

Alessio Benedetti

List of Publications by Year in descending order

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papers

860
citations

687363

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28
docs citations

28
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale 3D Chiral Plasmonic Helices with Circular Dichroism at Visible Frequencies. ACS Photonics, 2015, 2, 105-114.	6.6	211
2	Triple-helical nanowires by tomographic rotatory growth for chiral photonics. Nature Communications, 2015, 6, 6484.	12.8	145
3	Three Dimensional Chiral Metamaterial Nanospirals in the Visible Range by Vertically Compensated Focused Ion Beam Induced Deposition. Advanced Optical Materials, 2014, 2, 154-161.	7.3	110
4	Programmable Extreme Chirality in the Visible by Helix-Shaped Metamaterial Platform. Nano Letters, 2016, 16, 5823-5828.	9.1	71
5	Engineering the second harmonic generation pattern from coupled gold nanowires. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 408.	2.1	47
6	Second Harmonic Generation Circular Dichroism from Self-Ordered Hybrid Plasmonic Photonic Nanosurfaces. Advanced Optical Materials, 2014, 2, 208-213.	7.3	46
7	Second harmonic generation from 3D nanoantennas: on the surface and bulk contributions by far-field pattern analysis. Optics Express, 2011, 19, 26752.	3.4	43
8	Tailoring chiro-optical effects by helical nanowire arrangement. Nanoscale, 2015, 7, 18081-18088.	5.6	43
9	Second harmonic circular dichroism by self-assembled metasurfaces [Invited]. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1287.	2.1	27
10	Precise detection of circular dichroism in a cluster of nano-helices by photoacoustic measurements. Scientific Reports, 2017, 7, 5257.	3.3	27
11	Coupled 2D Ag nano-resonator chains for enhanced and spatially tailored second harmonic generation. Optics Express, 2011, 19, 8218.	3.4	19
12	Bessel-Gauss Beams Through Leaky Waves: Focusing and Diffractive Properties. Physical Review Applied, 2020, 13, .	3.8	14
13	Analysis on vertical directional couplers with long range surface plasmons for multilayer optical routing. Journal of Applied Physics, 2016, 120, 083106.	2.5	13
14	Numerical tailoring of linear response from plasmonic nano-resonators grown on a layer of polystyrene spheres. Journal of Applied Physics, 2014, 116, .	2.5	12
15	High circular dichroism and robust performance in planar plasmonic metamaterial made of nano-comma-shaped resonators. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3079.	2.1	8
16	Measurement of the circular dichroism in the second harmonic optical signal produced by Au covered self ordered dielectric nanospheres. , 2013, , .		4
17	Chirality: Three Dimensional Chiral Metamaterial Nanospirals in the Visible Range by Vertically Compensated Focused Ion Beam Induced-Deposition (Advanced Optical Materials 2/2014). Advanced Optical Materials, 2014, 2, 198-198.	7.3	3
18	Multilayer optical routing by means of vertical directional coupler with long range surface plasmons. AIP Conference Proceedings, 2019, , .	0.4	3

#	ARTICLE	IF	CITATIONS
19	Wide band negative magnetic permeability materials (NMPM) with composite metalsemiconductor structures based on the Drude model, and applications to negative-refractive index (NIM). Optics Express, 2007, 15, 6534.	3.4	2
20	Second Harmonic Generation: Second Harmonic Generation Circular Dichroism from Self-Ordered Hybrid Plasmonic-Photonic Nanosurfaces (Advanced Optical Materials 3/2014). Advanced Optical Materials, 2014, 2, 207-207.	7.3	2
21	Planar chiral plasmonic 2D metamaterial: Design and fabrication. AIP Conference Proceedings, 2019, , .	0.4	2
22	Microwave synthesis of Bessel, Bessel+Gauss, and Gaussian beams: a fully vectorial electromagnetic approach. International Journal of Microwave and Wireless Technologies, 2021, 13, 509-516.	1.9	2
23	Efficient light focusing through tunable spiralized Fresnel zone plate. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1008.	2.1	2
24	Application of ray-path geometry modification to the design of a collimating structure for LEDs. Optics Communications, 2008, 281, 5674-5682.	2.1	1
25	Symmetry breaking in the second harmonic field of self-assembled metallic nanostructures. , 2015, , .		1
26	Spiral antennas for the generation of bessel beams with tunable nondiffractive range. Journal Physics D: Applied Physics, 2021, 54, 305102.	2.8	1
27	Dynamic phase control by rigid spiralized Fresnel zone plates. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2785.	2.1	1