

Carlos GarcÃ-a-Meca

List of Publications by Year in descending order

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53
papers

1,034
citations

566801

15
h-index

414034

32
g-index

53
all docs

53
docs citations

53
times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Loss Multilayered Metamaterial Exhibiting a Negative Index of Refraction at Visible Wavelengths. <i>Physical Review Letters</i> , 2011, 106, 067402.	2.9	158
2	Role of surface plasmon polaritons on optical transmission through double layer metallic hole arrays. <i>Physical Review B</i> , 2009, 79, .	1.1	138
3	Double-negative polarization-independent fishnet metamaterial in the visible spectrum. <i>Optics Letters</i> , 2009, 34, 1603.	1.7	79
4	On-chip wireless silicon photonics: from reconfigurable interconnects to lab-on-chip devices. <i>Light: Science and Applications</i> , 2017, 6, e17053-e17053.	7.7	71
5	Analysis of Hybrid Dielectric Plasmonic Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 1496-1501.	1.9	59
6	Squeezing and expanding light without reflections via transformation optics. <i>Optics Express</i> , 2011, 19, 3562.	1.7	51
7	Magnetic Hot Spots in Closely Spaced Thick Gold Nanorings. <i>Nano Letters</i> , 2013, 13, 2654-2661.	4.5	48
8	Engineering antenna radiation patterns via quasi-conformal mappings. <i>Optics Express</i> , 2011, 19, 23743.	1.7	41
9	Analogue Transformations in Physics and their Application to Acoustics. <i>Scientific Reports</i> , 2013, 3, 2009.	1.6	39
10	Negative refractive index metamaterials aided by extraordinary optical transmission. <i>Optics Express</i> , 2009, 17, 6026.	1.7	31
11	Low-loss single-layer metamaterial with negative index of refraction at visible wavelengths. <i>Optics Express</i> , 2007, 15, 9320.	1.7	22
12	Terahertz Metamaterials on Flexible Polypropylene Substrate. <i>Plasmonics</i> , 2014, 9, 1143-1147.	1.8	22
13	Supersymmetric Transformations in Optical Fibers. <i>Physical Review Applied</i> , 2018, 9, .	1.5	22
14	Birefringence effects in multi-core fiber: coupled local-mode theory. <i>Optics Express</i> , 2016, 24, 21415.	1.7	20
15	Supersymmetry in the time domain and its applications in optics. <i>Nature Communications</i> , 2020, 11, 813.	5.8	19
16	Metamaterials for optical security. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	15
17	Coaxial plasmonic waveguide array as a negative-index metamaterial. <i>Optics Letters</i> , 2009, 34, 3325.	1.7	14
18	Space-time transformation acoustics. <i>Wave Motion</i> , 2014, 51, 785-797.	1.0	14

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19	Diffusive-light invisibility cloak for transient illumination. <i>Physical Review A</i> , 2016, 94, .	1.0	14
20	All-Silicon On-Chip Optical Nanoantennas as Efficient Interfaces for Plasmonic Devices. <i>ACS Photonics</i> , 2019, 6, 1094-1099.	3.2	14
21	Modeling high-order plasmon resonances of a U-shaped nanowire used to build a negative-index metamaterial. <i>Physical Review B</i> , 2009, 79, .	1.1	13
22	Multiple extraordinary optical transmission peaks from evanescent coupling in perforated metal plates surrounded by dielectrics. <i>Optics Express</i> , 2010, 18, 7893.	1.7	12
23	Midinfrared filters based on extraordinary optical transmission through subwavelength structured gold films. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	10
24	Full three-dimensional isotropic transformation media. <i>New Journal of Physics</i> , 2014, 16, 023030.	1.2	10
25	Analogue transformation acoustics and the compression of spacetime. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014, 12, 312-318.	1.0	9
26	Partial transmutation of singularities in optical instruments. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 075103.	1.0	8
27	Strong magnetic resonance of coupled aluminum nanodisks on top of a silicon waveguide. , 2012, , .		8
28	The variational principle in transformation optics engineering and some applications. <i>Mathematical and Computer Modelling</i> , 2013, 57, 1773-1779.	2.0	8
29	Ultra-short pulse propagation model for multi-core fibers based on local modes. <i>Scientific Reports</i> , 2017, 7, 16457.	1.6	8
30	Dynamically tunable transformation thermodynamics. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044026.	1.0	7
31	Characterisation of on-chip wireless interconnects based on silicon nanoantennas via near-field scanning optical microscopy. <i>IET Optoelectronics</i> , 2019, 13, 72-76.	1.8	7
32	Green and Sustainable Manufacture of Ultrapure Engineered Nanomaterials. <i>Nanomaterials</i> , 2020, 10, 466.	1.9	7
33	Enlarging the negative-index bandwidth of optical metamaterials by hybridized plasmon resonances. <i>Optics Letters</i> , 2010, 35, 4205.	1.7	5
34	Edge-Plasmon Whispering-Gallery Modes in Nanoholes. <i>Physical Review Applied</i> , 2020, 13, .	1.5	5
35	Dual-band double-negative-index fishnet metamaterial at millimeter-waves. <i>Optics Letters</i> , 2011, 36, 4245.	1.7	4
36	High order standing-wave plasmon resonances in silver u-shaped nanowires. <i>Journal of Applied Physics</i> , 2012, 112, 103104.	1.1	4

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37	Transformational acoustic metamaterials based on pressure gradients. <i>Physical Review B</i> , 2014, 90, .	1.1	4
38	Zero-bandwidth mode in a split-ring-resonator-loaded one-dimensional photonic crystal. <i>Physical Review B</i> , 2010, 81, .	1.1	3
39	Nontensorial Transformation Optics. <i>Physical Review Applied</i> , 2016, 5, .	1.5	3
40	High signal-to-noise ratio ultra-compact lab-on-a-chip microflow cytometer enabled by silicon optical antennas. <i>Optics Express</i> , 2018, 26, 25645.	1.7	3
41	Exciting Surface Plasmons with Transformation Media. <i>Plasmonics</i> , 2012, 7, 701-707.	1.8	2
42	SYNTHESIS OF LOW-LOSS METAMATERIALS WITH NEGATIVE INDEX IN THE VISIBLE DOMAIN. <i>Modern Physics Letters B</i> , 2013, 27, 1330011.	1.0	2
43	Analogue transformation acoustics: Generalizing transformation techniques to non-form-invariant equations. , 2013, , .		1
44	Negative index metamaterial through high-order plasmon resonances on u-shaped nanowires. , 2009, , .		0
45	Double-negative polarization-independent fishnet metamaterial operating in the visible spectrum. , 2009, , .		0
46	Light compression without reflections. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
47	Enlarged negative effective index bandwidth from fishnet metamaterials. , 2010, , .		0
48	Strong magnetism by closely spaced gold nanohoops. , 2012, , .		0
49	Analysis of localized plasmonic resonances in nano-disk arrays. , 2015, , .		0
50	Integration of magnetic plasmonic nanoantennas on a silicon chip. , 2017, , .		0
51	Transformation based diffusive-light cloak for transient illumination. , 2017, , .		0
52	Controlling On-chip Optical Radiation with All-Dielectric Antennas: Reconfigurable Interconnects and Lab-on-a-chip Devices. <i>Journal of Physics: Conference Series</i> , 2018, 961, 012008.	0.3	0
53	Role of the Lens Thickness and the Surface Termination in the Formation of Subwavelength Images by a Negative-Index Photonic-Crystal Slab. <i>The Open Optics Journal</i> , 2008, 2, 79-85.	0.1	0