

Davy GÃ©rard

List of Publications by Year in descending order

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64
papers

2,310
citations

218381

26
h-index

214527

47
g-index

67
all docs

67
docs citations

67
times ranked

2886
citing authors

#	ARTICLE	IF	CITATIONS
1	Aluminium plasmonics. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 184001.	1.3	218
2	Lattice modes and plasmonic linewidth engineering in gold and aluminum nanoparticle arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 691.	0.9	156
3	Crucial Role of the Adhesion Layer on the Plasmonic Fluorescence Enhancement. <i>ACS Nano</i> , 2009, 3, 2043-2048.	7.3	152
4	Three-dimensional subwavelength confinement of light with dielectric microspheres. <i>Optics Express</i> , 2009, 17, 2089.	1.7	124
5	Emission and excitation contributions to enhanced single molecule fluorescence by gold nanometric apertures. <i>Optics Express</i> , 2008, 16, 3008.	1.7	122
6	High-Resolution Imaging and Spectroscopy of Multipolar Plasmonic Resonances in Aluminum Nanoantennas. <i>Nano Letters</i> , 2014, 14, 5517-5523.	4.5	101
7	Strong electromagnetic confinement near dielectric microspheres to enhance single-molecule fluorescence. <i>Optics Express</i> , 2008, 16, 15297.	1.7	97
8	Nanoaperture-enhanced fluorescence: Towards higher detection rates with plasmonic metals. <i>Physical Review B</i> , 2008, 77, .	1.1	88
9	Localized surface plasmon resonances in the ultraviolet from large scale nanostructured aluminum films. <i>Optical Materials Express</i> , 2013, 3, 954.	1.6	80
10	Plasmonic Breathing and Edge Modes in Aluminum Nanotriangles. <i>ACS Photonics</i> , 2017, 4, 1257-1263.	3.2	76
11	Efficient excitation and collection of single-molecule fluorescence close to a dielectric microsphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1473.	0.9	65
12	An angle-independent Frequency Selective Surface in the optical range. <i>Optics Express</i> , 2006, 14, 11945.	1.7	63
13	FRIPON: a worldwide network to track incoming meteoroids. <i>Astronomy and Astrophysics</i> , 2020, 644, A53.	2.1	58
14	Local Observation and Spectroscopy of Optical Modes in an Active Photonic-Crystal Microcavity. <i>Physical Review Letters</i> , 2005, 94, 113907.	2.9	55
15	Subwavelength focusing of surface acoustic waves generated by an annular interdigital transducer. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	53
16	Local Optical Chirality Induced by Near-Field Mode Interference in Achiral Plasmonic Metamolecules. <i>Nano Letters</i> , 2020, 20, 509-516.	4.5	53
17	Analysis of the Bloch mode spectra of surface polaritonic crystals in the weak and strong coupling regimes: grating-enhanced transmission at oblique incidence and suppression of SPP radiative losses. <i>Optics Express</i> , 2004, 12, 3652.	1.7	48
18	Dual-color fluorescence cross-correlation spectroscopy in a single nanoaperture : towards rapid multicomponent screening at high concentrations. <i>Optics Express</i> , 2006, 14, 12206.	1.7	47

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19	Electrically Switchable, Polarization-Sensitive Encryption Based on Aluminum Nanoaperture Arrays Integrated with Polymer-Dispersed Liquid Crystals. <i>Nano Letters</i> , 2021, 21, 7183-7190.	4.5	46
20	Disposable Microscope Objective Lenses for Fluorescence Correlation Spectroscopy Using Latex Microspheres. <i>Analytical Chemistry</i> , 2008, 80, 6800-6804.	3.2	44
21	Nanoaperture-Enhanced Signal-to-Noise Ratio in Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2009, 81, 834-839.	3.2	44
22	Plasmonic engineering of spontaneous emission from silicon nanocrystals. <i>Scientific Reports</i> , 2013, 3, 2672.	1.6	38
23	Single Emitter Fluorescence Enhancement with Surface Lattice Resonances. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13280-13289.	1.5	38
24	Near-field probing of active photonic-crystal structures. <i>Optics Letters</i> , 2002, 27, 173.	1.7	33
25	Reduction of Plasmon Damping in Aluminum Nanoparticles with Rapid Thermal Annealing. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7429-7434.	1.5	30
26	Field enhancement in a circular aperture surrounded by a single channel groove. <i>Optics Express</i> , 2008, 16, 2276.	1.7	28
27	Metasurface-Enabled High-Resolution Liquid-Crystal Alignment for Display and Modulator Applications. <i>Laser and Photonics Reviews</i> , 2022, 16, 2100396.	4.4	28
28	Experimental demonstration of Bloch mode parity change in photonic crystal waveguide. <i>Applied Physics Letters</i> , 2004, 85, 2682-2684.	1.5	25
29	Intense Bessel-like beams arising from pyramid-shaped microtips. <i>Optics Letters</i> , 2012, 37, 1274.	1.7	25
30	Self-assembly of metallic nanoparticles into plasmonic rings. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	24
31	Off-Resonant Optical Excitation of Gold Nanorods: Nanoscale Imprint of Polarization Surface Charge Distribution. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 7-11.	2.1	22
32	Chiral plasmonics and enhanced chiral light-matter interactions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	20
33	Modulation of the extraordinary optical transmission by surface acoustic waves. <i>Physical Review B</i> , 2007, 76, .	1.1	19
34	Synthesis and SERS Application of SiO ₂ @Au Nanoparticles. <i>Plasmonics</i> , 2015, 10, 791-796.	1.8	16
35	Nanoscale Switching of Near-Infrared Hot Spots in Plasmonic Oligomers Probed by Two-Photon Absorption in Photopolymers. <i>ACS Photonics</i> , 2018, 5, 918-928.	3.2	16
36	Collective effects and coupling phenomena in resonant optical metasurfaces: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, CEC1.	0.9	16

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37	Subwavelength imaging of field confinement in a waveguide-integrated photonic crystal cavity. <i>Journal of Applied Physics</i> , 2005, 98, 086109.	1.1	15
38	Optical polarization analogue in free electron beams. <i>Nature Physics</i> , 2021, 17, 598-603.	6.5	15
39	Near-field observation of subwavelength confinement of photoluminescence by a photonic crystal microcavity. <i>Optics Letters</i> , 2006, 31, 2160.	1.7	14
40	Highly Stable, Pretilted Homeotropic Alignment of Liquid Crystals Enabled by In Situ Self-Assembled, Dual-Wavelength Photoalignment. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2017-2025.	2.0	14
41	Local field enhancement and thermoplasmonics in multimodal aluminum structures. <i>Physical Review B</i> , 2017, 96, .	1.1	11
42	Hybrid nanostructured plasmonic electrodes for flexible organic light-emitting diodes. <i>Nanotechnology</i> , 2020, 31, 375203.	1.3	9
43	Enhanced fluorescence from metal nanoapertures: physical characterizations and biophotonic applications. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
44	Special issue on aluminium plasmonics. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 180301.	1.3	8
45	Surface roughness and substrate induced symmetry-breaking: influence on the plasmonic properties of aluminum nanostructure arrays. <i>Nanoscale</i> , 2021, 13, 1915-1926.	2.8	8
46	Detecting a Zeptogram of Pyridine with a Hybrid Plasmonicâ€“Photonic Nanosensor. <i>ACS Sensors</i> , 2019, 4, 586-594.	4.0	7
47	Aluminum Cayley trees as scalable, broadband, multiresonant optical antennas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	6
48	Colloidal Synthesis of Crystalline Aluminum Nanoparticles for UV Plasmonics. <i>ACS Photonics</i> , 2022, 9, 880-887.	3.2	6
49	Biophotonics applications of nanometric apertures. <i>International Journal of Materials and Product Technology</i> , 2009, 34, 488.	0.1	5
50	Holographically fabricated, highly reflective nanoporous polymeric distributed Bragg reflectors with red, green, and blue colors [Invited]. <i>Chinese Optics Letters</i> , 2020, 18, 080007.	1.3	5
51	Suppression of radiative losses of surface polaritons on nanostructured thin metal films. <i>Optics Letters</i> , 2005, 30, 780.	1.7	4
52	Band-edge emission enhancement in sputtered ZnO thin films with ultraviolet surface lattice resonances. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	3
53	P4L-3 Anisotropic Wave-Surface Shaped Annular Interdigital Transducer. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007, , .	0.0	2
54	Ultra-sensitive plasmonic nanosensors for biochemical detection. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1

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55	Bloch mode coupling investigation in silicon-on-insulator W1 photonic crystal waveguide. , 2004, , .		0
56	Far- and near-field characterization of a photonic-crystal-based microcavity on silicon-on-insulator. , 2004, , .		0
57	Self-assembled plasmonic nanorings. , 2012, , .		0
58	Plasmon-enhanced luminescence from silicon nanocrystals. , 2013, , .		0
59	CW laserâ€initiated formation of nanoâ€Si crystals in glassâ€metal nanostructures. Journal of the American Ceramic Society, 2020, 103, 4625-4631.	1.9	0
60	SUB-WAVELENGTH IMAGING OF LIGHT CONFINEMENT AND PROPAGATION IN SOI BASED PHOTONIC CRYSTAL DEVICES. , 2006, , .		0
61	Plasmonic axicon micro-lenses for chemical sensing. , 2012, , .		0
62	Enhancement of silicon nanocrystals luminescence by plasmonic structures for photovoltaic application. , 2012, , .		0
63	Aluminum nanostructures for ultraviolet plasmonics. , 2017, , .		0
64	Designing surface lattice resonances to enhance the luminescence from silicon nanocrystals. , 2018, , .		0