Alessandro Salandrino

List of Publications by Year
in descending order

51 papers	3,997 citations	361413 20 h-index	477307 29 g-index
52 all docs	52 docs citations	52 times ranked	3876 citing authors

#	Article	IF	Citations
1	Epsilon-near-zero metamaterials and electromagnetic sources: Tailoring the radiation phase pattern. Physical Review B, 2007, 75, .	3.2	876
2	Far-field subdiffraction optical microscopy using metamaterial crystals: Theory and simulations. Physical Review B, 2006, 74, .	3.2	626
3	Circuit Elements at Optical Frequencies: Nanoinductors, Nanocapacitors, and Nanoresistors. Physical Review Letters, 2005, 95, 095504.	7.8	565
4	Negative effective permeability and left-handed materials at optical frequencies. Optics Express, 2006, 14, 1557.	3.4	301
5	Airy plasmon: a nondiffracting surface wave. Optics Letters, 2010, 35, 2082.	3.3	265
6	Phase Mismatchâ€“Free Nonlinear Propagation in Optical Zero-Index Materials. Science, 2013, 342, 1223-1226.	12.6	255
7	Predicting nonlinear properties of metamaterials from the linear response. Nature Materials, 2015, 14, 379-383.	27.5	243
8	Shaping light beams in the nanometer scale: A Yagi-Uda nanoantenna in the optical domain. Physical Review B, 2007, 76, .	3.2	189
9	Generation of linear and nonlinear nonparaxial accelerating beams. Optics Letters, 2012, 37, 2820.	3.3	136
10	Plasmonic Resonant Solitons in Metallic Nanosuspensions. Nano Letters, 2014, 14, 2498-2504.	9.1	67
11	Parallel, series, and intermediate interconnections of optical nanocircuit elements 2 Nanocircuit and physical interpretation. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 3014.	2.1	48
12	Sub-wavelength resonators: on the use of metafilms to overcome the Î»/2 size limit. IET Microwaves, Antennas and Propagation, 2008, 2, 120-129.	1.4	47
13	Optical spectrometer at the nanoscale using optical Yagi-Uda nanoantennas. Physical Review B, 2009, 79, .	3.2	46
14	Generalized Mie theory of optical forces. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 855.	2.1	46
15	Reverse optical forces in negative index dielectric waveguide arrays. Optics Letters, 2011, 36, 3103.	3.3	36
16	Coupling of optical lumped nanocircuit elements and effects of substrates. Optics Express, 2007, 15, 13865.	3.4	35
17	Near-infrared electro-optic modulator based on plasmonic graphene. Optics Letters, 2015, 40, 1516.	3.3	35
18	Adiabatic far-field sub-diffraction imaging. Nature Communications, 2015, 6, 7942.	12.8	29

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19	Parallel, series, and intermediate interconnections of optical nanocircuit elements 1 Analytical solution. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 3007.	2.1	28
20	Analysis of a three-core adiabatic directional coupler. Optics Communications, 2009, 282, 4524-4526.	2.1	25
21	Electrodynamical Light Trapping Using Whispering-Gallery Resonances in Hyperbolic Cavities. Physical Review X, 2014, 4, .	8.9	19
22	Negative index Clarricoats-Waldron waveguides for terahertz and far infrared applications. Optics Express, 2010, 18, 3626.	3.4	15
23	Scattering detection of a solenoidal Poynting vector field. Optics Letters, 2016, 41, 3615.	3.3	11
24	Macroscale Transformation Optics Enabled by Photoelectrochemical Etching. Advanced Materials, 2015, 27, 6131-6136.	21.0	10
25	Nanocircuit elements, nano-transmission lines and nano-antennas using plasmonic materials in the optical domain. , 0, , .		7
26	Nonlinear infrared plasmonic waveguide arrays. Nano Research, 2016, 9, 224-229.	10.4	5
27	Airy plasmons defeat diffraction on the surface. Physics Magazine, 2011, 4, .	0.1	4
28	Pattern Synthesis in Optical Nano-Antennas Using Collections of Metallic Nanoparticles. , 2005, , .		4
29	Superresolution via enhanced evanescent tunneling. Optics Letters, 2011, 36, 487.	3.3	3
30	Tunable hyperbolic photonic devices based on periodic structures of graphene and HfO2. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2616.	2.1	3
31	Optical Yagi-Uda and Reflector Nanoantennas and Their Potential Applications as Nano-Scale Spectrum Analyzers in Molecular Spectroscopy. , 2006, , .		3
32	Ideas for Optical Nanoantenna Design: From Microwave to Visible Frequencies. , 2007, , .		3
33	Radiation Characteristics and Beam Forming of Multi-Particle Nanoantennas at Optical Frequencies. , 0, , .		1
34	Spatially modulated metamaterial array for transmit (SMMArT) and slow-leaky-wave antennas. , 2016, , .		1
35	Spatially modulated metamaterial array for transmit (SMMArT). , 2016, , .		1
36	From Plasmonic Nanocircuit Elements to Volumetric Photonic Negative-Refraction Metamaterials. , 2006, , .		1

#	Article	IF	Citations
37	Binary Encoding and Nanotagging Using Plasmonic Core-Shell Nanoparticles. , 2006, , .		1
38	Anomalous Optical Force Fields around High-Contrast Subwavelength Nanowaveguides. , 2010, , .		1
39	Fluorescence dynamics in plasmonic core-shell nanoparticles. , 2008, , .		0
40	Super-resolution via Enhanced Evanescent Tunneling. , 2011, , .		0
41	Optical Tractor Beams in Scattering-induced Left-Handed Fields. , 2011, , .		0
42	Anomalous optical forces on a Mie-particle in a transverse Poynting vector flow. , 2012, , .		0
43	Mode Matched Harmonic Generation in Plasmonic Nanostructures. , 2013, , .		0
44	Nonlinear optics in zero index materials. , 2014, , .		0
45	Sub-diffraction Imaging via Surface Plasmon Decompression. , 2014, , .		0
46	Coherent effects in nonlinear metamaterial-based devices. , 2015, , .		0
47	Source Interaction with Epsilon-Near-Zero (ENZ) Materials. , 2006, , .		0
48	Airy Plasmon: A Non-Diffracting Surface Wave. , 2010, , .		0
49	Demonstration of nonparaxial beams self-bending along circular trajectories. , 2012, , .		0
50	Nonlinear Optical Propagation in Zero Index Materials. , 2015, , .		0
51	Bimodal Phase-Matching in Nonlinear Plasmonics. , 2016, , .		0