

Filippo Capolino

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.

197
papers

4,412
citations

33
h-index

57
g-index

297
ext. papers

5,544
ext. citations

3.5
avg, IF

5.94
L-index

#	Paper	IF	Citations
197	Triple Ladder Lumped Circuit With Sixth Order Modal Exceptional Degeneracy. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-9	3.9	0
196	Exceptional point in a degenerate system made of a gyrator and two unstable resonators. <i>Physical Review A</i> , 2022 , 105,	2.6	1
195	Traveling Wave Tube Eigenmode Solution for Beam-Loaded Slow Wave Structure Based on Particle-in-Cell Simulations. <i>IEEE Transactions on Plasma Science</i> , 2022 , 50, 635-648	1.3	1
194	Experimental demonstration of exceptional points of degeneracy in linear time periodic systems and exceptional sensitivity. <i>Journal of Applied Physics</i> , 2022 , 131, 144502	2.5	0
193	Theory of Vector Beams for Chirality and Magnetism Detection of Subwavelength Particles 2021 , 401-421		
192	Multitransmission Line Model for Slow Wave Structures Interacting with Electron Beams and Multimode Synchronization 2021 , 17-56		
191	Frozen Mode in Three-Way Periodic Microstrip Coupled Waveguide. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 229-232	2.6	6
190	Ultra-Sensitive Radio Frequency Biosensor at an Exceptional Point of Degeneracy Induced by Time Modulation. <i>IEEE Sensors Journal</i> , 2021 , 21, 7250-7259	4	8
189	Exceptional degeneracy in a waveguide periodically loaded with discrete gain and radiation loss elements. <i>Applied Physics Letters</i> , 2021 , 118, 224102	3.4	0
188	Exceptional degeneracies in traveling wave tubes with dispersive slow-wave structure including space-charge effect. <i>Applied Physics Letters</i> , 2021 , 118, 263506	3.4	3
187	High-Power X-Band Relativistic Backward-Wave Oscillator with Exceptional Synchronous Regime Operating at an Exceptional Point. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
186	Distributed Degenerate Band Edge Oscillator. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1821-1824	4.9	6
185	Low Phase Noise Oscillator Design Using Degenerate Band Edge Ladder Architectures. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	1
184	High-Power Backward-Wave Oscillator Using Folded Waveguide With Distributed Power Extraction Operating at an Exceptional Point. <i>IEEE Transactions on Electron Devices</i> , 2021 , 1-8	2.9	2
183	General Conditions to Realize Exceptional Points of Degeneracy in Two Uniform Coupled Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 3342-3354	4.1	4
182	Helicity maximization in a planar array of achiral high-density dielectric nanoparticles. <i>Journal of Applied Physics</i> , 2020 , 127, 093104	2.5	7
181	Simultaneous Perfect Bending and Polarization Rotation of Electromagnetic Wavefront Using Chiral Gradient Metasurfaces. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8

180	Exceptional point of sixth-order degeneracy in a modified coupled-resonator optical waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2319	1.7	3
179	Asymmetric surface wave excitation through metasurface-edge diffraction. <i>Optics Letters</i> , 2020 , 45, 5420-5423		
178	A Cross-Shaped 2-D Periodic Leaky-Wave Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1289-1301	4.9	4
177	Review of Recent Advances in the Leaky-Wave Analysis of 2-D Leaky-Wave Antennas 2020 ,		1
176	Exceptional Points of Degeneracy Directly Induced by Space-Time Modulation of a Single Transmission Line. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1906-1910	3.8	5
175	Exceptional Point of Degeneracy in a Backward-Wave Oscillator with Distributed Power Extraction. <i>Physical Review Applied</i> , 2020 , 14,	4.3	6
174	Helicity maximization below the diffraction limit. <i>Physical Review B</i> , 2020 , 102,	3.3	4
173	Experimental Testing of a 3-D-Printed Metamaterial Slow Wave Structure for High-Power Microwave Generation. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 4356-4364	1.3	10
172	Optimally Chiral Light: Upper Bound of Helicity Density of Structured Light for Chirality Detection of Matter at Nanoscale. <i>ACS Photonics</i> , 2020 , 7, 2682-2691	6.3	8
171	Illusion mechanisms with cylindrical metasurfaces: A general synthesis approach. <i>Physical Review B</i> , 2019 , 100,	3.3	8
170	Two-Scale Structure for Giant Field Enhancement: Combination of Rayleigh Anomaly and Colloidal Plasmonic Resonance. <i>Physical Review Applied</i> , 2019 , 11,	4.3	2
169	Leaky-Wave Analysis of Wideband Planar Fabry-Pérot Cavity Antennas Formed by a Thick PRS. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 5163-5175	4.9	22
168	Radiation Properties of a 2-D Periodic Leaky-Wave Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3560-3573	4.9	10
167	Diffraction by a truncated planar array of dipoles: A Wiener-Hopf approach. <i>Wave Motion</i> , 2019 , 89, 28-42	1.8	7
166	Giant Circular Dichroism at Visible Frequencies Enabled by Plasmonic Ramp-Shaped Nanostructures. <i>ACS Photonics</i> , 2019 , 6, 924-931	6.3	40
165	Hyperbolic Metamaterials at Microwaves With Stacked Inductive Coiled-Wire Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6494-6507	4.9	1
164	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6909-6923	4.9	19
163	Backward-Wave Oscillator with Distributed Power Extraction Based on Exceptional Point of Degeneracy and Gain and Radiation-Loss Balance 2019 ,		3

162	2019,			2
161	Empowering structured light to enhance chirality detection and characterization at nanoscale 2019,			2
160	Optical magnetic field enhancement at nanoscale: a nanoantenna comparative study. <i>Optics Letters</i> , 2019 , 44, 4957-4960	3		6
159	New oscillator concept based on band edge degeneracy in lumped double-ladder circuits. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 950-957	1.1		10
158	Applications and Potentials of Reciprocal Bianisotropic Metasurfaces 2019,			1
157	Exceptional Points of Degeneracy Induced by Linear Time-Periodic Variation. <i>Physical Review Applied</i> , 2019 , 11,	4.3		21
156	Exceptional Points of Degeneracy and Branch Points for Coupled Transmission Lines Linear-Algebra and Bifurcation Theory Perspectives. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1025-1034	4.9		14
155	Revisiting Orbital Angular Momentum Beams: Fundamentals, Reflectarray Generation, and Novel Antenna Applications. <i>IEEE Antennas and Propagation Magazine</i> , 2018 , 60, 68-81	1.7		34
154	. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 43-56	1.3		10
153	Longitudinal Monitoring of Biofilm Formation via Robust Surface-Enhanced Raman Scattering Quantification of <i>Pseudomonas aeruginosa</i> -Produced Metabolites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12364-12373	9.5		36
152	Theory of Double Ladder Lumped Circuits With Degenerate Band Edge. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 3-13	3.9		14
151	Sharply Focused Azimuthally Polarized Beams with Magnetic Dominance: Near-Field Characterization at Nanoscale by Photoinduced Force Microscopy. <i>ACS Photonics</i> , 2018 , 5, 390-397	6.3		20
150	Electron-Beam-Driven Devices With Synchronous Multiple Degenerate Eigenmodes. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3126-3138	1.3		13
149	Degenerate band edge laser. <i>Physical Review B</i> , 2018 , 97,	3.3		24
148	Analyze and Design of Thin Planar High Impedance Surface as an Antenna 2018,			3
147	Exclusive Magnetic Excitation Enabled by Structured Light Illumination in a Nanoscale Mie Resonator. <i>ACS Nano</i> , 2018 , 12, 12159-12168	16.7		18
146	Unscrambling Structured Chirality with Structured Light at the Nanoscale Using Photoinduced Force. <i>ACS Photonics</i> , 2018 , 5, 4360-4370	6.3		13
145	. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3030-3039	4		14

144	Cylindrical to rectangular coordinate transformation for planar phase front synthesis. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 814-819	1.6	
143	In pursuit of photo-induced magnetic and chiral microscopy. <i>EPJ Applied Metamaterials</i> , 2018 , 5, 7	0.8	5
142	Driving Chemical Reactions in Plasmonic Nanogaps with Electrohydrodynamic Flow. <i>ACS Nano</i> , 2017 , 11, 11317-11329	16.7	18
141	Exceptional points of degeneracy and PT symmetry in photonic coupled chains of scatterers. <i>Physical Review B</i> , 2017 , 95,	3.3	16
140	Magnetic Nanoantennas Made of Plasmonic Nanoclusters for Photoinduced Magnetic Field Enhancement. <i>Physical Review Applied</i> , 2017 , 8,	4.3	20
139	Giant field enhancement in longitudinal epsilon-near-zero films. <i>Physical Review B</i> , 2017 , 95,	3.3	18
138	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 4037-4045	4.1	20
137	Theory of coupled resonator optical waveguides exhibiting high-order exceptional points of degeneracy. <i>Physical Review B</i> , 2017 , 96,	3.3	36
136	Theory of Optical Leaky-Wave Antenna Integrated in a Ring Resonator for Radiation Control. <i>Journal of Lightwave Technology</i> , 2017 , 35, 10-18	4	6
135	Theory of Exceptional Points of Degeneracy in Uniform Coupled Waveguides and Balance of Gain and Loss. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 5289-5302	4.9	25
134	Third order modal degeneracy in waveguides: Features and application in amplifiers 2017 ,		1
133	Enantiospecific Detection of Chiral Nanosamples Using Photoinduced Force. <i>Physical Review Applied</i> , 2017 , 8,	4.3	18
132	Functional metasurfaces: Do we need normal polarizations? 2017 ,		2
131	Reflective metasurface lens with an elongated needle-shaped focus. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 374	1.7	10
130	Templated electrokinetic directed chemical assembly for the fabrication of close-packed plasmonic metamolecules 2017 ,		1
129	1-D Periodic Green's Function for Leaky and Complex Waves Using the Ewald Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 4703-4712	4.9	2
128	Giant gain enhancement in photonic crystals with a degenerate band edge. <i>Physical Review B</i> , 2016 , 93,	3.3	38
127	Photoinduced Magnetic Nanoprobe Excited by an Azimuthally Polarized Vector Beam. <i>ACS Photonics</i> , 2016 , 3, 2049-2058	6.3	30

126	Theory and New Amplification Regime in Periodic Multimodal Slow Wave Structures With Degeneracy Interacting With an Electron Beam. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 594-611	1.3	29
125	Low Starting Electron Beam Current in Degenerate Band Edge Oscillators. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 918-929	1.3	28
124	Concept for Pulse Compression Device Using Structured Spatial Energy Distribution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 1-14	4.1	12
123	Electromagnetic coupling and array packing induce exchange of dominance on complex modes in 3D periodic arrays of spheres with large permittivity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 261	1.7	6
122	Artificial Magnetism via Nanoantennas under Azimuthally Polarized Vector Beam Illumination 2016 ,		4
121	Electric field enhancement with plasmonic colloidal nanoantennas excited by a silicon nitride waveguide. <i>Optics Express</i> , 2016 , 24, 28337-28352	3.3	17
120	Focused azimuthally polarized vector beam and spatial magnetic resolution below the diffraction limit. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 2265	1.7	22
119	2016 ,		2
118	Giant amplification in degenerate band edge slow-wave structures interacting with an electron beam. <i>Physics of Plasmas</i> , 2016 , 23, 033112	2.1	28
117	Degenerate band edge electron beam oscillators: Low starting current 2016 ,		1
116	Plasmon optical trapping using silicon nitride trench waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 1182	1.7	6
115	Design Formulas for Planar Fabry-Pérot Cavity Antennas Formed by Thick Partially Reflective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 5487-5491	4.9	12
114	Experimental Demonstration of Directive Si ₃ N ₄ Optical Leaky Wave Antennas With Semiconductor Perturbations. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4864-4871	4	13
113	Experimental demonstration of directive Si ₃ N ₄ optical leaky wave antennas with semiconductor perturbations at near infrared frequencies 2015 ,		1
112	A 60 GHz simple-to-fabricate single-layer planar Fabry-Pérot cavity antenna. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 313-318	1.6	15
111	Sub-micron silicon nitride waveguide fabrication using conventional optical lithography. <i>Optics Express</i> , 2015 , 23, 6780-6	3.3	29
110	Cooperative plasmon-mediated effects and loss compensation by gain dyes near a metal nanoparticle. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 188	1.7	14
109	Thin anisotropic metasurfaces for simultaneous light focusing and polarization manipulation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 318	1.7	46

108	Large magnetic to electric field contrast in azimuthally polarized vortex beams generated by a metasurface (Presentation Recording) 2015 ,		4
107	Surface enhanced Raman scattering for detection of <i>Pseudomonas aeruginosa</i> sensing compounds 2015 ,		2
106	Demonstration of a Degenerate Band Edge in Periodically-Loaded Circular Waveguides. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 700-702	2.6	25
105	Photoinduced magnetic force between nanostructures. <i>Physical Review B</i> , 2015 , 92,	3.3	15
104	Generalized Lorentz-Lorenz homogenization formulas for binary lattice metamaterials. <i>Physical Review B</i> , 2015 , 91,	3.3	6
103	Leaky-wave explanation of gain-bandwidth-enhanced Fabry-Pérot Cavity antennas formed by a thick multilayer partially-reflective surface 2015 ,		6
102	Vortex beams with strong longitudinally polarized magnetic field and their generation by using metasurfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 345	1.7	40
101	Gain Enhancement of a V-Band Antenna Using a Fabry-Pérot Cavity With a Self-Sustained All-Metal Cap With FSS. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 909-921	4.9	57
100	Optical Leaky Wave Antenna Experiment Demonstration and Electronic Modulation Investigation 2015 ,		2
99	Artificial magnetism at terahertz frequencies from three-dimensional lattices of TiO ₂ microspheres accounting for spatial dispersion and magnetoelectric coupling. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1078	1.7	16
98	Theory of a Directive Optical Leaky Wave Antenna Integrated into a Resonator and Enhancement of Radiation Control. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1741-1749	4	15
97	Critical excitation-rate enhancement of a dipolar scatterer close to a plasmonic nanosphere and importance of multipolar self-coupling. <i>Physical Review B</i> , 2014 , 90,	3.3	5
96	Radiative emission enhancement using nano-antennas made of hyperbolic metamaterial resonators. <i>Applied Physics Letters</i> , 2014 , 105, 123101	3.4	24
95	A 94-GHz Extremely Thin Metasurface-Based BiCMOS On-Chip Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 4439-4451	4.9	26
94	Improved Bandwidth Formulas for Fabry-Pérot Cavity Antennas Formed by Using a Thin Partially-Reflective Surface. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 2361-2367	4.9	11
93	Enhanced Magnetic and Electric Fields via Fano Resonances in Metasurfaces of Circular Clusters of Plasmonic Nanoparticles. <i>ACS Photonics</i> , 2014 , 1, 254-260	6.3	65
92	Millimeter-wave massive MIMO: the next wireless revolution? 2014 , 52, 56-62		458
91	Design and Analysis of a W-band 9-Element Imaging Array Receiver Using Spatial-Overlapping Super-Pixels in Silicon. <i>IEEE Journal of Solid-State Circuits</i> , 2014 , 49, 1317-1332	5.5	29

90	Q-BAND SINGLE-LAYER PLANAR FABRY-PEROT CAVITY ANTENNA WITH SINGLE INTEGRATED-FEED. <i>Progress in Electromagnetics Research C</i> , 2014 , 52, 135-144	0.9	15
89	Gain-bandwidth enhancement of 60GHz single-layer Fabry-Pérot cavity antennas using sparse-array 2014 ,		4
88	Sub-micron silicon nitride waveguide fabrication using conventional optical lithography 2014 ,		1
87	Fano collective resonance as complex mode in a two-dimensional planar metasurface of plasmonic nanoparticles. <i>Applied Physics Letters</i> , 2014 , 105, 191107	3.4	17
86	Array of dipoles near a hyperbolic metamaterial: Evanescent-to-propagating Floquet wave transformation. <i>Physical Review B</i> , 2014 , 89,	3.3	7
85	Phase-gradient gap-plasmon metasurface based blazed grating for real time dispersive imaging. <i>Applied Physics Letters</i> , 2014 , 104, 161106	3.4	41
84	Second-harmonic double-resonance cones in dispersive hyperbolic metamaterials. <i>Physical Review B</i> , 2014 , 89,	3.3	35
83	Second harmonic generation from metamaterials strongly coupled to intersubband transitions in quantum wells. <i>Applied Physics Letters</i> , 2014 , 104, 131104	3.4	48
82	Electrodynamic modeling of strong coupling between a metasurface and intersubband transitions in quantum wells. <i>Physical Review B</i> , 2014 , 89,	3.3	21
81	Extension of the Pierce Model to Multiple Transmission Lines Interacting With an Electron Beam. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 899-910	1.3	24
80	Magnetoinductive Waves and Complex Modes in Two-Dimensional Periodic Arrays of Split Ring Resonators. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3554-3563	4.9	12
79	Effective medium representation and complex modes in 3D periodic metamaterials made of cubic resonators with large permittivity at mid-infrared frequencies. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013 , 11, 423-435	2.6	14
78	Graphene-dielectric composite metamaterials: evolution from elliptic to hyperbolic wavevector dispersion and the transverse epsilon-near-zero condition. <i>Journal of Nanophotonics</i> , 2013 , 7, 073089	1.1	80
77	Strong coupling in the sub-wavelength limit using metamaterial nanocavities. <i>Nature Communications</i> , 2013 , 4, 2882	17.4	74
76	Time-Domain UTD Vertex Diffraction Coefficient for the Scattering by Perfectly Conducting Faceted Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 4204-4213	4.9	4
75	Wideband Planar Transmission Line Hyperbolic Metamaterial for Subwavelength Focusing and Resolution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 4110-4117	4.1	16
74	Equivalent Transmission Line Model With a Lumped X-Circuit for a Metalayer Made of Pairs of Planar Conductors. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 852-861	4.9	19
73	Electric field enhancement in e-near-zero slabs under TM-polarized oblique incidence. <i>Physical Review B</i> , 2013 , 87,	3.3	74

72	A 93-to-113GHz BiCMOS 9-element imaging array receiver utilizing spatial-overlapping pixels with wideband phase and amplitude control 2013 ,		6
71	Low-damping epsilon-near-zero slabs: Nonlinear and nonlocal optical properties. <i>Physical Review B</i> , 2013 , 87,	3.3	59
70	Directing cluster formation of Au nanoparticles from colloidal solution. <i>Langmuir</i> , 2013 , 29, 4242-51	4	21
69	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 706-709	3.8	18
68	Fano resonances in metasurfaces made of linear trimers of plasmonic nanoparticles. <i>Optics Letters</i> , 2013 , 38, 5216-9	3	15
67	Effect of irregularities of nanosatellites position and size on collective electric and magnetic plasmonic resonances in spherical nanoclusters. <i>Optics Express</i> , 2013 , 21, 7667-85	3.3	13
66	Comparison of electric field enhancements: linear and triangular oligomers versus hexagonal arrays of plasmonic nanospheres. <i>Optics Express</i> , 2013 , 21, 7957-73	3.3	21
65	Graphene-based tunable hyperbolic metamaterials and enhanced near-field absorption. <i>Optics Express</i> , 2013 , 21, 7614-32	3.3	217
64	A highly-efficient single-feed planar Fabry-Pérot cavity antenna for 60 GHz technology 2012 ,		5
63	Hyperbolic metamaterial as super absorber for scattered fields generated at its surface. <i>Physical Review B</i> , 2012 , 86,	3.3	82
62	Magnetoinductive waves in 2D periodic arrays of split ring resonators 2012 ,		1
61	Ewald method for 3D periodic dyadic Green's functions and complex modes in composite materials made of spherical particles under the dual dipole approximation. <i>Radio Science</i> , 2012 , 47, n/a-n/a	1.4	26
60	Low Profile Fully Planar Folded Dipole Antenna on a High Impedance Surface. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 51-62	4.9	105
59	Composite material made of plasmonic nanoshells with quantum dot cores: loss-compensation and near-zero physical properties. <i>Nanotechnology</i> , 2012 , 23, 235703	3.4	27
58	Designs of fully on-chip antennas in (Bi)CMOS technology 2012 ,		4
57	Gain-assisted harmonic generation in near-zero permittivity metamaterials made of plasmonic nanoshells. <i>New Journal of Physics</i> , 2012 , 14, 103016	2.9	28
56	Non-lithographic SERS substrates: tailoring surface chemistry for Au nanoparticle cluster assembly. <i>Small</i> , 2012 , 8, 2239-49	11	61
55	Complex modes and artificial magnetism in three-dimensional periodic arrays of titanium dioxide microspheres at millimeter waves. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 1697	1.7	11

54	An optical leaky wave antenna with Si perturbations inside a resonator for enhanced optical control of the radiation. <i>Optics Express</i> , 2012 , 20, 21305-17	3.3	24
53	An on-chip W-band bowtie slot antenna in silicon 2012 ,		1
52	Possible feeds of the HIS antenna without dipole on top 2012 ,		1
51	Electromagnetic Metamaterials as Artificial Composite Structures. <i>The Electrical Engineering Handbook</i> , 2012 , 595-682		1
50	Design of a CMOS On-Chip Slot Antenna With Extremely Flat Cavity at 140 GHz. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 827-830	3.8	51
49	Description and characterization of the complex modes in a linear chain of gold nanospheres 2011 ,		2
48	Direct Use of the High Impedance Surface as an Antenna Without Dipole on Top. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1536-1539	3.8	16
47	Characterization of complex plasmonic modes in two-dimensional periodic arrays of metal nanospheres. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 1446	1.7	32
46	Wave dynamics by a plane wave on a half-space metamaterial made of plasmonic nanospheres: a discrete Wiener-Hopf formulation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2174	1.7	13
45	High impedance surface as an antenna without a dipole on top 2011 ,		5
44	Collective electric and magnetic plasmonic resonances in spherical nanoclusters. <i>Optics Express</i> , 2011 , 19, 2754-72	3.3	54
43	Silicon-based optical leaky wave antenna with narrow beam radiation. <i>Optics Express</i> , 2011 , 19, 8735-49	3.3	49
42	Complex bound and leaky modes in chains of plasmonic nanospheres. <i>Optics Express</i> , 2011 , 19, 18345-63	3.3	40
41	Dual polarized near-field focusing plate for near-field optical focusing in two dimensions. <i>Optics Express</i> , 2011 , 19, 24483-98	3.3	2
40	Complex modes and effective refractive index in 3D periodic arrays of plasmonic nanospheres. <i>Optics Express</i> , 2011 , 19, 26027-43	3.3	26
39	Complex modes and near-zero permittivity in 3D arrays of plasmonic nanoshells: loss compensation using gain [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 1077	2.6	83
38	The Fundamental Physics of Directive Beaming at Microwave and Optical Frequencies and the Role of Leaky Waves. <i>Proceedings of the IEEE</i> , 2011 , 99, 1780-1805	14.3	78
37	Effective model and investigation of the near-field enhancement and subwavelength imaging properties of multilayer arrays of plasmonic nanospheres. <i>Physical Review E</i> , 2011 , 84, 016607	2.4	33

36	LINEAR AND PLANAR PERIODIC ARRAYS OF METALLIC NANOSPHERES: FABRICATION, OPTICAL PROPERTIES AND APPLICATIONS 2011 , 141-194		0
35	A dual polarized near-field focusing plate at microwave frequencies providing sub-wavelength focusing in two dimensions 2011 ,		1
34	Characterization of the optical modes in 3D-periodic arrays of metallic nanospheres 2011 ,		3
33	An optical leaky wave antenna with silicon perturbations for electronic control 2011 ,		3
32	Single-feed highly-directive Fabry-Perot Cavity antenna for 60 GHz wireless systems: Design and fabrication 2010 ,		3
31	Highly Polarized, Directive Radiation From a Fabry-Perot Cavity Leaky-Wave Antenna Based on a Metal Strip Grating. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 3873-3883	4.9	31
30	Closed form formulas and tunability of resonances in pairs of gold-dielectric nanoshells 2010 ,		3
29	Design of a single-feed all-metal 63 GHz Fabry-Perot cavity antenna using a TL and a wideband circuit model. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		11
28	Directive emission from defect-free dodecagonal photonic quasicrystals: A leaky wave characterization. <i>Physical Review B</i> , 2009 , 79,	3.3	16
27	Design of a single-feed 60 GHz planar metallic Fabry-Perot cavity antenna with 20 dB gain 2009 ,		5
26	Frequency dependent steering with backward leaky waves via photonic crystal interface layer. <i>Optics Express</i> , 2009 , 17, 9879-90	3.3	8
25	Tightly coupled tripole conductor pairs as constituents for a planar 2D-isotropic negative refractive index metamaterial. <i>Optics Express</i> , 2009 , 17, 15216-27	3.3	7
24	Metamaterials Based on Pairs of Tightly Coupled Scatterers 2009 ,		5
23	Directive Leaky-Wave Radiation From a Dipole Source in a Wire-Medium Slab. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1329-1339	4.9	55
22	Modal Propagation and Excitation on a Wire-Medium Slab. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 1112-1124	4.1	22
21	Aperiodic-Tiling-Based Mushroom-Type High-Impedance Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 54-57	3.8	2
20	Choosing splitting parameters and summation limits in the numerical evaluation of 1-D and 2-D periodic Green's functions using the Ewald method. <i>Radio Science</i> , 2008 , 43, n/a-n/a	1.4	26
19	Leaky Modes on a Grounded Wire-Medium Slab. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		1

18	Simulations and Measurements of Dual-Band 2-D Periodic Leaky Wave Antenna 2007 ,		6
17	Network Oriented Dyadic Time Domain Green's Function for a Sequentially Excited Infinite Planar Array of Dipoles in Free Space. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2228-2238	4.9	2
16	High-gain omnidirectional radiation patterns from a metal strip grating leaky-wave antenna 2007 ,		7
15	EIGER—An open-source frequency-domain electromagnetics code 2007 ,		7
14	The array scanning method (ASM)-FDTD algorithm and its application to the excitation of two-dimensional EBG materials and waveguides 2007 ,		1
13	Comparison of Methods for Calculating the Field Excited by a Dipole Near a 2-D Periodic Material. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1644-1655	4.9	45
12	Elimination of Scan Blindness in Phased Array Antennas Using a Grounded-Dielectric EBG Material. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2007 , 6, 106-109	3.8	22
11	ASMBDTD: A Technique for Calculating the Field of a Finite Source in the Presence of an Infinite Periodic Artificial Material. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 271-273	2.6	17
10	High directivity in low-permittivity metamaterial slabs: Ray-optic vs. leaky-wave models. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 2542-2548	1.2	19
9	Bandwidth analysis of highly-directive planar radiators based on partially-reflecting surfaces 2006 ,		7
8	. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 1979-1990	4.9	174
7	Localized modes in photonic quasicrystals with Penrose-type lattice. <i>Optics Express</i> , 2006 , 14, 10021-7	3.3	45
6	Floquet wave-based analysis of transient scattering from doubly periodic, discretely planar, perfectly conducting structures. <i>Radio Science</i> , 2005 , 40, n/a-n/a	1.4	9
5	A Combined Floquet- Wave FDTD Algorithm for the Modeling of Transient Radiation from Infinite Periodic Structures. <i>Springer Proceedings in Physics</i> , 2004 , 249-257	0.2	3
4	Short-pulse radiation by a sequentially excited semi-infinite periodic planar array of dipoles. <i>Radio Science</i> , 2003 , 38, n/a-n/a	1.4	7
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