

Alessandro Alabastri

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

2,336
citations

26
h-index

47
g-index

89
ext. papers

3,017
ext. citations

10.7
avg, IF

5.06
L-index

#	Paper	IF	Citations
72	Nanophotonics-enabled solar membrane distillation for off-grid water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6936-6941	11.5	227
71	Plasmon-induced selective carbon dioxide conversion on earth-abundant aluminum-cuprous oxide antenna-reactor nanoparticles. <i>Nature Communications</i> , 2017 , 8, 27	17.4	220
70	Hot-electron nanoscopy using adiabatic compression of surface plasmons. <i>Nature Nanotechnology</i> , 2013 , 8, 845-52	28.7	205
69	Nanogapped Au Antennas for Ultrasensitive Surface-Enhanced Infrared Absorption Spectroscopy. <i>Nano Letters</i> , 2017 , 17, 5768-5774	11.5	131
68	Response to Comment on "Quantifying hot carrier and thermal contributions in plasmonic photocatalysis". <i>Science</i> , 2019 , 364,	33.3	102
67	Molding of Plasmonic Resonances in Metallic Nanostructures: Dependence of the Non-Linear Electric Permittivity on System Size and Temperature. <i>Materials</i> , 2013 , 6, 4879-4910	3.5	89
66	High-performance and site-directed in utero electroporation by a triple-electrode probe. <i>Nature Communications</i> , 2012 , 3, 960	17.4	85
65	Challenges in Plasmonic Catalysis. <i>ACS Nano</i> , 2020 ,	16.7	77
64	Direct Synthesis of Carbon-Doped TiO ₂ -Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25139-46	9.5	58
63	Selective Targeting of Neurons with Inorganic Nanoparticles: Revealing the Crucial Role of Nanoparticle Surface Charge. <i>ACS Nano</i> , 2017 , 11, 6630-6640	16.7	57
62	How To Identify Plasmons from the Optical Response of Nanostructures. <i>ACS Nano</i> , 2017 , 11, 7321-7335	16.7	54
61	Combining Solar Steam Processing and Solar Distillation for Fully Off-Grid Production of Cellulosic Bioethanol. <i>ACS Energy Letters</i> , 2017 , 2, 8-13	20.1	52
60	Plasmon based biosensor for distinguishing different peptides mutation states. <i>Scientific Reports</i> , 2013 , 3, 1792	4.9	50
59	Plasmonic meta-electrodes allow intracellular recordings at network level on high-density CMOS-multi-electrode arrays. <i>Nature Nanotechnology</i> , 2018 , 13, 965-971	28.7	49
58	Solar thermal desalination as a nonlinear optical process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13182-13187	11.5	48
57	Pushing the high-energy limit of plasmonics. <i>ACS Nano</i> , 2014 , 8, 9239-47	16.7	46
56	Surface plasmon polariton compression through radially and linearly polarized source. <i>Optics Letters</i> , 2012 , 37, 545-7	3	42

55	3D vertical nanostructures for enhanced infrared plasmonics. <i>Scientific Reports</i> , 2015 , 5, 16436	4.9	40
54	Nanoporous Metals: From Plasmonic Properties to Applications in Enhanced Spectroscopy and Photocatalysis. <i>ACS Nano</i> , 2021 , 15, 6038-6060	16.7	38
53	High Temperature Nanoplasmonics: The Key Role of Nonlinear Effects. <i>ACS Photonics</i> , 2015 , 2, 115-120	6.3	37
52	Fully analytical description of adiabatic compression in dissipative polaritonic structures. <i>Physical Review B</i> , 2012 , 86,	3.3	32
51	Biosensor for Point-of-Care Analysis of Immunoglobulins in Urine by Metal Enhanced Fluorescence from Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3753-3762	9.5	32
50	Dynamics of Strong Coupling between J-Aggregates and Surface Plasmon Polaritons in Subwavelength Hole Arrays. <i>Advanced Functional Materials</i> , 2016 , 26, 6198-6205	15.6	30
49	Tuning the Composition of Alloy Nanoparticles Through Laser Mixing: The Role of Surface Plasmon Resonance. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12810-12818	3.8	29
48	Broadband absorption enhancement in plasmonic nanoshells-based ultrathin microcrystalline-Si solar cells. <i>Scientific Reports</i> , 2016 , 6, 24539	4.9	28
47	Plasmonic Heating in Au Nanowires at Low Temperatures: The Role of Thermal Boundary Resistance. <i>ACS Nano</i> , 2016 , 10, 6972-9	16.7	28
46	Extraordinary Light-Induced Local Angular Momentum near Metallic Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 4835-46	16.7	25
45	Atomic Scale Photodetection Enabled by a Memristive Junction. <i>ACS Nano</i> , 2018 , 12, 6706-6713	16.7	24
44	Transient optical symmetry breaking for ultrafast broadband dichroism in plasmonic metasurfaces. <i>Nature Photonics</i> , 2020 , 14, 723-727	33.9	21
43	Resonant energy transfer enhances solar thermal desalination. <i>Energy and Environmental Science</i> , 2020 , 13, 968-976	35.4	20
42	Plasmon Controlled Shaping of Metal Nanoparticle Aggregates by Femtosecond Laser-Induced Melting. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5002-5008	6.4	19
41	Controlling the Heat Dissipation in Temperature-Matched Plasmonic Nanostructures. <i>Nano Letters</i> , 2017 , 17, 5472-5480	11.5	19
40	Perovskite Nanopillar Array Based Tandem Solar Cell. <i>ACS Photonics</i> , 2017 , 4, 2025-2035	6.3	18
39	Solar steam generation on scalable ultrathin thermoplasmonic TiN nanocavity arrays. <i>Nano Energy</i> , 2021 , 83, 105828	17.1	18
38	Metallic Nanoporous Aluminum-Magnesium Alloy for UV-Enhanced Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20287-20296	3.8	16

37	Optical phonon modes in ordered core-shell CdSe/CdS nanorod arrays. <i>Physical Review B</i> , 2012 , 85,	3.3	16
36	Interband Transitions Are More Efficient Than Plasmonic Excitation in the Ultrafast Melting of Electromagnetically Coupled Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16943-16950	3.8	15
35	Silica diatom shells tailored with Au nanoparticles enable sensitive analysis of molecules for biological, safety and environment applications. <i>Nanoscale Research Letters</i> , 2018 , 13, 94	5	15
34	Controlling Light, Heat, and Vibrations in Plasmonics and Phononics. <i>Advanced Optical Materials</i> , 2020 , 8, 2001225	8.1	15
33	Metal enhanced fluorescence on super-hydrophobic clusters of gold nanoparticles. <i>Microelectronic Engineering</i> , 2017 , 175, 7-11	2.5	12
32	Light-trapping in photon enhanced thermionic emitters. <i>Optics Express</i> , 2015 , 23, A1220-35	3.3	12
31	Direct determination of the resonance properties of metallic conical nanoantennas. <i>Optics Letters</i> , 2014 , 39, 571-3	3	12
30	EDNA through Porous Materials Surface-Enhanced Raman Scattering in a Simple Plasmonic Nanopore. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22663-22670	3.8	12
29	A 3D Plasmonic Antenna-Reactor for Nanoscale Thermal Hotspots and Gradients. <i>ACS Nano</i> , 2021 , 15, 8761-8769	16.7	12
28	Exploiting Evanescent Field Polarization for Giant Chiroptical Modulation from Achiral Gold Half-Rings. <i>ACS Nano</i> , 2018 , 12, 11657-11663	16.7	12
27	Quantifying Remote Heating from Propagating Surface Plasmon Polaritons. <i>Nano Letters</i> , 2017 , 17, 5646-5652	16.5	10
26	Interplay between electric and magnetic effect in adiabatic polaritonic systems. <i>Optics Express</i> , 2013 , 21, 7538-48	3.3	10
25	Giant photothermoelectric effect in silicon nanoribbon photodetectors. <i>Light: Science and Applications</i> , 2020 , 9, 120	16.7	10
24	Opto-electronic memristors: Prospects and challenges in neuromorphic computing. <i>Applied Physics Letters</i> , 2020 , 117, 230502	3.4	9
23	Thermoplasmonic Effect of Surface-Enhanced Infrared Absorption in Vertical Nanoantenna Arrays. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13072-13081	3.8	9
22	Extraordinary Enhancement of Quadrupolar Transitions Using Nanostructured Graphene. <i>ACS Photonics</i> , 2018 , 5, 3282-3290	6.3	9
21	Galvanic Replacement Reaction as a Route to Prepare Nanoporous Aluminum for UV Plasmonics. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
20	Polarized evanescent waves reveal trochoidal dichroism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16143-16148	11.5	8

19	Plasmonic nanoparticle-based epoxy photocuring: A deeper look. <i>Materials Today</i> , 2019 , 27, 14-20	21.8	8
18	Three-dimensional printing of complex graphite structures. <i>Carbon</i> , 2021 , 181, 260-269	10.4	7
17	All-Optically Reconfigurable Plasmonic Metagrating for Ultrafast Diffraction Management. <i>Nano Letters</i> , 2021 , 21, 1345-1351	11.5	7
16	Enhanced broadband optical transmission in metallized woodpiles. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 749-753	2.6	6
15	Photoinduced Temperature Gradients in Sub-Wavelength Plasmonic Structures: The Thermoplasmonics of Nanocones. <i>Advanced Optical Materials</i> , 2020 , 8, 2000568	8.1	5
14	Optimization of surface plasmon polariton generation in a nanocone through linearly polarized laser beams. <i>Microelectronic Engineering</i> , 2012 , 97, 204-207	2.5	5
13	Transforming diatomaceous earth into sensing devices by surface modification with gold nanoparticles. <i>Micro and Nano Engineering</i> , 2019 , 2, 29-34	3.4	4
12	Increased performance in genetic manipulation by modeling the dielectric properties of the rodent brain. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1615-8	0.9	3
11	Flow-Driven Resonant Energy Systems. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
10	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100017	8.3	2
9	High-Frequency Light Rectification by Nanoscale Plasmonic Conical Antenna in Point-Contact-Insulator-Metal Architecture. <i>Advanced Energy Materials</i> , 2103785	21.8	2
8	Surface enhanced thermo lithography. <i>Microelectronic Engineering</i> , 2017 , 174, 52-58	2.5	1
7	Nanoscale thermal gradients activated by antenna-enhanced molecular absorption in the mid-infrared. <i>Applied Physics Letters</i> , 2019 , 114, 023105	3.4	1
6	Tuning temperature gradients in subwavelength plasmonic nanocones with tilted illumination. <i>Optics Letters</i> , 2020 , 45, 5472-5475	3	1
5	Strong Coupling: Dynamics of Strong Coupling between J-Aggregates and Surface Plasmon Polaritons in Subwavelength Hole Arrays (Adv. Funct. Mater. 34/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6197-6197	15.6	1
4	Utilizing the Broad Electromagnetic Spectrum and Unique Nanoscale Properties for Chemical-Free Water Treatment. <i>Current Opinion in Chemical Engineering</i> , 2021 , 33, 100709-100709	5.4	0
3	All-Optical Reconfiguration of Ultrafast Dichroism in Gold Metasurfaces. <i>Advanced Optical Materials</i> , 2108549		0
2	Plasmonic Nanostructures for Nanoscale Energy Delivery and Biosensing: Design Fabrication and Characterization 2014 , 451-502		

- 1 Plasmonics and Super-Hydrophobicity: A New Class of Nano-Bio-Devices. *Challenges and Advances in Computational Chemistry and Physics*, **2013**, 501-524 0.7