Carlos GarcÃ-a-Meca

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5278088/publications.pdf

Version: 2024-02-01

53	1,034	566801 15	414034 32
papers	citations	h-index	g-index

53	53	53	1308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Green and Sustainable Manufacture of Ultrapure Engineered Nanomaterials. Nanomaterials, 2020, 10, 466.	1.9	7
2	Edge-Plasmon Whispering-Gallery Modes in Nanoholes. Physical Review Applied, 2020, 13, .	1.5	5
3	Supersymmetry in the time domain and its applications in optics. Nature Communications, 2020, 11, 813.	5.8	19
4	Characterisation of onâ€chip wireless interconnects based on silicon nanoantennas via nearâ€field scanning optical microscopy. IET Optoelectronics, 2019, 13, 72-76.	1.8	7
5	All-Silicon On-Chip Optical Nanoantennas as Efficient Interfaces for Plasmonic Devices. ACS Photonics, 2019, 6, 1094-1099.	3.2	14
6	Supersymmetric Transformations in Optical Fibers. Physical Review Applied, 2018, 9, .	1.5	22
7	High signal-to-noise ratio ultra-compact lab-on-a-chip microflow cytometer enabled by silicon optical antennas. Optics Express, 2018, 26, 25645.	1.7	3
8	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	0
9	On-chip wireless silicon photonics: from reconfigurable interconnects to lab-on-chip devices. Light: Science and Applications, 2017, 6, e17053-e17053.	7.7	71
10	Ultra-short pulse propagation model for multi-core fibers based on local modes. Scientific Reports, 2017, 7, 16457.	1.6	8
11	Integration of magnetic plasmonic nanoantennas on a silicon chip. , 2017, , .		0
12	Transformation based diffusive-light cloak for transient illumination. , 2017, , .		0
13	Birefringence effects in multi-core fiber: coupled local-mode theory. Optics Express, 2016, 24, 21415.	1.7	20
14	Dynamically tunable transformation thermodynamics. Journal of Optics (United Kingdom), 2016, 18, 044026.	1.0	7
15	Diffusive-light invisibility cloak for transient illumination. Physical Review A, 2016, 94, .	1.0	14
16	Nontensorial Transformation Optics. Physical Review Applied, 2016, 5, .	1.5	3
17	Analysis of localized plasmonic resonances in nano-disk arrays. , 2015, , .		0
18	Full three-dimensional isotropic transformation media. New Journal of Physics, 2014, 16, 023030.	1.2	10

#	Article	IF	Citations
19	Spaceâ€“time transformation acoustics. Wave Motion, 2014, 51, 785-797.	1.0	14
20	Transformational acoustic metamaterials based on pressure gradients. Physical Review B, 2014, 90, .	1.1	4
21	Terahertz Metamaterials on Flexible Polypropylene Substrate. Plasmonics, 2014, 9, 1143-1147.	1.8	22
22	Analogue transformation acoustics and the compression of spacetime. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 312-318.	1.0	9
23	Analogue Transformations in Physics and their Application to Acoustics. Scientific Reports, 2013, 3, 2009.	1.6	39
24	The variational principle in transformation optics engineering and some applications. Mathematical and Computer Modelling, 2013, 57, 1773-1779.	2.0	8
25	SYNTHESIS OF LOW-LOSS METAMATERIALS WITH NEGATIVE INDEX IN THE VISIBLE DOMAIN. Modern Physics Letters B, 2013, 27, 1330011.	1.0	2
26	Magnetic Hot Spots in Closely Spaced Thick Gold Nanorings. Nano Letters, 2013, 13, 2654-2661.	4.5	48
27	Analogue transformation acoustics: Generalizing transformation techniques to non-form-invariant equations. , 2013, , .		1
28	Strong magnetic resonance of coupled aluminum nanodisks on top of a silicon waveguide. , 2012, , .		8
29	High order standing-wave plasmon resonances in silver u-shaped nanowires. Journal of Applied Physics, 2012, 112, 103104.	1.1	4
30	Strong magnetism by closely spaced gold nanohoops. , 2012, , .		0
31	Exciting Surface Plasmons with Transformation Media. Plasmonics, 2012, 7, 701-707.	1.8	2
32	Squeezing and expanding light without reflections via transformation optics. Optics Express, 2011, 19, 3562.	1.7	51
33	Engineering antenna radiation patterns via quasi-conformal mappings. Optics Express, 2011, 19, 23743.	1.7	41
34	Dual-band double-negative-index fishnet metamaterial at millimeter-waves. Optics Letters, 2011, 36, 4245.	1.7	4
35	Low-Loss Multilayered Metamaterial Exhibiting a Negative Index of Refraction at Visible Wavelengths. Physical Review Letters, 2011, 106, 067402.	2.9	158
36	Partial transmutation of singularities in optical instruments. Journal of Optics (United Kingdom), 2011, 13, 075103.	1.0	8

#	Article	IF	Citations
37	Light compression without reflections. Proceedings of SPIE, 2010, , .	0.8	0
38	Enlarged negative effective index bandwidth from fishnet metamaterials. , 2010, , .		0
39	Multiple extraordinary optical transmission peaks from evanescent coupling in perforated metal plates surrounded by dielectrics. Optics Express, 2010, 18, 7893.	1.7	12
40	Enlarging the negative-index bandwidth of optical metamaterials by hybridized plasmon resonances. Optics Letters, 2010, 35, 4205.	1.7	5
41	Zero-bandwidth mode in a split-ring-resonator-loaded one-dimensional photonic crystal. Physical Review B, 2010, 81, .	1.1	3
42	Negative index metamaterial through high-order plasmon resonances on u-shaped nanowires. , 2009, , .		0
43	Midinfrared filters based on extraordinary optical transmission through subwavelength structured gold films. Journal of Applied Physics, 2009, 106, .	1.1	10
44	Modeling high-order plasmon resonances of a U-shaped nanowire used to build a negative-index metamaterial. Physical Review B, 2009, 79, .	1.1	13
45	Role of surface plasmon polaritons on optical transmission through double layer metallic hole arrays. Physical Review B, 2009, 79, .	1.1	138
46	Double-negative polarization-independent fishnet metamaterial in the visible spectrum. Optics Letters, 2009, 34, 1603.	1.7	79
47	Coaxial plasmonic waveguide array as a negative-index metamaterial. Optics Letters, 2009, 34, 3325.	1.7	14
48	Negative refractive index metamaterials aided by extraordinary optical transmission. Optics Express, 2009, 17, 6026.	1.7	31
49	Double-negative polarization-independent fishnet metamaterial operating in the visible spectrum. , 2009, , .		0
50	Metamaterials for optical security. Applied Physics Letters, 2009, 94, .	1.5	15
51	Analysis of Hybrid Dielectric Plasmonic Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1496-1501.	1.9	59
52	Role of the Lens Thickness and the Surface Termination in the Formation of Subwavelength Images by a Negative-Index Photonic-Crystal Slab. The Open Optics Journal, 2008, 2, 79-85.	0.1	0
53	Low-loss single-layer metamaterial with negative index of refraction at visible wavelengths. Optics Express, 2007, 15, 9320.	1.7	22