

Lucio Vegni

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.

93 papers	2,158 citations	22 h-index	44 g-index
107 ext. papers	2,528 ext. citations	2 avg, IF	5.1 L-index

#	Paper	IF	Citations
93	Electromagnetic Nanoparticles for Sensing and Medical Diagnostic Applications. <i>Materials</i> , 2018 , 11,	3.5	78
92	Near-zero-index wires. <i>Optics Express</i> , 2017 , 25, 23699-23708	3.3	61
91	Metamaterial-based wideband electromagnetic wave absorber. <i>Optics Express</i> , 2016 , 24, 5763-72	3.3	73
90	Optical Properties of Modified Nanorod Particles for Biomedical Sensing. <i>IEEE Transactions on Magnetism</i> , 2014 , 50, 169-172	2	19
89	Surface plasmon resonance of nanoshell particles with PMMA-graphene core. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2014 , 33, 2016-2029	0.7	17
88	A two-step model to optimise transcutaneous electrical stimulation of the human upper arm. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2014 , 33, 1329-1345	0.7	6
87	Nanoparticle device for biomedical and optoelectronics applications. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013 , 32, 1596-1608	0.7	16
86	Electromagnetic modeling of ellipsoidal nanoparticles for sensing applications. <i>Optical Engineering</i> , 2013 , 52, 051205	1.1	16
85	Experimental verification of metamaterial loaded small patch antennas. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013 , 32, 1834-1844	0.7	5
84	Characteristic impedance of a microstrip line with a dielectric overlay. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013 , 32, 1855-1867	0.7	13
83	Dielectric-free multi-band frequency selective surface for antenna applications. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013 , 32, 1868-1875	0.7	14
82	Achieving PMC boundary conditions through metamaterials. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013 , 32, 1876-1890	0.7	3
81	Modified Bow-Tie Nanoparticles Operating in the Visible and Near Infrared Frequency Regime. <i>Advances in Nanoparticles</i> , 2013 , 02, 21-27	1.4	11
80	Conical Nanoparticles for Blood Disease Detection. <i>Advances in Nanoparticles</i> , 2013 , 02, 259-265	1.4	13
79	Possible implementation of epsilon-near-zero metamaterials working at optical frequencies. <i>Optics Communications</i> , 2012 , 285, 3412-3418	2	43
78	Extracting power from sub-wavelength apertures by using electrically small resonators: Phenomenology, modeling, and applications 2012 ,		2
77	. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 3583-3593	4.9	13

76	Design of a Waveguide Diplexer Based on Connected Bi-Omega Particles. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 126-128	2.6	18
75	Sensor design for cancer tissue diagnostics 2012 ,		2
74	Overcoming Mutual Blockage Between Neighboring Dipole Antennas Using a Low-Profile Patterned Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1414-1417	3.8	93
73	Design of a waveguide power splitter based on the employment of bi-omega resonators. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 2091-2095	1.2	5
72	Metamaterial-inspired antennas for telecommunication applications 2012 ,		2
71	Metamaterial-based sensor for hemoglobin measurements 2012 ,		1
70	Nanoparticle Electromagnetic Properties for Sensing Applications. <i>Advances in Nanoparticles</i> , 2012 , 01, 9-14	1.4	10
69	Employment of metamaterial cloaks to enhance the resolution of near-field scanning optical microscopy systems based on aperture tips. <i>Metamaterials</i> , 2011 , 5, 119-124		11
68	Cloaking apertureless near-field scanning optical microscopy tips. <i>Optics Letters</i> , 2011 , 36, 211-3	3	35
67	Metamaterial biosensor for cancer detection 2011 ,		17
66	METAMATERIAL-BASED SENSOR DESIGN WORKING IN INFRARED FREQUENCY RANGE. <i>Progress in Electromagnetics Research B</i> , 2011 , 34, 205-223	0.7	18
65	Metamaterial resonator arrays for organic and inorganic compound sensing 2011 ,		6
64	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2011 , 53, 63-72	2	62
63	FSS-based approach for the power transmission enhancement through electrically small apertures. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 927-931	2.6	3
62	New metamaterial-inspired antenna concepts based on enhanced microwave transmission through sub-wavelength apertures 2011 ,		3
61	Achieving Power Transmission Enhancement by Using Nano-Rings Made of Silver Spheres. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1595-1597	2.2	8
60	Experimental verification of metamaterial based subwavelength microwave absorbers. <i>Journal of Applied Physics</i> , 2010 , 108, 083113	2.5	58
59	Reduction of optical forces exerted on nanoparticles covered by scattering cancellation based plasmonic cloaks. <i>Physical Review B</i> , 2010 , 82,	3.3	13

58	Multi-functional dipole antennas based on artificial magnetic metamaterials. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 1026	1.6	16
57	Scattering cancellation by metamaterial cylindrical multilayers. <i>Journal of the European Optical Society-Rapid Publications</i> , 2009 , 4,	2.5	13
56	Enhanced transmission through a subwavelength aperture using metamaterials. <i>Applied Physics Letters</i> , 2009 , 95, 052103	3.4	28
55	A genetic algorithm based procedure to retrieve effective parameters of planar metamaterial samples 2009 ,		1
54	Symmetrical Coupled Microstrip Lines With Epsilon Negative Metamaterial Loading. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1182-1185	2	7
53	Plasmonic and non-plasmonic layered structures for cloaking applications at visible frequencies. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2713-2717	1.2	2
52	Design of a meta-screen for near-zone field focalization at optical frequencies. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2718-2721	1.2	5
51	Optimization and tunability of deep subwavelength resonators for metamaterial applications: complete enhanced transmission through a subwavelength aperture. <i>Optics Express</i> , 2009 , 17, 5933-43	3.3	31
50	Split-ring-resonator-coupled enhanced transmission through a single subwavelength aperture. <i>Physical Review Letters</i> , 2009 , 102, 013904	7.4	91
49	Enhanced transmission through a sub-wavelength aperture: resonant approaches employing metamaterials. <i>Journal of Optics</i> , 2009 , 11, 114029		20
48	Design of Metamaterial-Based Resonant Microwave Absorbers with Reduced Thickness and Absence of a Metallic Backing. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 165-174	0.2	5
47	Efficient Modeling of the Crosstalk Between Two Coupled Microstrip Lines Over Nonconventional Materials Using an Hybrid Technique. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1482-1485	2	7
46	Electromagnetic cloaking devices for TE and TM polarizations. <i>New Journal of Physics</i> , 2008 , 10, 115035	2.9	48
45	Miniaturization and Characterization of Metamaterial Resonant Particles 2008 ,		3
44	. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1640-1647	4.9	141
43	BEM analysis of electromagnetic components filled with unconventional materials. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2008 , 27, 1273-1285	0.7	
42	Equivalent-Circuit Models for the Design of Metamaterials Based on Artificial Magnetic Inclusions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 2865-2873	4.1	174
41	Analysis of $\text{L}\Pi$ transmission line metamaterials with coupled inductances. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 94-97	1.2	8

40	Exploring the possibility of enhancing the bandwidth of negative metamaterials by employing tunable varactors. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 55-59	1.2	
39	Dynamic LOS/NLOS Statistical Discrimination of Wireless Mobile Channels. <i>IEEE Vehicular Technology Conference</i> , 2007 ,	0.1	35
38	. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 13-25	4.9	160
37	. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1698-1708	4.9	51
36	. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 882-891	4.9	32
35	. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2258-2267	4.9	225
34	Miniaturized negative permeability materials. <i>Applied Physics Letters</i> , 2007 , 91, 071121	3.4	41
33	An SRR based microwave absorber. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 2171-2175	1.2	82
32	Rome 2006: Third Workshop on "Metamaterials and Special Materials for Electromagnetic Applications and TLC". <i>IEEE Antennas and Propagation Magazine</i> , 2006 , 48, 130-132	1.7	5
31	Miniaturized circular patch antenna with metamaterial loading 2006 ,		3
30	Polygonal Patch Antennas with Reactive Impedance Surfaces. <i>Journal of Electromagnetic Waves and Applications</i> , 2006 , 20, 169-182	1.3	6
29	Electromagnetic wave propagation in rectangular waveguides filled with Omega-medium. <i>Journal of Modern Optics</i> , 2005 , 52, 1293-1308	1.1	
28	VCO active integrated antenna with reactive impedance surfaces. <i>Microwave and Optical Technology Letters</i> , 2005 , 47, 82-86	1.2	
27	ANOMALOUS PROPERTIES OF SCATTERING FROM CAVITIES PARTIALLY LOADED WITH DOUBLE-NEGATIVE OR SINGLE-NEGATIVE METAMATERIALS. <i>Progress in Electromagnetics Research</i> , 2005 , 51, 49-63	3.8	19
26	Asymptotic Evaluation of the Mom Excitation Vector for Probe-fed Microstrip Antennas. <i>Journal of Electromagnetic Waves and Applications</i> , 2005 , 19, 1639-1654	1.3	3
25	Efficient numerical evaluation of superconducting microstrip structures with bianisotropic layers. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2004 , 19, 15-18	0.4	5
24	ELECTROMAGNETIC FIELD SOLUTION IN CONFORMAL STRUCTURES: THEORETICAL AND NUMERICAL ANALYSIS. <i>Progress in Electromagnetics Research</i> , 2004 , 47, 1-25	3.8	2
23	DESIGN OF BROAD-BAND POLYGONAL PATCH ANTENNAS FOR MOBILE COMMUNICATIONS. <i>Journal of Electromagnetic Waves and Applications</i> , 2004 , 18, 61-72	1.3	3

22	. <i>IEEE Transactions on Vehicular Technology</i> , 2004 , 53, 1434-1440	6.8	11
21	SPECTRAL DYADIC GREEN'S FUNCTION OF INTEGRATED STRUCTURES WITH HIGH IMPEDANCE GROUND PLANES. <i>Journal of Electromagnetic Waves and Applications</i> , 2003 , 17, 1461-1484	1.3	2
20	On EBG Structures for Cellular Phone Applications. <i>AEU - International Journal of Electronics and Communications</i> , 2003 , 57, 403-408	2.8	5
19	Radiating features of capacitive and inductive impedance surfaces. <i>Microwave and Optical Technology Letters</i> , 2003 , 39, 117-121	1.2	1
18	BROAD-BAND TUNING OF AN AIA AMPLIFIER USING 1-D PBG TRANSMISSION LINES. <i>Journal of Electromagnetic Waves and Applications</i> , 2003 , 17, 571-584	1.3	4
17	Fast ray-tracing technique for electromagnetic field prediction in mobile communications. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1238-1241	2	14
16	Synthesis of patch antennas loaded by inhomogeneous substrates via a combined spectral domain: Genetic algorithm approach. <i>Microwave and Optical Technology Letters</i> , 2003 , 39, 464-468	1.2	2
15	U-patch antenna loaded by complex substrates for multifrequency operation. <i>Microwave and Optical Technology Letters</i> , 2002 , 32, 3-5	1.2	3
14	Design of chiral planar integrated antennas with cover via the method of lines. <i>Microwave and Optical Technology Letters</i> , 2002 , 32, 143-145	1.2	1
13	Propagation characteristics of a plane wave in an unbounded nonlocal omega medium. <i>Microwave and Optical Technology Letters</i> , 2002 , 32, 183-186	1.2	
12	Numerical analysis of uniform rectangular waveguides filled by inhomogeneous dielectrics. <i>Microwave and Optical Technology Letters</i> , 2002 , 34, 313-316	1.2	1
11	Multi-frequency patch antenna design via the method of moment and genetic algorithm. <i>Microwave and Optical Technology Letters</i> , 2002 , 35, 184-186	1.2	2
10	A new efficient method of analysis for inhomogeneous media shields and filters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2001 , 43, 394-399	2	30
9	Tapered stripline embedded in inhomogeneous media as microwave matching line. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001 , 49, 970-978	4.1	3
8	Analysis of cavity backed rectangular patch antennas with inhomogeneous chiral substrates via a FEM-BEM formulation. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3260-3263	2	4
7	A novel design method for tapered strip lines as microwave filters. <i>Microwave and Optical Technology Letters</i> , 2000 , 24, 67-71	1.2	2
6	Mutual coupling between two circular patch antennas integrated in an inhomogeneous grounded slab. <i>Microwave and Optical Technology Letters</i> , 2000 , 25, 294-297	1.2	1
5	Very fast design formulas for microwave nonhomogeneous media filters. <i>Microwave and Optical Technology Letters</i> , 1999 , 22, 218-221	1.2	22

4	Polarization properties for the electromagnetic field in an unbounded n-type semiconductor medium. <i>Microwave and Optical Technology Letters</i> , 1998 , 17, 332-335	1.2	
3	Scattering and radiation analysis of cavity-backed microstrip patch antennae with anisotropic slabs via a variational formulation. <i>Journal of Modern Optics</i> , 1997 , 44, 1651-1660	1.1	1
2	Efficient moment-method analysis of a magnetic dipole. <i>Microwave and Optical Technology Letters</i> , 1996 , 13, 335-339	1.2	1
1	Effects of chirality admittance on the propagating modes in a parallel-plate waveguide partially filled with a chiral slab. <i>Microwave and Optical Technology Letters</i> , 1993 , 6, 806-809	1.2	6