

Davy GÃ©rard

List of Publications by Year in descending order

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64
papers

2,310
citations

218381

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214527

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docs citations

67
times ranked

2886
citing authors

#	ARTICLE	IF	CITATIONS
1	Metasurface-Enabled High-Resolution Liquid-Crystal Alignment for Display and Modulator Applications. <i>Laser and Photonics Reviews</i> , 2022, 16, 2100396.	4.4	28
2	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
3	Colloidal Synthesis of Crystalline Aluminum Nanoparticles for UV Plasmonics. <i>ACS Photonics</i> , 2022, 9, 880-887.	3.2	6
4	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
5	Optical polarization analogue in free electron beams. <i>Nature Physics</i> , 2021, 17, 598-603.	6.5	15
6	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
7	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
8	Chiral plasmonics and enhanced chiral light-matter interactions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	20
9	Local Optical Chirality Induced by Near-Field Mode Interference in Achiral Plasmonic Metamolecules. <i>Nano Letters</i> , 2020, 20, 509-516.	4.5	53
10	Hybrid nanostructured plasmonic electrodes for flexible organic light-emitting diodes. <i>Nanotechnology</i> , 2020, 31, 375203.	1.3	9
11	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
12	CW laser-initiated formation of nano-Si crystals in glass-metal nanostructures. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4625-4631.	1.9	0
13	FRIPON: a worldwide network to track incoming meteoroids. <i>Astronomy and Astrophysics</i> , 2020, 644, A53.	2.1	58
14	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
15	Detecting a Zeptogram of Pyridine with a Hybrid Plasmonic-Photonic Nanosensor. <i>ACS Sensors</i> , 2019, 4, 586-594.	4.0	7
16	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
17	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
18	Designing surface lattice resonances to enhance the luminescence from silicon nanocrystals. , 2018, , .		0

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19	Reduction of Plasmon Damping in Aluminum Nanoparticles with Rapid Thermal Annealing. Journal of Physical Chemistry C, 2017, 121, 7429-7434.	1.5	30
20	Plasmonic Breathing and Edge Modes in Aluminum Nanotriangles. ACS Photonics, 2017, 4, 1257-1263.	3.2	76
21	Single Emitter Fluorescence Enhancement with Surface Lattice Resonances. Journal of Physical Chemistry C, 2017, 121, 13280-13289.	1.5	38
22	Local field enhancement and thermoplasmonics in multimodal aluminum structures. Physical Review B, 2017, 96, .	1.1	11
23	Lattice modes and plasmonic linewidth engineering in gold and aluminum nanoparticle arrays. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 691.	0.9	156
24	Aluminum nanostructures for ultraviolet plasmonics. , 2017, , .		0
25	Synthesis and SERS Application of SiO ₂ @Au Nanoparticles. Plasmonics, 2015, 10, 791-796.	1.8	16
26	Special issue on aluminium plasmonics. Journal Physics D: Applied Physics, 2015, 48, 180301.	1.3	8
27	Aluminium plasmonics. Journal Physics D: Applied Physics, 2015, 48, 184001.	1.3	218
28	High-Resolution Imaging and Spectroscopy of Multipolar Plasmonic Resonances in Aluminum Nanoantennas. Nano Letters, 2014, 14, 5517-5523.	4.5	101
29	Localized surface plasmon resonances in the ultraviolet from large scale nanostructured aluminum films. Optical Materials Express, 2013, 3, 954.	1.6	80
30	Plasmonic engineering of spontaneous emission from silicon nanocrystals. Scientific Reports, 2013, 3, 2672.	1.6	38
31	Plasmon-enhanced luminescence from silicon nanocrystals. , 2013, , .		0
32	Intense Bessel-like beams arising from pyramid-shaped microtips. Optics Letters, 2012, 37, 1274.	1.7	25
33	Self-assembled plasmonic nanorings. , 2012, , .		0
34	Plasmonic axicon micro-lenses for chemical sensing. , 2012, , .		0
35	Enhancement of silicon nanocrystals luminescence by plasmonic structures for photovoltaic application. , 2012, , .		0
36	Off-Resonant Optical Excitation of Gold Nanorods: Nanoscale Imprint of Polarization Surface Charge Distribution. Journal of Physical Chemistry Letters, 2011, 2, 7-11.	2.1	22

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37	Self-assembly of metallic nanoparticles into plasmonic rings. Applied Physics Letters, 2011, 99, .	1.5	24
38	Ultra-sensitive plasmonic nanosensors for biochemical detection. Proceedings of SPIE, 2011, , .	0.8	1
39	Enhanced fluorescence from metal nanoapertures: physical characterizations and biophotonic applications. Proceedings of SPIE, 2010, , .	0.8	8
40	Crucial Role of the Adhesion Layer on the Plasmonic Fluorescence Enhancement. ACS Nano, 2009, 3, 2043-2048.	7.3	152
41	Nanoaperture-Enhanced Signal-to-Noise Ratio in Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2009, 81, 834-839.	3.2	44
42	Efficient excitation and collection of single-molecule fluorescence close to a dielectric microsphere. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1473.	0.9	65
43	Three-dimensional subwavelength confinement of light with dielectric microspheres. Optics Express, 2009, 17, 2089.	1.7	124
44	Biophotonics applications of nanometric apertures. International Journal of Materials and Product Technology, 2009, 34, 488.	0.1	5
45	Field enhancement in a circular aperture surrounded by a single channel groove. Optics Express, 2008, 16, 2276.	1.7	28
46	Emission and excitation contributions to enhanced single molecule fluorescence by gold nanometric apertures. Optics Express, 2008, 16, 3008.	1.7	122
47	Strong electromagnetic confinement near dielectric microspheres to enhance single-molecule fluorescence. Optics Express, 2008, 16, 15297.	1.7	97
48	Nanoaperture-enhanced fluorescence: Towards higher detection rates with plasmonic metals. Physical Review B, 2008, 77, .	1.1	88
49	Disposable Microscope Objective Lenses for Fluorescence Correlation Spectroscopy Using Latex Microspheres. Analytical Chemistry, 2008, 80, 6800-6804.	3.2	44
50	Subwavelength focusing of surface acoustic waves generated by an annular interdigital transducer. Applied Physics Letters, 2008, 92, .	1.5	53
51	P4L-3 Anisotropic Wave-Surface Shaped Annular Interdigital Transducer. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2
52	Modulation of the extraordinary optical transmission by surface acoustic waves. Physical Review B, 2007, 76, .	1.1	19
53	Near-field observation of subwavelength confinement of photoluminescence by a photonic crystal microcavity. Optics Letters, 2006, 31, 2160.	1.7	14
54	An angle-independent Frequency Selective Surface in the optical range. Optics Express, 2006, 14, 11945.	1.7	63

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55	Dual-color fluorescence cross-correlation spectroscopy in a single nanoaperture : towards rapid multicomponent screening at high concentrations. Optics Express, 2006, 14, 12206.	1.7	47
56	SUB-WAVELENGTH IMAGING OF LIGHT CONFINEMENT AND PROPAGATION IN SOI BASED PHOTONIC CRYSTAL DEVICES. , 2006, , .		0
57	Local Observation and Spectroscopy of Optical Modes in an Active Photonic-Crystal Microcavity. Physical Review Letters, 2005, 94, 113907.	2.9	55
58	Subwavelength imaging of field confinement in a waveguide-integrated photonic crystal cavity. Journal of Applied Physics, 2005, 98, 086109.	1.1	15
59	Suppression of radiative losses of surface polaritons on nanostructured thin metal films. Optics Letters, 2005, 30, 780.	1.7	4
60	Experimental demonstration of Bloch mode parity change in photonic crystal waveguide. Applied Physics Letters, 2004, 85, 2682-2684.	1.5	25
61	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. Optics Express, 2004, 12, 3652.	1.7	48
62	Bloch mode coupling investigation in silicon-on-insulator W1 photonic crystal waveguide. , 2004, , .		0
63	Far- and near-field characterization of a photonic-crystal-based microcavity on silicon-on-insulator. , 2004, , .		0
64	Near-field probing of active photonic-crystal structures. Optics Letters, 2002, 27, 173.	1.7	33