

NicolÃ² Maccaferri

List of Publications by Year in descending order

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71
papers

2,159
citations

236925

25
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233421

45
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75
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75
docs citations

75
times ranked

2390
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive and label-free molecular-level detection enabled by light phase control in magnetoplasmonic nanoantennas. <i>Nature Communications</i> , 2015, 6, 6150.	12.8	172
2	Machine Learning in Nanoscience: Big Data at Small Scales. <i>Nano Letters</i> , 2020, 20, 2-10.	9.1	138
3	Plasmonic Nanopores for Single-Molecule Detection and Manipulation: Toward Sequencing Applications. <i>Nano Letters</i> , 2019, 19, 7553-7562.	9.1	118
4	Tuning the Magneto-Optical Response of Nanosize Ferromagnetic Ni Disks Using the Phase of Localized Plasmons. <i>Physical Review Letters</i> , 2013, 111, 167401.	7.8	111
5	Nanoscale magnetophotonics. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	95
6	Magnetoplasmonic Design Rules for Active Magneto-Optics. <i>Nano Letters</i> , 2014, 14, 7207-7214.	9.1	94
7	Magnetic Control of the Chiroptical Plasmonic Surfaces. <i>Nano Letters</i> , 2018, 18, 302-307.	9.1	85
8	Resonant Enhancement of Magneto-Optical Activity Induced by Surface Plasmon Polariton Modes Coupling in 2D Magnetoplasmonic Crystals. <i>ACS Photonics</i> , 2015, 2, 1769-1779.	6.6	69
9	Anisotropic Nanoantenna-Based Magnetoplasmonic Crystals for Highly Enhanced and Tunable Magneto-Optical Activity. <i>Nano Letters</i> , 2016, 16, 2533-2542.	9.1	67
10	Hyperbolic Meta-Antennas Enable Full Control of Scattering and Absorption of Light. <i>Nano Letters</i> , 2019, 19, 1851-1859.	9.1	62
11	Recent advances in plasmonic nanocavities for single-molecule spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 633-642.	4.6	61
12	On-Demand Intracellular Delivery of Single Particles in Single Cells by 3D Hollow Nanoelectrodes. <i>Nano Letters</i> , 2019, 19, 722-731.	9.1	59
13	Enhanced magnetic modulation of light polarization exploiting hybridization with multipolar dark plasmons in magnetoplasmonic nanocavities. <i>Light: Science and Applications</i> , 2020, 9, 49.	16.6	54
14	Active Magnetoplasmonic Ruler. <i>Nano Letters</i> , 2015, 15, 3204-3211.	9.1	48
15	Hybrid Ni/SiO ₂ /Au dimer arrays for high-resolution refractive index sensing. <i>Nanophotonics</i> , 2018, 7, 905-912.	6.0	48
16	Hyperbolic dispersion metasurfaces for molecular biosensing. <i>Nanophotonics</i> , 2020, 10, 295-314.	6.0	48
17	Enhanced Raman Investigation of Cell Membrane and Intracellular Compounds by 3D Plasmonic Nanoelectrode Arrays. <i>Advanced Science</i> , 2018, 5, 1800560.	11.2	47
18	Ultrafast all-optical switching enabled by epsilon-near-zero-tailored absorption in metal-insulator nanocavities. <i>Communications Physics</i> , 2020, 3, .	5.3	47

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19	Hybrid plasmonic lattices with tunable magneto-optical activity. <i>Optics Express</i> , 2016, 24, 3652.	3.4	40
20	Polarization conversion-based molecular sensing using anisotropic plasmonic metasurfaces. <i>Nanoscale</i> , 2016, 8, 10576-10581.	5.6	39
21	Scanning Probe Photonic Nanojet Lithography. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32386-32393.	8.0	36
22	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. <i>Optics Express</i> , 2013, 21, 9875.	3.4	34
23	Magnetophotonics for sensing and magnetometry toward industrial applications. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	34
24	Hybrid plasmonic nanostructures based on controlled integration of MoS ₂ flakes on metallic nanoholes. <i>Nanoscale</i> , 2018, 10, 17105-17111.	5.6	32
25	Plasmonic zero mode waveguide for highly confined and enhanced fluorescence emission. <i>Nanoscale</i> , 2018, 10, 17362-17369.	5.6	30
26	â–DNA through Porous Materialsâ– Surface-Enhanced Raman Scattering in a Simple Plasmonic Nanopore. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22663-22670.	3.1	28
27	Magneto-Optical Activity in Nonmagnetic Hyperbolic Nanoparticles. <i>Physical Review Letters</i> , 2021, 127, 217402.	7.8	26
28	Coupling phenomena and collective effects in resonant meta-atoms supporting both plasmonic and (opto-)magnetic functionalities: an overview on properties and applications [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, E112.	2.1	25
29	Enhanced Optical Spectroscopy for Multiplexed DNA and Protein-Sequencing with Plasmonic Nanopores: Challenges and Prospects. <i>Analytical Chemistry</i> , 2022, 94, 503-514.	6.5	25
30	Particle trapping and beaming using a 3D nanotip excited with a plasmonic vortex. <i>Optics Letters</i> , 2020, 45, 823.	3.3	24
31	Effects of a nonâ–absorbing substrate on the magnetoâ–optical Kerr response of plasmonic ferromagnetic nanodisks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1067-1075.	1.8	23
32	Live Intracellular Biorthogonal Imaging by Surface Enhanced Raman Spectroscopy using Alkyne-Silver Nanoparticles Clusters. <i>Scientific Reports</i> , 2018, 8, 12652.	3.3	23
33	Electron Energy Loss Spectroscopy of Bright and Dark Modes in Hyperbolic Metamaterial Nanostructures. <i>Advanced Optical Materials</i> , 2020, 8, 2000277.	7.3	23
34	Enhanced Nonlinear Emission from Single Multilayered Metalâ–Dielectric Nanocavities Resonating in the Near-Infrared. <i>ACS Photonics</i> , 2021, 8, 512-520.	6.6	23
35	Designer Bloch plasmon polariton dispersion in grating-coupled hyperbolic metamaterials. <i>APL Photonics</i> , 2020, 5, 076109.	5.7	20
36	Near- and Mid-Infrared Graphene-Based Photonic Architectures for Ultrafast and Low-Power Electro-Optical Switching and Ultra-High Resolution Imaging. <i>ACS Applied Nano Materials</i> , 2020, 3, 12218-12230.	5.0	20

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37	A hybrid metal-dielectric zero mode waveguide for enhanced single molecule detection. <i>Chemical Communications</i> , 2019, 55, 9725-9728.	4.1	19
38	Site-selective functionalization of plasmonic nanopores for enhanced fluorescence emission rate and Förster resonance energy transfer. <i>Nanoscale Advances</i> , 2019, 1, 2454-2461.	4.6	19
39	Intracellular Recording of Human Cardiac Action Potentials on Market-Available Multielectrode Array Platforms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 66.	4.1	19
40	Bio-Assisted Tailored Synthesis of Plasmonic Silver Nanorings and Site-Selective Deposition on Graphene Arrays. <i>Advanced Optical Materials</i> , 2020, 8, 1901583.	7.3	18
41	Site-Selective Integration of MoS ₂ Flakes on Nanopores by Means of Electrophoretic Deposition. <i>ACS Omega</i> , 2019, 4, 9294-9300.	3.5	16
42	Two-state switchable plasmonic tweezers for dynamic manipulation of nano-objects. <i>Nanoscale</i> , 2020, 12, 8574-8581.	5.6	15
43	Magnetoplasmonic control of plasmonic vortices. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	14
44	Tunable magnetoplasmonics in lattices of Ni/SiO ₂ /Au dimers. <i>Scientific Reports</i> , 2019, 9, 9907.	3.3	14
45	Plasmon Hybridization in Compressible Metal-Insulator-Metal Nanocavities: An Optical Approach for Sensing Deep Sub-Wavelength Deformation. <i>Advanced Optical Materials</i> , 2020, 8, 2000609.	7.3	14
46	Field-resolved detection of the temporal response of a single plasmonic antenna in the mid-infrared. <i>Optica</i> , 2021, 8, 898.	9.3	14
47	Förster-Resonance Energy Transfer between Diffusing Molecules and a Functionalized Plasmonic Nanopore. <i>Physical Review Applied</i> , 2020, 14, .	3.8	10
48	Chasing Plasmons in Flatland. <i>Nano Letters</i> , 2019, 19, 7549-7552.	9.1	9
49	Directional Plasmonic Excitation by Helical Nanotips. <i>Nanomaterials</i> , 2021, 11, 1333.	4.1	9
50	Magnetic control of particle trapping in a hybrid plasmonic nanopore. <i>Applied Physics Letters</i> , 2021, 118, 193102.	3.3	9
51	Speeding up Nanoscience and Nanotechnology with Ultrafast Plasmonics. <i>Nano Letters</i> , 2020, 20, 5593-5596.	9.1	8
52	Electrophoretic Deposition of WS ₂ Flakes on Nanoholes Arrays—Role of Used Suspension Medium. <i>Materials</i> , 2019, 12, 3286.	2.9	7
53	Nanoporous gold decorated with silver nanoparticles as large area efficient SERS substrate. , 2017, , .		2
54	All-Dielectric and Magnetoplasmonic Nanoantenna Surfaces for the Dynamic Chiroptics. , 2019, , .		1

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55	Modern Magnetophotonic Materials and their Applications: introduction to special issue. Optical Materials Express, 2022, 12, 2087.	3.0	1
56	Helical light emission from plasmonic vortices via magnetic tapered tip. Journal of Physics: Conference Series, 2018, 961, 012001.	0.4	0
57	Field-Resolved Response of Plasmonic Antennas. , 2019, , .		0
58	Nonlinear optical response of metal-dielectric nanocavities resonating in the near-infrared. , 2021, , .		0
59	Broadband tuning of the magneto-optical response of hybrid metal-insulator nanoparticles enabled by hyperbolic electric and magnetic modes. , 2021, , .		0
60	Ultrafast opto-acoustic modulation of light reflectance in metal-insulator-metal epsilon-near-zero nanocavities. , 2021, , .		0
61	Enhanced second-harmonic generation by single metal-insulator multilayered nanocavities with axial symmetry resonating in the near-infrared. , 2021, , .		0
62	Hyperbolic dispersion metasurfaces for molecular biosensing. , 2021, , 301-320.		0
63	Magneto-optics in hyperbolic nanomaterials. , 2021, , .		0
64	Tunable magneto-optics in hyperbolic nanoparticles. , 2021, , .		0
65	Magnetoplasmonic crystals based on anisotropic nanoantennas. , 2016, , .		0
66	Magnetic control of the chiroptical plasmonic surfaces (Conference Presentation). , 2018, , .		0
67	Fabrication and optical characterization of hyperbolic nanoparticles on a transparent substrate. , 2019, , .		0
68	Plasmonic nanopore prepared on MoS2 membrane - hybrid nanostructures based on site selective deposition. , 2019, , .		0
69	FRET characterization of hollow plasmonic nanoantennas. , 2019, , .		0
70	Amplification of Magneto-Optical Activity via Hybridization with Dark Plasmons. , 2020, , .		0
71	Magneto-optics in type-II hyperbolic metamaterial nanoantennas. , 2021, , .		0