Jean-BenoÃ®t Claude

List of Publications by Year
in descending order

27 papers	597 citations	686830 13 h-index	610482 24 g-index
27 all docs	27 docs citations	27 times ranked	767 citing authors

#	Article	IF	Citations
1	All-Dielectric Color Filters Using SiGe-Based Mie Resonator Arrays. ACS Photonics, 2017, 4, 873-883.	3.2	75
2	Temperature Measurement in Plasmonic Nanoapertures Used for Optical Trapping. ACS Photonics, 2019, 6, 1763-1773.	3.2	64
3	Extending Single-Molecule FÃ¶rster Resonance Energy Transfer (FRET) Range beyond 10 Nanometers in Zero-Mode Waveguides. ACS Nano, 2019, 13, 8469-8480.	7.3	54
4	Quantifying the Role of the Surfactant and the Thermophoretic Force in Plasmonic Nano-optical Trapping. Nano Letters, 2020, 20, 8811-8817.	4.5	48
5	Deep Ultraviolet Plasmonic Enhancement of Single Protein Autofluorescence in Zero-Mode Waveguides. Nano Letters, 2019, 19, 7434-7442.	4.5	38
6	Single Photon Source from a Nanoantenna-Trapped Single Quantum Dot. Nano Letters, 2021, 21, 7030-7036.	4.5	35
7	New strategies for producing defect free SiGe strained nanolayers. Scientific Reports, 2018, 8, 2891.	1.6	30
8	â€œBlackâ€•Titania Coatings Composed of Solâ€“Gel Imprinted Mie Resonators Arrays. Advanced Functional Materials, 2017, 27, 1604924.	7.8	28
9	Hyperuniform Monocrystalline Structures by Spinodal Solid-State Dewetting. Physical Review Letters, 2020, 125, 126101.	2.9	24
10	Titaniaâ€Based Spherical Mie Resonators Elaborated by Highâ€Throughput Aerosol Spray: Single Object Investigation. Advanced Functional Materials, 2018, 28, 1801958.	7.8	22
11	Adhesion layer influence on controlling the local temperature in plasmonic gold nanoholes. Nanoscale, 2020, 12, 2524-2531.	2.8	22
12	Preventing Aluminum Photocorrosion for Ultraviolet Plasmonics. Journal of Physical Chemistry Letters, 2019, 10, 5700-5707.	2.1	16
13	Surface passivation of zero-mode waveguide nanostructures: benchmarking protocols and fluorescent labels. Scientific Reports, 2020, 10, 5235.	1.6	15
14	Ultraviolet optical horn antennas for label-free detection of single proteins. Nature Communications, 2022, 13, 1842.	5.8	14
15	Methylated Silica Surfaces Having Tapered Nipple-Dimple Nanopillar Morphologies as Robust Broad-Angle and Broadband Antireflection Coatings. ACS Applied Nano Materials, 2020, 3, 5231-5239.	2.4	13
16	Solid-state dewetting of single-crystal silicon on insulator: effect of annealing temperature and patch size. Microelectronic Engineering, 2018, 190, 1-6.	1.1	12
17	Zero-mode waveguides can be made better: fluorescence enhancement with rectangular aluminum nanoapertures from the visible to the deep ultraviolet. Nanoscale Advances, 2020, 2, 4153-4160.	2.2	12
18	Preventing Corrosion of Aluminum Metal with Nanometer-Thick Films of Al₂O₃ Capped with TiO₂ for Ultraviolet Plasmonics. ACS Applied Nano Materials, 2021, 4, 7199-7205.	2.4	12

#	Article	IF	Citations
19	Fast interaction dynamics of G-quadruplex and RGG-rich peptides unveiled in zero-mode waveguides. Nucleic Acids Research, 2021, 49, 12348-12357.	6.5	11
20	Purcell radiative rate enhancement of label-free proteins with ultraviolet aluminum plasmonics. Journal Physics D: Applied Physics, 2021, 54, 425101.	1.3	9
21	Enhanced nanoscopy of individual CsPbBr3 perovskite nanocrystals using dielectric sub-micrometric antennas. APL Materials, 2020, 8, 021109.	2.2	9
22	Large Scale Self-Organization of 2D Hexagonal Ge and Au Nanodots on Patterned TiO2 for Optoelectronic Applications. ACS Applied Nano Materials, 2019, 2, 2026-2035.	2.4	8
23	Long-Range Single-Molecule FÃ¶rster Resonance Energy Transfer between Alexa Dyes in Zero-Mode Waveguides. ACS Omega, 2020, 5, 6947-6955.	1.6	8
24	Plasmonic nano-optical trap stiffness measurements and design optimization. Nanoscale, 2021, 13, 4188-4194.	2.8	6
25	Red-luminescence band: A tool for the quality assessment of germanium and silicon nanocrystals. Applied Surface Science, 2017, 419, 476-483.	3.1	5
26	Fluorescence Brightness, Photostability, and Energy Transfer Enhancement of Immobilized Single Molecules in Zero-Mode Waveguide Nanoapertures. ACS Photonics, 2022, 9, 2109-2118.	3.2	5
27	Deterministic three-dimensional self-assembly of Si through a rimless and topology-preserving dewetting regime. Physical Review Materials, 2019, 3, .	0.9	2