

Marco Grande

List of Publications by Year in descending order

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67
papers

1,077
citations

393982

19
h-index

433756

31
g-index

68
all docs

68
docs citations

68
times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based absorber exploiting guided mode resonances in one-dimensional gratings. Optics Express, 2014, 22, 31511.	1.7	110
2	Nonlinear control of absorption in one-dimensional photonic crystal with graphene-based defect. Optics Letters, 2013, 38, 3550.	1.7	93
3	Graphene-based perfect optical absorbers harnessing guided mode resonances. Optics Express, 2015, 23, 21032.	1.7	91
4	Optically transparent microwave screens based on engineered graphene layers. Optics Express, 2016, 24, 22788.	1.7	55
5	Fabrication of force sensors based on two-dimensional photonic crystal technology. Microelectronic Engineering, 2007, 84, 1450-1453.	1.1	49
6	Asymmetric plasmonic grating for optical sensing of thin layers of organic materials. Sensors and Actuators B: Chemical, 2011, 160, 1056-1062.	4.0	37
7	Optically Transparent Microwave Polarizer Based On Quasi-Metallic Graphene. Scientific Reports, 2015, 5, 17083.	1.6	37
8	Experimental demonstration of a novel bio-sensing platform via plasmonic band gap formation in gold nano-patch arrays. Optics Express, 2011, 19, 21385.	1.7	36
9	Extraordinary low sheet resistance of CVD graphene by thionyl chloride chemical doping. Carbon, 2020, 170, 75-84.	5.4	32
10	Color control through plasmonic metal gratings. Applied Physics Letters, 2012, 100, .	1.5	28
11	Optically transparent wideband CVD graphene-based microwave antennas. Applied Physics Letters, 2018, 112, .	1.5	28
12	Optical filter based on two coupled PhC GaAs-membranes. Optics Letters, 2010, 35, 411.	1.7	27
13	Tuning infrared guided-mode resonances with graphene. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 426.	0.9	24
14	Emission control of colloidal nanocrystals embedded in Si3N4 photonic crystal H1 nanocavities. Microelectronic Engineering, 2010, 87, 1435-1438.	1.1	23
15	Reconfigurable and optically transparent microwave absorbers based on deep eutectic solvent-gated graphene. Scientific Reports, 2019, 9, 5463.	1.6	22
16	Design and Manufacturing of Super-Shaped Dielectric Resonator Antennas for 5G Applications Using Stereolithography. IEEE Access, 2020, 8, 82929-82937.	2.6	22
17	Plasmonic bandgap formation in two-dimensional periodic arrangements of gold patches with subwavelength gaps. Optics Letters, 2011, 36, 903.	1.7	21
18	Experimental surface-enhanced Raman scattering response of two-dimensional finite arrays of gold nanopatches. Applied Physics Letters, 2012, 101, .	1.5	21

#	ARTICLE	IF	CITATIONS
19	Fabrication of doubly resonant plasmonic nanopatch arrays on graphene. Applied Physics Letters, 2013, 102, 231111.	1.5	19
20	Optical filter with very large stopband ($\lambda \sim 300$ nm) based on a photonic-crystal vertical-directional coupler. Optics Letters, 2009, 34, 3292.	1.7	18
21	Asymmetric hybrid double dielectric loaded plasmonic waveguides for sensing applications. Sensors and Actuators B: Chemical, 2013, 186, 148-155.	4.0	16
22	1D silicon nitride grating refractive index sensor suitable for integration with CMOS detectors. IEEE Photonics Journal, 2017, , 1-1.	1.0	16
23	Active InGaAsP/InP Photonic Bandgap Waveguides for Wavelength-Selective Switching. IEEE Journal of Quantum Electronics, 2011, 47, 172-181.	1.0	15
24	Enhancement of Extraordinary Optical Transmission in a Double Heterostructure Plasmonic Bandgap Cavity. Plasmonics, 2011, 6, 469-476.	1.8	15
25	Towards Portable Nanophotonic Sensors. Sensors, 2019, 19, 1715.	2.1	15
26	Numerical analysis of the coupling mechanism in long-range plasmonic couplers at $155 \mu\text{m}$. Optics Letters, 2013, 38, 46.	1.7	14
27	Gain and phase control in a graphene-loaded reconfigurable antenna. Applied Physics Letters, 2019, 115, .	1.5	14
28	RESONANCE WAVELENGTH DEPENDENCE AND MODE FORMATION IN GOLD NANOROD OPTICAL ANTENNAS WITH FINITE THICKNESS. Progress in Electromagnetics Research B, 2011, 30, 337-353.	0.7	13
29	Tuning of Graphene-Based Optical Devices Operating in the Near-Infrared. Applied Sciences (Switzerland), 2021, 11, 8367.	1.3	12
30	Graphene-Based Cylindrical Pillar Gratings for Polarization-Insensitive Optical Absorbers. Applied Sciences (Switzerland), 2019, 9, 2528.	1.3	11
31	High transmission from 2D periodic plasmonic finite arrays with sub-20 nm gaps realized with Ga focused ion beam milling. Nanotechnology, 2020, 31, 435301.	1.3	11
32	Stable planar mesoscopic photonic crystal cavities. Optics Letters, 2014, 39, 4223.	1.7	10
33	Plasmonics on a Neural Implant: Engineering Light-Matter Interactions on the Nonplanar Surface of Tapered Optical Fibers. Advanced Optical Materials, 2022, 10, .	3.6	9
34	Design and modeling of tapered waveguide for photonic crystal slab coupling by using time-domain Hertzian potentials formulation. Optics Express, 2007, 15, 16484.	1.7	8
35	Efficient plasmonic nanostructures for thin film solar cells. , 2010, , .		8
36	Plasmonic Bandgaps in 1D Arrays of Slits on Metal Layers Excited by Out-of-Plane Sources. International Journal of Optics, 2012, 2012, 1-12.	0.6	8

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37	CMOS Nanophotonic Sensor With Integrated Readout System. IEEE Sensors Journal, 2018, 18, 9188-9194.	2.4	8
38	Full optical confinement in 1D mesoscopic photonic crystal-based microcavities: an experimental demonstration. Optics Express, 2017, 25, 28288.	1.7	7
39	Amplitude and phase modulation in microwave ring resonators by doped CVD graphene. Nanotechnology, 2018, 29, 325201.	1.3	7
40	Bio-Inspired Dielectric Resonator Antenna for Wideband Sub-6 GHz Range. Applied Sciences (Switzerland), 2020, 10, 8826.	1.3	7
41	Tailoring Absorption in Metal Gratings with Resonant Ultrathin Bridges. Plasmonics, 2013, 8, 1445-1456.	1.8	6
42	2D Dielectric Nanoimprinted PMMA Pillars on Metallo-Dielectric Films. Applied Sciences (Switzerland), 2019, 9, 3812.	1.3	6
43	Localized surface plasmon resonances in gold nano-patches on a gallium nitride substrate. Nanotechnology, 2012, 23, 455709.	1.3	5
44	Rapid Prototyping of Bio-Inspired Dielectric Resonator Antennas for Sub-6 GHz Applications. Micromachines, 2021, 12, 1046.	1.4	5
45	High-efficient ultra-short vertical long-range plasmonic couplers. Journal of Nanophotonics, 2012, 6, 061609.	0.4	4
46	HIGH-Q PHOTONIC CRYSTAL NANOBEAM CAVITY BASED ON A SILICON NITRIDE MEMBRANE INCORPORATING FABRICATION IMPERFECTIONS AND A LOW-INDEX MATERIAL LAYER. Progress in Electromagnetics Research B, 2012, 37, 191-204.	0.7	4
47	Photonic band gap active waveguide filters based on dilute nitrides. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 567-572.	0.8	4
48	Control of Q-factor in nanobeam cavities on substrate. , 2016, , .		4
49	Multifunctional and reconfigurable graphene/liquid crystal-assisted asymmetrical Fabry-Pérot cavity for reflected light control. Optics Express, 2021, 29, 27816.	1.7	4
50	Bending Analysis in AlN-Based Multilayered Piezoelectric Cantilevers. Ferroelectrics, 2009, 389, 75-82.	0.3	3
51	2D plasmonic gold nano-patches for linear and nonlinear applications. Microelectronic Engineering, 2013, 111, 234-237.	1.1	3
52	Optically transparent graphene-based Salisbury screen microwave absorber. , 2015, , .		3
53	Holographic Manipulation of Nanostructured Fiber Optics Enables Spatially-Resolved, Reconfigurable Optical Control of Plasmonic Local Field Enhancement and SERS. Small, 2022, 18, e2200975.	5.2	3
54	Emission and Transmission Properties of a Doubly Resonant 3D Nanodisk Yagi-Uda Antenna for Wireless Optical Communications. Plasmonics, 2013, 8, 173-183.	1.8	2

#	ARTICLE	IF	CITATIONS
55	3D Printed Micro-Cells for Phase Control in 5G mmWave Applications. IEEE Access, 2021, 9, 46049-46060.	2.6	2
56	Anomalous plasmonic band gap formation in two-dimensional slit arrays with different periods. , 2011, , .		1
57	Plasmonic Nanostructures on Curved Surfaces for Fiber-Based Sensors. , 2020, , .		1
58	Optical filter based on a coupled bilayer photonic crystal. Microelectronic Engineering, 2011, 88, 2771-2774.	1.1	0
59	Novel Plasmonic Bio-Sensing System Based on Two-Dimensional Gold Patch Arrays for Linear and Nonlinear Regimes. Advances in Science and Technology, 2012, 81, 15-19.	0.2	0
60	Gold strip gratings with binary supercell. Optics Letters, 2013, 38, 2904.	1.7	0
61	Tuning Fano resonances of graphene-based gratings. , 2016, , .		0
62	Thermal Tuning of Resonant Gratings Using a Phase-Change Material. , 2020, , .		0
63	Control of Fano resonances in graphene-based gratings at telecom wavelengths. , 2016, , .		0
64	Optical trapping in 1D mesoscopic photonic crystal microcavities. , 2018, , .		0
65	Optical Properties of Finite Subsets of FIB-Milled 2D Periodic Arrays of Gold Nanoplatelets with Sub-20-nm Gaps. , 2020, , .		0
66	Segmented-Wave Analysis of Nano-Gratings on Curved Surfaces. , 2020, , .		0
67	Plasmonic brain implants for the next generation of nano-optical neural interfaces. , 2022, , .		0