185	Monopole embedded eigenstates in nonlocal plasmonic nanospheres. <i>Applied Physics Letters</i> , 2021 , 119, 261101	3.4	1
184	Comment on Additional Boundary Condition for Electric Quadrupolar Continua Derived from Maxwell's Differential Equations by A.D. Yaghjian and M.G. Silveirinha. <i>Radio Science</i> , 2020 , 55, e2019RS007034	1.4	0
183	Non-Reciprocal, Robust Surface Plasmon Polaritons on Gyrotropic Interfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 3718-3729	4.9	16
182	Multiple embedded eigenstates in nonlocal plasmonic nanostructures. <i>Physical Review B</i> , 2020 , 101,	3.3	4
181	First principles homogenization of periodic metamaterials and application to wire media. <i>Comptes Rendus Physique</i> , 2020 , 21, 367-388	1.4	2
180	An Equivalent ABCD-Matrix Formalism for Non-Local Wire Media With Arbitrary Terminations. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1786-1798	4.9	1
179	Comb-Like Modal Dispersion Diagram in a Double-Wire Medium Slab. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1755-1760	4.9	0
178	Effective Local Permittivity Model for Nonlocal Wire Media. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2926-2936	4.9	

177	Nonlocal effects and enhanced nonreciprocity in current-driven graphene systems. <i>Physical Review B</i> , 2020 , 102,	3.3	15
176	First principles calculation of topological invariants of non-Hermitian photonic crystals. <i>Communications Physics</i> , 2020 , 3,	5.4	6
175	Quantized angular momentum in topological optical systems. <i>Nature Communications</i> , 2019 , 10, 349	17.4	9
174	Unidirectional and diffractionless surface plasmon polaritons on three-dimensional nonreciprocal plasmonic platforms. <i>Physical Review B</i> , 2019 , 99,	3.3	22
173	Time-reversal Symmetry in Antenna Theory. <i>Symmetry</i> , 2019 , 11, 486	2.7	7
172	Non-Markovian transient Casimir-Polder force and population dynamics on excited- and ground-state atoms: Weak- and strong-coupling regimes in generally nonreciprocal environments. <i>Physical Review A</i> , 2019 , 99,	2.6	2
171	Proof of the Bulk-Edge Correspondence through a Link between Topological Photonics and Fluctuation-Electrodynamics. <i>Physical Review X</i> , 2019 , 9,	9.1	22
170	Topological theory of non-Hermitian photonic systems. <i>Physical Review B</i> , 2019 , 99,	3.3	19
169	Topological Origin of Electromagnetic Energy Sinks. <i>Physical Review Applied</i> , 2019 , 12,	4.3	14
168	Spontaneous rotational symmetry breaking in a Kramers two-level system. <i>Physical Review B</i> , 2019 , 100,	3.3	1
167	Photonic analogues of the Haldane and Kane-Mele models. <i>Nanophotonics</i> , 2019 , 8, 1387-1397	6.3	8
166	Uniform-velocity spacetime crystals. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	11
165	Hidden time-reversal symmetry in dissipative reciprocal systems. <i>Optics Express</i> , 2019 , 27, 14328-14337	3.3	11
164	Morgado and Silveirinha Reply. <i>Physical Review Letters</i> , 2019 , 123, 219402	7.4	10
163	Exact Solution for the Protected TEM Edge Mode in a PTD-Symmetric Parallel-Plate Waveguide. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1035-1044	4.9	10
162	Fluctuation-induced forces on an atom near a photonic topological material. <i>Physical Review A</i> , 2018 , 97,	2.6	29
161	Link between the photonic and electronic topological phases in artificial graphene. <i>Physical Review B</i> , 2018 , 97,	3.3	9
160	Discrete Light Spectrum of Complex-Shaped Meta-atoms. <i>Radio Science</i> , 2018 , 53, 144-153	1.4	3

159	Topological classification of Chern-type insulators by means of the photonic Green function. <i>Physical Review B</i> , 2018 , 97,	3.3	16
158	Simulating electron wave dynamics in graphene superlattices exploiting parallel processing advantages. <i>Computer Physics Communications</i> , 2018 , 222, 240-249	4.2	1
157	Asymmetric Transmission and Isolation in Nonlinear Devices: Why They Are Different. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1953-1957	3.8	14
156	Optical torque on a two-level system near a strongly nonreciprocal medium. <i>Physical Review B</i> , 2018 , 98,	3.3	9
155	Topologically induced transparency in a two-phase metamaterial. <i>Applied Physics Letters</i> , 2018 , 113, 131106	3.3	16
154	Drift-Induced Unidirectional Graphene Plasmons. <i>ACS Photonics</i> , 2018 , 5, 4253-4258	6.3	36
153	Asymmetric Cherenkov emission in a topological plasmonic waveguide. <i>Physical Review B</i> , 2018 , 98,	3.3	8
152	Spontaneous lateral atomic recoil force close to a photonic topological material. <i>Physical Review B</i> , 2018 , 97,	3.3	16
151	Berry Phase, Berry Connection, and Chern Number for a Continuum Bianisotropic Material From a Classical Electromagnetics Perspective. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2017 , 2, 3-17	1.5	55
150	P _T symmetry-protected scattering anomaly in optics. <i>Physical Review B</i> , 2017 , 95,	3.3	36
149	Negative spontaneous emission by a moving two-level atom. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 014004	1.7	11
148	Experimental verification of \mathbb{Z}_2 waveguide plasmonics. <i>New Journal of Physics</i> , 2017 , 19, 123017	2.9	15
147	Negative Landau Damping in Bilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 133901	7.4	42
146	Bistability in mushroom-type metamaterials. <i>Journal of Applied Physics</i> , 2017 , 122, 014303	2.5	6
145	Systematic development of a robust circuit-model technique for subwavelength imaging with wire-medium type lenses 2017 ,		1
144	Reexamination of the Abraham-Minkowski dilemma. <i>Physical Review A</i> , 2017 , 96,	2.6	18
143	Light tunneling anomaly in interlaced metallic wire meshes. <i>Physical Review B</i> , 2017 , 96,	3.3	5
142	Topological angular momentum and radiative heat transport in closed orbits. <i>Physical Review B</i> , 2017 , 95,	3.3	27

141	Local thickness-dependent permittivity of wire media in CST microwave studio 2017 ,		1
140	Optical isolation of circularly polarized light with a spontaneous magnetoelectric effect. <i>Physical Review A</i> , 2016 , 93,	2.6	18
139	Z2 topological index for continuous photonic materials. <i>Physical Review B</i> , 2016 , 93,	3.3	33
138	Magnetic uniaxial wire medium. <i>Physical Review B</i> , 2016 , 93,	3.3	3
137	Bulk-edge correspondence for topological photonic continua. <i>Physical Review B</i> , 2016 , 94,	3.3	54
136	Single-interface Casimir torque. <i>New Journal of Physics</i> , 2016 , 18, 103030	2.9	5
135	Slow down of a globally neutral relativistic e ⁺ -beam shearing the vacuum. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014025	2	5
134	Local thickness-dependent permittivity model for nonlocal bounded wire-medium structures. <i>Physical Review B</i> , 2016 , 94,	3.3	8
133	Near-field transport by a bent multi-wire endoscope. <i>Journal of Applied Physics</i> , 2016 , 120, 063103	2.5	2
132	Time evolution of electron waves in graphene superlattices. <i>AIP Advances</i> , 2016 , 6, 075109	1.5	3
131	Wave instabilities and unidirectional light flow in a cavity with rotating walls. <i>Physical Review A</i> , 2016 , 94,	2.6	22
130	Additional boundary condition for electric quadrupolar continua derived from Maxwell's differential equations. <i>Radio Science</i> , 2016 , 51, 1312-1321	1.4	3
129	Single-Beam Optical Conveyor Belt for Chiral Particles. <i>Physical Review Applied</i> , 2016 , 6,	4.3	12
128	Two cases of spatial transformations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	1
127	Review of 20 Years of Research on Microwave and Millimeter-wave Lenses at "Instituto de Telecomunicações". <i>IEEE Antennas and Propagation Magazine</i> , 2015 , 57, 249-268	1.7	11
126	Effective Hamiltonian for electron waves in artificial graphene: A first-principles derivation. <i>Physical Review B</i> , 2015 , 91,	3.3	8
125	Chern invariants for continuous media. <i>Physical Review B</i> , 2015 , 92,	3.3	112
124	Embedded energy state in an open semiconductor heterostructure. <i>Physical Review B</i> , 2015 , 92,	3.3	8

123	ELECTRIC QUADRUPOLEARIZABILITY OF A SOURCE-DRIVEN DIELECTRIC SPHERE. <i>Progress in Electromagnetics Research B</i> , 2015 , 63, 95-106	0.7	3
122	Analytical Solution for the Stopping Power of the Cherenkov Radiation in a Uniaxial Nanowire Material. <i>Photonics</i> , 2015 , 2, 702-718	2.2	11
121	Super-collimation of the radiation by a point source in a uniaxial wire medium. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 14	0.8	1
120	Optical tractor beam with chiral light. <i>Physical Review A</i> , 2015 , 91,	2.6	20
119	μ -near-zero supercoupling. <i>Physical Review B</i> , 2015 , 91,	3.3	34
118	Optical meta-atom for localization of light with quantized energy. <i>Nature Communications</i> , 2015 , 6, 8766	7.4	51
117	A Graphical Aid for the Complex Permittivity Measurement at Microwave and Millimeter Wavelengths. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 421-423	2.6	7
116	Trapping light in open plasmonic nanostructures. <i>Physical Review A</i> , 2014 , 89,	2.6	111
115	Asymmetric Mushroom-Type Metamaterials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 8-17	4.1	4
114	Spatially Confined UHF RFID Detection With a Metamaterial Grid. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 378-384	4.9	8
113	Giant nonlinearity in zero-gap semiconductor superlattices. <i>Physical Review B</i> , 2014 , 89,	3.3	7
112	Theory of quantum friction. <i>New Journal of Physics</i> , 2014 , 16, 063011	2.9	31
111	Wormhole for electron waves in graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	12
110	Radiation from a short vertical dipole in a metal-backed rod array. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014 , 12, 350-359	2.6	
109	Bright and dark spatial solitons in metallic nanowire arrays. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014 , 12, 340-349	2.6	5
108	Boundary conditions for quadrupolar metamaterials. <i>New Journal of Physics</i> , 2014 , 16, 083042	2.9	10
107	Reversed rainbow with a nonlocal metamaterial. <i>Applied Physics Letters</i> , 2014 , 105, 264101	3.4	5
106	Optical Instabilities and Spontaneous Light Emission by Polarizable Moving Matter. <i>Physical Review X</i> , 2014 , 4,	9.1	27

105	Spontaneous parity-time-symmetry breaking in moving media. <i>Physical Review A</i> , 2014 , 90,	2.6	20
104	Anisotropic Representation for Spatially Dispersive Periodic Metamaterial Arrays 2014 , 395-457		4
103	Spatial delocalization and perfect tunneling of matter waves: electron perfect lens. <i>Physical Review Letters</i> , 2013 , 110, 213902	7.4	21
102	Homogenization of spatially dispersive metamaterial arrays in terms of generalized electric and magnetic polarizations. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013 , 11, 374-396	2.6	12
101	Radiation From a Hertzian Dipole Embedded in a Wire-Medium Slab. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 401-404	3.8	4
100	Quantization of the electromagnetic field in nondispersive polarizable moving media above the Cherenkov threshold. <i>Physical Review A</i> , 2013 , 88,	2.6	13
99	Ultrahigh Casimir interaction torque in nanowire systems. <i>Optics Express</i> , 2013 , 21, 14943-55	3.3	23
98	Non-local susceptibility of the wire medium in the spatial domain considering material boundaries. <i>New Journal of Physics</i> , 2013 , 15, 083018	2.9	13
97	Quantum friction on monoatomic layers and its classical analog. <i>Physical Review B</i> , 2013 , 88,	3.3	10
96	Effective medium response of metallic nanowire arrays with a Kerr-type dielectric host. <i>Physical Review B</i> , 2013 , 87,	3.3	12
95	Fano resonances in nested wire media. <i>Physical Review B</i> , 2013 , 88,	3.3	8
94	Theory of spatial optical solitons in metallic nanowire materials. <i>Physical Review B</i> , 2013 , 87,	3.3	12
93	Transformation electronics: Tailoring the effective mass of electrons. <i>Physical Review B</i> , 2012 , 86,	3.3	34
92	Modeling of Spatially-Dispersive Wire Media: Transport Representation, Comparison With Natural Materials, and Additional Boundary Conditions. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 4219-4232	4.9	28
91	Metamaterial-inspired model for electron waves in bulk semiconductors. <i>Physical Review B</i> , 2012 , 86,	3.3	10
90	Negative refraction and partial focusing with a crossed wire mesh: Physical insights and experimental verification. <i>Applied Physics Letters</i> , 2012 , 101, 021104	3.4	13
89	Macroscopic electromagnetic response of arbitrarily shaped spatially dispersive bodies formed by metallic wires. <i>Physical Review B</i> , 2012 , 86,	3.3	6
88	Effective medium approach to electron waves: Graphene superlattices. <i>Physical Review B</i> , 2012 , 85,	3.3	23

87	Cherenkov emission in a nanowire material. <i>Physical Review B</i> , 2012 , 85,	3.3	56
86	Uniaxial indefinite material formed by helical-shaped wires. <i>New Journal of Physics</i> , 2012 , 14, 063002	2.9	8
85	Achromatic lens based on a nanowire material with anomalous dispersion. <i>Optics Express</i> , 2012 , 20, 13915-22	3.3	10
84	Sampling and squeezing electromagnetic waves through subwavelength ultranarrow regions or openings. <i>Physical Review B</i> , 2012 , 85,	3.3	6
83	Exchange of momentum between moving matter induced by the zero-point fluctuations of the electromagnetic field. <i>Physical Review A</i> , 2012 , 86,	2.6	19
82	Radiation from elementary sources in a uniaxial wire medium. <i>Physical Review B</i> , 2012 , 85,	3.3	25
81	Near-field imaging with a loaded wire medium. <i>Physical Review B</i> , 2012 , 86,	3.3	16
80	Mushroom-Type High-Impedance Surface With Loaded Vias: Homogenization Model and Ultra-Thin Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1503-1506	3.8	17
79	Characterization of negative refraction with multilayered mushroom-type metamaterials at microwaves. <i>Journal of Applied Physics</i> , 2011 , 109, 044901-044901-10	2.5	17
78	Time domain homogenization of metamaterials. <i>Physical Review B</i> , 2011 , 83,	3.3	28
77	Causality relations in the homogenization of metamaterials. <i>Physical Review B</i> , 2011 , 84,	3.3	41
76	Indefinite dielectric response and all-angle negative refraction in a structure with deeply-subwavelength inclusions. <i>Physical Review B</i> , 2011 , 84,	3.3	16
75	Resolving subwavelength objects with a crossed wire mesh superlens operated in backscattering mode. <i>New Journal of Physics</i> , 2011 , 13, 053004	2.9	6
74	Ultraconfined interlaced plasmons. <i>Physical Review Letters</i> , 2011 , 107, 063903	7.4	14
73	Casimir forces at the threshold of the Cherenkov effect. <i>Physical Review A</i> , 2011 , 84,	2.6	8
72	Mimicking Boyer's Casimir repulsion with a nanowire material. <i>Physical Review A</i> , 2011 , 83,	2.6	26
71	Mimicking the Veselago-Pendry lens with broadband matched double-negative metamaterials. <i>Physical Review B</i> , 2011 , 84,	3.3	5
70	Examining the validity of Kramers-Kronig relations for the magnetic permeability. <i>Physical Review B</i> , 2011 , 83,	3.3	18

69	Poynting vector in negative-index metamaterials. <i>Physical Review B</i> , 2011 , 83,	3.3	29
68	Broadband negative refraction at microwaves with a multilayered mushroom-type metamaterial 2010 ,		1
67	Negative refraction by a uniaxial wire medium with suppressed spatial dispersion. <i>Physical Review B</i> , 2010 , 81,	3.3	15
66	Reply to Comment on Poynting vector, heating rate, and stored energy in structured materials: A first-principles derivation <i>Physical Review B</i> , 2010 , 82,	3.3	2
65	Experimental verification of broadband superlensing using a metamaterial with an extreme index of refraction. <i>Physical Review B</i> , 2010 , 81,	3.3	27
64	The auxiliary source method and its application to the reflection problem at an interface with tilted wires 2010 ,		1
63	Casimir interaction between metal-dielectric metamaterial slabs: Attraction at all macroscopic distances. <i>Physical Review B</i> , 2010 , 82,	3.3	23
62	Generalized additional boundary conditions for wire media. <i>New Journal of Physics</i> , 2010 , 12, 113047	2.9	39
61	Comment on "Repulsive Casimir force in chiral metamaterials". <i>Physical Review Letters</i> , 2010 , 105, 189301; author reply 189302	7.4	24
60	Experimental verification of full reconstruction of the near-field with a metamaterial lens. <i>Applied Physics Letters</i> , 2010 , 97, 144102	3.4	13
59	Ultralong-range Casimir-Lifshitz forces mediated by nanowire materials. <i>Physical Review A</i> , 2010 , 82,	2.6	19
58	Physical restrictions on the Casimir interaction of metal-dielectric metamaterials: An effective-medium approach. <i>Physical Review A</i> , 2010 , 82,	2.6	16
57	Focusing of electromagnetic radiation by a flat slab of a crossed wire mesh metamaterial. <i>Metamaterials</i> , 2010 , 4, 112-118		5
56	Broadband negative refraction with a crossed wire mesh. <i>Physical Review B</i> , 2009 , 79,	3.3	30
55	Transporting an Image through a Subwavelength Hole. <i>Physical Review Letters</i> , 2009 , 102, 103902	7.4	51
54	Artificial plasma formed by connected metallic wires at infrared frequencies. <i>Physical Review B</i> , 2009 , 79,	3.3	32
53	The importance of Fabry-Pérot resonance and the role of shielding in subwavelength imaging performance of multiwire endoscopes. <i>Applied Physics Letters</i> , 2009 , 94, 031104	3.4	15
52	Anomalous refraction of light colors by a metamaterial prism. <i>Physical Review Letters</i> , 2009 , 102, 193903	7.4	24

51	Additional boundary conditions for nonconnected wire media. <i>New Journal of Physics</i> , 2009 , 11, 113016	2.9	31
50	Transport of an arbitrary near-field component with an array of tilted wires. <i>New Journal of Physics</i> , 2009 , 11, 083023	2.9	20
49	Characterization of Surface-Wave and Leaky-Wave Propagation on Wire-Medium Slabs and Mushroom Structures Based on Local and Nonlocal Homogenization Models. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2700-2714	4.1	52
48	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2692-2699	4.1	58
47	Nonlocal homogenization of an array of cubic particles made of resonant rings. <i>Metamaterials</i> , 2009 , 3, 115-128		19
46	Experimental verification of plasmonic cloaking at microwave frequencies with metamaterials. <i>Physical Review Letters</i> , 2009 , 103, 153901	7.4	258
45	Poynting vector, heating rate, and stored energy in structured materials: A first-principles derivation. <i>Physical Review B</i> , 2009 , 80,	3.3	29
44	Reflectionless sharp bends and corners in waveguides using epsilon-near-zero effects. <i>Journal of Applied Physics</i> , 2009 , 105, 044905	2.5	99
43	Nonlocal permittivity from a quasistatic model for a class of wire media. <i>Physical Review B</i> , 2009 , 80,	3.3	82
42	Finite-difference frequency-domain method for the extraction of effective parameters of metamaterials. <i>Physical Review B</i> , 2009 , 80,	3.3	24
41	Transmission-line analysis of epsilon -near-zero-filled narrow channels. <i>Physical Review E</i> , 2008 , 78, 016604	4.1	106
40	Experimental verification of epsilon-near-zero metamaterial coupling and energy squeezing using a microwave waveguide. <i>Physical Review Letters</i> , 2008 , 100, 033903	7.4	513
39	Electromagnetic Characterization of Textured Surfaces Formed by Metallic Pins. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 405-415	4.9	127
38	Infrared and optical invisibility cloak with plasmonic implants based on scattering cancellation. <i>Physical Review B</i> , 2008 , 78,	3.3	53
37	Superlens made of a metamaterial with extreme effective parameters. <i>Physical Review B</i> , 2008 , 78,	3.3	22
36	Ultimate limit of resolution of subwavelength imaging devices formed by metallic rods. <i>Optics Letters</i> , 2008 , 33, 1726-8	3	71
35	Evaluation of a Double-Shell Integrated Scanning Lens Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 781-784	3.8	26
34	Transmission of images with subwavelength resolution to distances of several wavelengths in the microwave range. <i>Physical Review B</i> , 2008 , 77,	3.3	84

33	Design of Linear-to-Circular Polarization Transformers Made of Long Densely Packed Metallic Helices. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 390-401	4.9	55
32	Cloaking mechanism with antiphase plasmonic satellites. <i>Physical Review B</i> , 2008 , 78,	3.3	30
31	ILASH - Software tool for the design of integrated lens antennas 2008 ,		15
30	Nanoinsulators and nanoconnectors for optical nanocircuits. <i>Journal of Applied Physics</i> , 2008 , 103, 064305	4.5	30
29	Additional boundary condition for a wire medium connected to a metallic surface. <i>New Journal of Physics</i> , 2008 , 10, 053011	2.9	53
28	Nonresonant structured material with extreme effective parameters. <i>Physical Review B</i> , 2008 , 78,	3.3	30
27	Unified homogenization theory for magnetoinductive and electromagnetic waves in split-ring metamaterials. <i>Physical Review A</i> , 2008 , 78,	2.6	57
26	Spatial dispersion in lattices of split ring resonators with permeability near zero. <i>Physical Review B</i> , 2008 , 77,	3.3	30
25	Experimental demonstration of a structured material with extreme effective parameters at microwaves. <i>Applied Physics Letters</i> , 2008 , 93, 174103	3.4	13
24	Squeezing electromagnetic energy through narrow 3-D coaxial channels of arbitrary shape filled with Epsilon-Near-Zero materials 2007 ,		1
23	Transverse-average field approach for the characterization of thin metamaterial slabs. <i>Physical Review E</i> , 2007 , 75, 036613	2.4	24
22	Metamaterials for transparency and total scattering reduction 2007 ,		1
21	Theory of supercoupling, squeezing wave energy, and field confinement in narrow channels and tight bends using μ near-zero metamaterials. <i>Physical Review B</i> , 2007 , 76,	3.3	220
20	Design of matched zero-index metamaterials using nonmagnetic inclusions in epsilon-near-zero media. <i>Physical Review B</i> , 2007 , 75,	3.3	160
19	Image transmission with the subwavelength resolution in microwave, terahertz, and optical frequency bands. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 1009-1022	0.5	10
18	Epsilon-near-zero metamaterials and electromagnetic sources: Tailoring the radiation phase pattern. <i>Physical Review B</i> , 2007 , 75,	3.3	688
17	Subwavelength imaging at infrared frequencies using an array of metallic nanorods. <i>Physical Review B</i> , 2007 , 75,	3.3	121
16	Parallel-plate metamaterials for cloaking structures. <i>Physical Review E</i> , 2007 , 75, 036603	2.4	167

15	Metamaterial homogenization approach with application to the characterization of microstructured composites with negative parameters. <i>Physical Review B</i> , 2007 , 75,	3.3	168
14	Generalized Lorentz-Lorenz formulas for microstructured materials. <i>Physical Review B</i> , 2007 , 76,	3.3	64
13	Nonlocal homogenization model for a periodic array of epsilon-negative rods. <i>Physical Review E</i> , 2006 , 73, 046612	2.4	165
12	Resolution of subwavelength transmission devices formed by a wire medium. <i>Physical Review E</i> , 2006 , 73, 056607	2.4	86
11	Additional boundary condition for the wire medium. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 1766-1780	4.9	101
10	Tunneling of electromagnetic energy through subwavelength channels and bends using epsilon-near-zero materials. <i>Physical Review Letters</i> , 2006 , 97, 157403	7.4	888
9	Computation of the Electromagnetic Modes in Two-Dimensional Photonic Crystals: A Technique to Improve the Convergence Rate of the Plane Wave Method. <i>Electromagnetics</i> , 2006 , 26, 175-187	0.8	2
8	Homogenization of metamaterial surfaces and slabs: the crossed wire mesh canonical problem. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 59-69	4.9	20
7	A new acceleration technique with exponential convergence rate to evaluate periodic Green functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 347-355	4.9	40
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5	A hybrid method for the efficient calculation of the band structure of 3-D metallic crystals. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 889-902	4.1	32
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