Carlos Garca-Meca

List of Publications by Citations

44 papers	861 citations	15 h-index	28 g-index
53 ext. papers	977 ext. citations	4 avg, IF	3.97 L-index

#	Paper	IF	Citations
44	Low-loss multilayered metamaterial exhibiting a negative index of refraction at visible wavelengths. *Physical Review Letters*, **2011**, 106, 067402	7.4	136
43	Role of surface plasmon polaritons on optical transmission through double layer metallic hole arrays. *Physical Review B*, **2009**, 79,	3.3	116
42	Double-negative polarization-independent fishnet metamaterial in the visible spectrum. *Optics Letters*, **2009**, 34, 1603-5	3	71
41	On-chip wireless silicon photonics: from reconfigurable interconnects to lab-on-chip devices. *Light: Science and Applications*, **2017**, 6, e17053	16.7	52
40	Analysis of Hybrid Dielectric Plasmonic Waveguides. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 1496-1501	3.8	52
39	Magnetic hot spots in closely spaced thick gold nanorings. *Nano Letters*, **2013**, 13, 2654-61	11.5	44
38	Squeezing and expanding light without reflections via transformation optics. *Optics Express*, **2011**, 19, 3562-75	3.3	44
37	Engineering antenna radiation patterns via quasi-conformal mappings. *Optics Express*, **2011**, 19, 23743-50	3.3	37
36	Analogue transformations in physics and their application to acoustics. *Scientific Reports*, **2013**, 3, 2009	4.9	33
35	Negative refractive index metamaterials aided by extraordinary optical transmission. *Optics Express* , **2009**, 17, 6026-31	3.3	26
34	Low-loss single-layer metamaterial with negative index of refraction at visible wavelengths. *Optics Express*, **2007**, 15, 9320-5	3.3	20
33	Terahertz Metamaterials on Flexible Polypropylene Substrate. *Plasmonics*, **2014**, 9, 1143-1147	2.4	18
32	Supersymmetric Transformations in Optical Fibers. *Physical Review Applied*, **2018**, 9,	4.3	17
31	Birefringence effects in multi-core fiber: coupled local-mode theory. *Optics Express*, **2016**, 24, 21415-34	3.3	17
30	Metamaterials for optical security. *Applied Physics Letters*, **2009**, 94, 251106	3.4	15
29	Space-time transformation acoustics. *Wave Motion*, **2014**, 51, 785-797	1.8	13
28	Coaxial plasmonic waveguide array as a negative-index metamaterial. *Optics Letters*, **2009**, 34, 3325-7	3	13

27	Modeling high-order plasmon resonances of a U-shaped nanowire used to build a negative-index metamaterial. *Physical Review B*, **2009**, 79,	3.3	11
26	Multiple extraordinary optical transmission peaks from evanescent coupling in perforated metal plates surrounded by dielectrics. *Optics Express*, **2010**, 18, 7893-8	3.3	10
25	Supersymmetry in the time domain and its applications in optics. *Nature Communications*, **2020**, 11, 813	17.4	10
24	Analogue transformation acoustics and the compression of spacetime. *Photonics and Nanostructures - Fundamentals and Applications*, **2014**, 12, 312-318	2.6	9
23	All-Silicon On-Chip Optical Nanoantennas as Efficient Interfaces for Plasmonic Devices. *ACS Photonics*, **2019**, 6, 1094-1099	6.3	8
22	Midinfrared filters based on extraordinary optical transmission through subwavelength structured gold films. *Journal of Applied Physics*, **2009**, 106, 124313	2.5	8
21	Partial transmutation of singularities in optical instruments. *Journal of Optics (United Kingdom)*, **2011**, 13, 075103	1.7	8
20	Diffusive-light invisibility cloak for transient illumination. *Physical Review A*, **2016**, 94,	2.6	8
19	Full three-dimensional isotropic transformation media. *New Journal of Physics*, **2014**, 16, 023030	2.9	7
18	The variational principle in transformation optics engineering and some applications. *Mathematical and Computer Modelling*, **2013**, 57, 1773-1779		6
17	Strong magnetic resonance of coupled aluminum nanodisks on top of a silicon waveguide **2012**,		6
16	Enlarging the negative-index bandwidth of optical metamaterials by hybridized plasmon resonances. *Optics Letters*, **2010**, 35, 4205-7	3	5
15	Green and Sustainable Manufacture of Ultrapure Engineered Nanomaterials. *Nanomaterials*, **2020**, 10,	5.4	4
14	Transformational acoustic metamaterials based on pressure gradients. *Physical Review B*, **2014**, 90,	3.3	4
13	Ultra-short pulse propagation model for multi-core fibers based on local modes. *Scientific Reports*, **2017**, 7, 16457	4.9	4
12	High order standing-wave plasmon resonances in silver u-shaped nanowires. *Journal of Applied Physics*, **2012**, 112, 103104	2.5	4
11	Characterisation of on-chip wireless interconnects based on silicon nanoantennas via near-field scanning optical microscopy. *IET Optoelectronics*, **2019**, 13, 72-76	1.5	3
10	Edge-Plasmon Whispering-Gallery Modes in Nanoholes. *Physical Review Applied*, **2020**, 13,	4.3	3

9	Nontensorial Transformation Optics. *Physical Review Applied*, **2016**, 5,	4.3	3
8	Dual-band double-negative-index fishnet metamaterial at millimeter-waves. *Optics Letters*, **2011**, 36, 4245-7	3	3
7	Zero-bandwidth mode in a split-ring-resonator-loaded one-dimensional photonic crystal. *Physical Review B*, **2010**, 81,	3.3	3
6	High signal-to-noise ratio ultra-compact lab-on-a-chip microflow cytometer enabled by silicon optical antennas. *Optics Express*, **2018**, 26, 25645-25656	3.3	3
5	Exciting Surface Plasmons with Transformation Media. *Plasmonics*, **2012**, 7, 701-707	2.4	2
4	SYNTHESIS OF LOW-LOSS METAMATERIALS WITH NEGATIVE INDEX IN THE VISIBLE DOMAIN. *Modern Physics Letters B*, **2013**, 27, 1330011	1.6	2
3	Dynamically tunable transformation thermodynamics. *Journal of Optics (United Kingdom)*, **2016**, 18, 044026	2.6	2
2	Analogue transformation acoustics: Generalizing transformation techniques to non-form-invariant equations **2013**,		1
1	Controlling On-chip Optical Radiation with All-Dielectric Antennas: Reconfigurable Interconnects and Lab-on-achip Devices. *Journal of Physics: Conference Series*, **2018**, 961, 012008	0.3	