

# Jean-Benoît Claude

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Ultraviolet optical horn antennas for label-free detection of single proteins. <i>Nature Communications</i> , 2022, 13, 1842.	5.8	14
2	Fluorescence Brightness, Photostability, and Energy Transfer Enhancement of Immobilized Single Molecules in Zero-Mode Waveguide Nanoapertures. <i>ACS Photonics</i> , 2022, 9, 2109-2118.	3.2	5
3	Plasmonic nano-optical trap stiffness measurements and design optimization. <i>Nanoscale</i> , 2021, 13, 4188-4194.	2.8	6
4	Preventing Corrosion of Aluminum Metal with Nanometer-Thick Films of $\text{Al}_2\text{O}_3$ Capped with $\text{TiO}_2$ for Ultraviolet Plasmonics. <i>ACS Applied Nano Materials</i> , 2021, 4, 7199-7205.	2.4	12
5	Purcell radiative rate enhancement of label-free proteins with ultraviolet aluminum plasmonics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 425101.	1.3	9
6	Single Photon Source from a Nanoantenna-Trapped Single Quantum Dot. <i>Nano Letters</i> , 2021, 21, 7030-7036.	4.5	35
7	Fast interaction dynamics of G-quadruplex and RGG-rich peptides unveiled in zero-mode waveguides. <i>Nucleic Acids Research</i> , 2021, 49, 12348-12357.	6.5	11
8	Adhesion layer influence on controlling the local temperature in plasmonic gold nanoholes. <i>Nanoscale</i> , 2020, 12, 2524-2531.	2.8	22
9	Quantifying the Role of the Surfactant and the Thermophoretic Force in Plasmonic Nano-optical Trapping. <i>Nano Letters</i> , 2020, 20, 8811-8817.	4.5	48
10	Zero-mode waveguides can be made better: fluorescence enhancement with rectangular aluminum nanoapertures from the visible to the deep ultraviolet. <i>Nanoscale Advances</i> , 2020, 2, 4153-4160.	2.2	12
11	Hyperuniform Monocrystalline Structures by Spinodal Solid-State Dewetting. <i>Physical Review Letters</i> , 2020, 125, 126101.	2.9	24
12	Methylated Silica Surfaces Having Tapered Nipple-Dimple Nanopillar Morphologies as Robust Broad-Angle and Broadband Antireflection Coatings. <i>ACS Applied Nano Materials</i> , 2020, 3, 5231-5239.	2.4	13
13	Long-Range Single-Molecule Förster Resonance Energy Transfer between Alexa Dyes in Zero-Mode Waveguides. <i>ACS Omega</i> , 2020, 5, 6947-6955.	1.6	8
14	Surface passivation of zero-mode waveguide nanostructures: benchmarking protocols and fluorescent labels. <i>Scientific Reports</i> , 2020, 10, 5235.	1.6	15
15	Enhanced nanoscopy of individual $\text{CsPbBr}_3$ perovskite nanocrystals using dielectric sub-micrometric antennas. <i>APL Materials</i> , 2020, 8, 021109.	2.2	9
16	Extending Single-Molecule Förster Resonance Energy Transfer (FRET) Range beyond 10 Nanometers in Zero-Mode Waveguides. <i>ACS Nano</i> , 2019, 13, 8469-8480.	7.3	54
17	Preventing Aluminum Photocorrosion for Ultraviolet Plasmonics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5700-5707.	2.1	16
18	Deep Ultraviolet Plasmonic Enhancement of Single Protein Autofluorescence in Zero-Mode Waveguides. <i>Nano Letters</i> , 2019, 19, 7434-7442.	4.5	38

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19	Temperature Measurement in Plasmonic Nanoapertures Used for Optical Trapping. ACS Photonics, 2019, 6, 1763-1773.	3.2	64
20	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
21	Deterministic three-dimensional self-assembly of Si through a rimless and topology-preserving dewetting regime. Physical Review Materials, 2019, 3, .	0.9	2
22	New strategies for producing defect free SiGe strained nanolayers. Scientific Reports, 2018, 8, 2891.	1.6	30
23	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
24	Titania-Based Spherical Mie Resonators Elaborated by High-Throughput Aerosol Spray: Single Object Investigation. Advanced Functional Materials, 2018, 28, 1801958.	7.8	22
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	All-Dielectric Color Filters Using SiGe-Based Mie Resonator Arrays. ACS Photonics, 2017, 4, 873-883.	3.2	75
27	“Black”-Titania Coatings Composed of Sol-Gel Imprinted Mie Resonators Arrays. Advanced Functional Materials, 2017, 27, 1604924.	7.8	28