

Mario Agio

List of Publications by Year in descending order

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79
papers

2,292
citations

236925

25
h-index

223800

46
g-index

83
all docs

83
docs citations

83
times ranked

2918
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of plasmonic nanoantennae for enhancing spontaneous emission. <i>Optics Letters</i> , 2007, 32, 1623.	3.3	249
2	Deep-UV Surface-Enhanced Resonance Raman Scattering of Adenine on Aluminum Nanoparticle Arrays. <i>Journal of the American Chemical Society</i> , 2012, 134, 1966-1969.	13.7	207
3	Photophysics of single silicon vacancy centers in diamond: implications for single photon emission. <i>Optics Express</i> , 2012, 20, 19956.	3.4	143
4	Optical Antennas. , 2013, , .		141
5	Optical antennas as nanoscale resonators. <i>Nanoscale</i> , 2012, 4, 692-706.	5.6	112
6	Highly Efficient Interfacing of Guided Plasmons and Photons in Nanowires. <i>Nano Letters</i> , 2009, 9, 3756-3761.	9.1	102
7	Metallodielectric Hybrid Antennas for Ultrastrong Enhancement of Spontaneous Emission. <i>Physical Review Letters</i> , 2012, 108, 233001.	7.8	102
8	Contour-path effective permittivities for the two-dimensional finite-difference time-domain method. <i>Optics Express</i> , 2005, 13, 10367.	3.4	95
9	Coherent Interaction of Light with a Metallic Structure Coupled to a Single Quantum Emitter: From Superabsorption to Cloaking. <i>Physical Review Letters</i> , 2013, 110, 153605.	7.8	72
10	Intrinsic diffraction losses in photonic crystal waveguides with line defects. <i>Applied Physics Letters</i> , 2003, 82, 2011-2013.	3.3	61
11	Fluorescence Enhancement with the Optical (Bi-) Conical Antenna. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7372-7377.	3.1	59
12	Plasmon spectra of nanospheres under a tightly focused beam. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 651.	2.1	56
13	Ultrabright single-photon source on diamond with electrical pumping at room and high temperatures. <i>New Journal of Physics</i> , 2016, 18, 073012.	2.9	51
14	Optical properties and diffraction effects in opal photonic crystals. <i>Physical Review E</i> , 2006, 74, 036603.	2.1	49
15	Tailoring the excitation of localized surface plasmon-polariton resonances by focusing radially-polarized beams. <i>Optics Express</i> , 2009, 17, 117.	3.4	46
16	Dispersive contour-path algorithm for the two-dimensional finite-difference time-domain method. <i>Optics Express</i> , 2008, 16, 7397.	3.4	42
17	The Purcell factor of nanoresonators. <i>Nature Photonics</i> , 2013, 7, 674-675.	31.4	41
18	Beaming light from a quantum emitter with a planar optical antenna. <i>Light: Science and Applications</i> , 2017, 6, e16245-e16245.	16.6	41

#	ARTICLE	IF	CITATIONS
19	Nanofocusing radially-polarized beams for high-throughput funneling of optical energy to the near field. <i>Optics Express</i> , 2010, 18, 10878.	3.4	38
20	Complete photonic band gap in a two-dimensional chessboard lattice. <i>Physical Review B</i> , 2000, 61, 15519-15522.	3.2	34
21	Optical properties of silicon-vacancy color centers in diamond created by ion implantation and post-annealing. <i>Diamond and Related Materials</i> , 2018, 84, 196-203.	3.9	32
22	Gap maps, diffraction losses, and exciton-polaritons in photonic crystal slabs. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2004, 2, 103-110.	2.0	31
23	Robust luminescence of the silicon-vacancy center in diamond at high temperatures. <i>AIP Advances</i> , 2015, 5, .	1.3	31
24	Enhancement of the intrinsic fluorescence of adenine using aluminum nanoparticle arrays. <i>Optics Express</i> , 2015, 23, 24719.	3.4	28
25	Highly efficient light extraction and directional emission from large refractive-index materials with a planar Yagi-Uda antenna. <i>Optical Materials Express</i> , 2017, 7, 1634.	3.0	27
26	Silver high-aspect-ratio micro- and nanoimprinting for optical applications. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	25
27	Large Suppression of Quantum Fluctuations of Light from a Single Emitter by an Optical Nanostructure. <i>Physical Review Letters</i> , 2014, 113, 263605.	7.8	25
28	Dynamics of Single-Photon Emission from Electrically Pumped Color Centers. <i>Physical Review Applied</i> , 2017, 8, .	3.8	25
29	Towards deep-UV surface-enhanced resonance Raman spectroscopy of explosives: ultrasensitive, real-time and reproducible detection of TNT. <i>Analyst, The</i> , 2015, 140, 5671-5677.	3.5	24
30	Magnetic metamaterials in the blue range using aluminum nanostructures. <i>Optics Letters</i> , 2010, 35, 1656.	3.3	23
31	Dispersive contour-path finite-difference time-domain algorithm for modeling surface plasmon polaritons at flat interfaces. <i>Optics Express</i> , 2006, 14, 11330.	3.4	22
32	Ministop bands in single-defect photonic crystal waveguides. <i>Physical Review E</i> , 2001, 64, 055603.	2.1	21
33	Scanning near-field optical coherent spectroscopy of single molecules at 14K. <i>Optics Letters</i> , 2007, 32, 1420.	3.3	21
34	Exciton-polaritons and nanoscale cavities in photonic crystal slabs. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2197-2209.	1.5	18
35	Plasmon-Assisted Suppression of Surface Trap States and Enhanced Band-Edge Emission in a Bare CdTe Quantum Dot. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2874-2878.	4.6	18
36	Metal nanoparticles in strongly confined beams: transmission, reflection and absorption. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	1.9	16

#	ARTICLE	IF	CITATIONS
37	Efficient coupling of single photons to single plasmons. Optics Express, 2010, 18, 13829.	3.4	16
38	Impurity modes in a two-dimensional photonic crystal: coupling efficiency and Q factor. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 2037.	2.1	12
39	Plasmonic Gold Nanocones in the Near-Infrared for Quantum Nano-Optics. Advanced Optical Materials, 2017, 5, 1700586.	7.3	12
40	The center for production of single-photon emitters at the electrostatic-deflector line of the Tandem accelerator of LABEC (Florence). Nuclear Instruments & Methods in Physics Research B, 2018, 422, 31-40.	1.4	11
41	Silicon-vacancy color centers in phosphorus-doped diamond. Diamond and Related Materials, 2020, 105, 107797.	3.9	10
42	Light scattering under nanofocusing: Towards coherent nanoscopies. Optics Communications, 2012, 285, 3383-3389.	2.1	9
43	Kinetics of single-photon emission from electrically pumped NV centers in diamond. AIP Conference Proceedings, 2017, , .	0.4	9
44	Planar antenna designs for efficient coupling between a single emitter and an optical fiber. Optics Express, 2019, 27, 30830.	3.4	9
45	Ultrafast coherent nanoscopy. Molecular Physics, 2013, 111, 3003-3012.	1.7	8
46	Optical properties of silicon-implanted polycrystalline diamond membranes. Carbon, 2021, 174, 295-304.	10.3	8
47	Quantum theory of photonic crystal polaritons. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 446-449.	0.8	7
48	Optical Detection of Very Small Nonfluorescent Nanoparticles. Chimia, 2006, 60, 761-764.	0.6	7
49	Engineering gold nano-antennae to enhance the emission of quantum emitters. , 2007, , .		7
50	Ultrafast single-photon detection at high repetition rates based on optical Kerr gates under focusing. Optics Letters, 2021, 46, 560.	3.3	6
51	Scalable Creation of Deep Silicon-Vacancy Color Centers in Diamond by Ion Implantation through a 1- μ m Pinhole. Advanced Quantum Technologies, 2021, 4, 2100079.	3.9	5
52	Antennas, quantum optics and near-field microscopy. , 2013, , 100-121.		4
53	The squeezing spectrum of a quantum emitter coupled to an optical nanostructure. Journal of Optics (United Kingdom), 2016, 18, 024010.	2.2	4
54	Scanning planar Yagi-Uda antenna for fluorescence detection. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2528.	2.1	3

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55	Coherent spectroscopy in strongly confined optical fields. Physica B: Condensed Matter, 2012, 407, 4086-4092.	2.7	2
56	Quadrature-Squeezed from Emitters in Optical. Springer Series in Solid-state Sciences, 2017, , 25-46.	0.3	2
57	Ultrabright electrically driven single-photon source on diamond operating above room temperature. , 2017, , .		2
58	A scanning planar Yagi-Uda antenna for fluorescence detection. , 2021, , .		1
59	Ultrafast single-photon detection at high repetition rates based on optical Kerr gates under focusing: erratum. Optics Letters, 2021, 46, 5205.	3.3	1
60	Exploring ultrafast single-photon emission of silicon-vacancy color centers in diamond nano-membranes coupled with gold nano-cones. , 2019, , .		1
61	SEPSIS biomarker detection through fiber-based planar antennas (Conference Presentation). , 2020, , .		1
62	Focused Gaussian beam in the paraxial approximation. Optics Letters, 2020, 45, 6752.	3.3	1
63	Highly-Efficient Extraction of Single Photons from Single SiV Centers in Diamond Using Plasmonic Nanoantenna. , 2020, , .		1
64	Biosensing with a scanning planar Yagi-Uda antenna. Biomedical Optics Express, 2022, 13, 539.	2.9	1
65	Optical spectroscopy of silicon-on-insulator waveguide photonic crystals. , 2005, , .		0
66	Near Unity Conversion between Guided Photons and Surface Plasmon-Polaritons. , 2009, , .		0
67	Perfect Reflection of Light by a Dipolar Emitter. , 2009, , .		0
68	Coupling light to a localized surface plasmon-polariton. Proceedings of SPIE, 2009, , .	0.8	0
69	TaCoNa-Photonics 2009. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 209.	2.0	0
70	Ultrafast coupling of an emitter to a plasmonic antenna. , 2011, , .		0
71	Metallodielectric optical antennas for ultrabright single-photon sources. , 2012, , .		0
72	Nanophotonics and quantum optics. , 2014, , .		0

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73	Planar Yagi-Uda antennas for highly efficient light extraction and directional light emission. , 2017, , .		0
74	Ultrafast Single-Photon Detection based on Optical Kerr Gates. , 2021, , .		0
75	Light-matter interaction in complex photonics systems: introduction. Journal of the Optical Society of America B: Optical Physics, 2021, 38, LM11.	2.1	0
76	Metallodielectric optical antennas for enhancing and directing spontaneous emission. , 2012, , .		0
77	Metallodielectric Hybrid Optical Antennas for Ultrabright and Directional Single Photon Emission. , 2012, , .		0
78	Planar optical antenna to direct light emission. , 2016, , .		0
79	Plasmonic Nanoantenna for Single-Photon Sources on Diamond: Pursuing 100% Collection Efficiency. , 2018, , .		0