

Michele Tamagnone

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,154
citations

257101

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433756

31
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37
all docs

37
docs citations

37
times ranked

2751
citing authors

#	ARTICLE	IF	CITATIONS
1	A mid-infrared biaxial hyperbolic van der Waals crystal. <i>Science Advances</i> , 2019, 5, eaav8690.	4.7	243
2	Metasurface optics for on-demand polarization transformations along the optical path. <i>Nature Photonics</i> , 2021, 15, 287-296.	15.6	212
3	Single-Layer Metasurface with Controllable Multiwavelength Functions. <i>Nano Letters</i> , 2018, 18, 2420-2427.	4.5	165
4	Tunable graphene reflective cells for THz reflectarrays and generalized law of reflection. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	162
5	Near optimal graphene terahertz non-reciprocal isolator. <i>Nature Communications</i> , 2016, 7, 11216.	5.8	108
6	Polariton nanophotonics using phase-change materials. <i>Nature Communications</i> , 2019, 10, 4487.	5.8	106
7	Fundamental limits and near-optimal design of graphene modulators and non-reciprocal devices. <i>Nature Photonics</i> , 2014, 8, 556-563.	15.6	103
8	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. <i>Science Advances</i> , 2018, 4, eaat7189.	4.7	100
9	Frequency combs induced by phase turbulence. <i>Nature</i> , 2020, 582, 360-364.	13.7	87
10	Comment on "Encoding many channels on the same frequency through radio vorticity: first experimental test". <i>New Journal of Physics</i> , 2012, 14, 118001.	1.2	82
11	Selective excitation and imaging of ultraslow phonon polaritons in thin hexagonal boron nitride crystals. <i>Light: Science and Applications</i> , 2018, 7, 27.	7.7	75
12	Engineering phonon polaritons in van der Waals heterostructures to enhance in-plane optical anisotropy. <i>Science Advances</i> , 2019, 5, eaau7171.	4.7	71
13	Multifunctional wide-angle optics and lasing based on supercell metasurfaces. <i>Nature Communications</i> , 2021, 12, 3787.	5.8	66
14	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. <i>Nature Communications</i> , 2021, 12, 6249.	5.8	59
15	Electro-optic spatial light modulator from an engineered organic layer. <i>Nature Communications</i> , 2021, 12, 5928.	5.8	58
16	Gate-controlled mid-infrared light bending with aperiodic graphene nanoribbons array. <i>Nanotechnology</i> , 2015, 26, 134002.	1.3	54
17	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. <i>ACS Nano</i> , 2017, 11, 8741-8746.	7.3	48
18	In situ nanoscale imaging of moiré superlattices in twisted van der Waals heterostructures. <i>Nature Communications</i> , 2020, 11, 4209.	5.8	43

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19	Tri-Band, Polarization-Independent Reflectarray at Terahertz Frequencies: Design, Fabrication, and Measurement. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 268-277.	2.0	39
20	Imaging polarimetry through metasurface polarization gratings. Optics Express, 2022, 30, 9389.	1.7	34
21	Predicting Input Impedance and Efficiency of Graphene Reconfigurable Dipoles Using a Simple Circuit Model. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 313-316.	2.4	32
22	Magnetoplasmonic enhancement of Faraday rotation in patterned graphene metasurfaces. Physical Review B, 2018, 97, .	1.1	27
23	Excitation of Strong Localized Surface Plasmon Resonances in Highly Metallic Titanium Nitride Nano-Antennas for Stable Performance at Elevated Temperatures. ACS Applied Nano Materials, 2019, 2, 3444-3452.	2.4	27
24	Radio frequency transmitter based on a laser frequency comb. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9181-9185.	3.3	26
25	Steep-Slope Metal-Insulator-Transition VO ₂ Switches With Temperature-Stable High Q . IEEE Electron Device Letters, 2015, 36, 972-974.	2.2	25
26	Graphene Quantum Capacitors for High Frequency Tunable Analog Applications. Nano Letters, 2016, 16, 4746-4753.	4.5	20
27	Theoretical Limits on the Efficiency of Reconfigurable and Nonreciprocal Graphene Antennas. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1549-1552.	2.4	19
28	Remote structuring of near-field landscapes. Science, 2020, 369, 436-440.	6.0	17
29	Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy. ACS Photonics, 2018, 5, 1196-1201.	3.2	15
30	Ultrahigh Angular Selectivity of Disorder-Engineered Metasurfaces. ACS Photonics, 2020, 7, 991-1000.	3.2	15
31	Introducing Berry phase gradients along the optical path via propagation-dependent polarization transformations. Nanophotonics, 2022, 11, 713-725.	2.9	14
32	Imaging of Ultra-Confined Phonon Polaritons in Hexagonal Boron Nitride on Gold. , 2018, , .		1
33	High Q-factor resonators and nanoantennas based on phonon polaritons in van der Waals materials. , 2020, , .		1
34	Negative Refraction Based on Guided-Mode Assisted Meta-Gratings. , 2018, , .		0
35	Low Voltage Imaging of Quantum Materials Imaging the Surface Plasmon Polaritons in Chalcogenides. Microscopy and Microanalysis, 2019, 25, 460-461.	0.2	0
36	Polariton Meta-Optics with Phase-Change Materials. , 2019, , .		0

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37	Metasurface-based external cavity diode laser. , 2020, , .		0