Guillermo Acuna

List of Publications by Year
in descending order

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Version: 2024-02-01

52	2,781	236833	243529
papers	citations	25 h-index	44 g-index

55	55	55	3496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An alternative to MINFLUX that enables nanometer resolution in a confocal microscope. Light: Science and Applications, 2022, 11, .	7.7	26
2	Recent advances in plasmonic nanocavities for single-molecule spectroscopy. Nanoscale Advances, 2021, 3, 633-642.	2.2	61
3	In Situ Photothermal Response of Single Gold Nanoparticles through Hyperspectral Imaging Anti-Stokes Thermometry. ACS Nano, 2021, 15, 2458-2467.	7.3	42
4	Three-dimensional total-internal reflection fluorescence nanoscopy with nanometric axial resolution by photometric localization of single molecules. Nature Communications, 2021, 12, 517.	5.8	12
5	Addressable nanoantennas with cleared hotspots for single-molecule detection on a portable smartphone microscope. Nature Communications, 2021, 12, 950.	5.8	63
6	Determining the In-Plane Orientation and Binding Mode of Single Fluorescent Dyes in DNA Origami Structures. ACS Nano, 2021, 15, 5109-5117.	7.3	18
7	DNA Origami as Emerging Technology for the Engineering of Fluorescent and Plasmonic-Based Biosensors. Materials, 2020, 13, 2185.	1.3	27
8	Self-Assembled Nanoparticle Optical Antennas. , 2020, , 8-1-8-14.		0
9	Directing Single-Molecule Emission with DNA Origami-Assembled Optical Antennas. Nano Letters, 2019, 19, 6629-6634.	4.5	37
10	Distance Dependence of Single-Molecule Energy Transfer to Graphene Measured with DNA Origami Nanopositioners. Nano Letters, 2019, 19, 4257-4262.	4.5	40
11	Plasmon-assisted FÃ¶rster resonance energy transfer at the single-molecule level in the moderate quenching regime. Nanoscale, 2019, 11, 7674-7681.	2.8	56
12	DNAâ€Mediated Selfâ€Assembly of Plasmonic Antennas with a Single Quantum Dot in the Hot Spot. Small, 2019, 15, e1804418.	5.2	29
13	Benchmarking Smartphone Fluorescence-Based Microscopy with DNA Origami Nanobeads: Reducing the Gap toward Single-Molecule Sensitivity. ACS Omega, 2019, 4, 637-642.	1.6	49
14	DNA origami nanotools for single-molecule biosensing and superresolution microscopy. , 2019, , .		2
15	Strong plasmonic enhancement of single molecule photostability in silver dimer optical antennas. Nanophotonics, 2018, 7, 643-649.	2.9	22
16	DNA Origami Route for Nanophotonics. ACS Photonics, 2018, 5, 1151-1163.	3.2	171
17	Strong Plasmonic Enhancement of a Single Peridininâ€“Chlorophyll aâ€“Protein Complex on DNA Origami-Based Optical Antennas. ACS Nano, 2018, 12, 1650-1655.	7.3	38
18	Broadband Fluorescence Enhancement with Self-Assembled Silver Nanoparticle Optical Antennas. ACS Nano, 2017, 11, 4969-4975.	7.3	67

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19	Plasmonics Enhanced Smartphone Fluorescence Microscopy. Scientific Reports, 2017, 7, 2124.	1.6	53
20	Synergistic Combination of Unquenching and Plasmonic Fluorescence Enhancement in Fluorogenic Nucleic Acid Hybridization Probes. Nano Letters, 2017, 17, 6496-6500.	4.5	26
21	Molecule detection with sunlight. Nature Photonics, 2017, 11, 616-618.	15.6	1
22	A DNA Walker as a Fluorescence Signal Amplifier. Nano Letters, 2017, 17, 5368-5374.	4.5	104
23	Sculpting light by arranging optical components with DNA nanostructures. MRS Bulletin, 2017, 42, 936-942.	1.7	32
24	Optical Nanoantenna for Single Molecule-Based Detection of Zika Virus Nucleic Acids without Molecular Multiplication. Analytical Chemistry, 2017, 89, 13000-13007.	3.2	85
25	Functionalizing large nanoparticles for small gaps in dimer nanoantennas. New Journal of Physics, 2016, 18, 045012.	1.2	25
26	DNA Origami Nanoantennas with over 5000-fold Fluorescence Enhancement and Single-Molecule Detection at 25 Î¼M. Nano Letters, 2015, 15, 8354-8359.	4.5	198
27	Breaking the concentration limit of optical single-molecule detection. Chemical Society Reviews, 2014, 43, 1014-1028.	18.7	179
28	Quantum yield and excitation rate of single molecules close to metallic nanostructures. Nature Communications, 2014, 5, 5356.	5.8	74
29	Single-Molecule Positioning in Zeromode Waveguides by DNA Origami Nanoadapters. Nano Letters, 2014, 14, 3499-3503.	4.5	42
30	Controlled Reduction of Photobleaching in DNA Origamiâ€“Gold Nanoparticle Hybrids. Nano Letters, 2014, 14, 2831-2836.	4.5	65
31	Enhancing singleâ€molecule fluorescence with nanophotonics. FEBS Letters, 2014, 588, 3547-3552.	1.3	19
32	Placing Individual Molecules in the Center of Nanoapertures. Nano Letters, 2014, 14, 391-395.	4.5	33
33	Distance control in-between plasmonic nanoparticles via biological and polymeric spacers. Nano Today, 2013, 8, 480-493.	6.2	50
34	Angular modulation of single-molecule fluorescence by gold nanoparticles on DNA origami templates. Nanophotonics, 2013, 2, 167-172.	2.9	12
35	DNA-templated nanoantennas for single-molecule detection at elevated concentrations. Proceedings of SPIE, 2013, , .	0.8	0
36	DNA-templated nanoantennas for single-molecule detection at elevated concentrations. Journal of Biomedical Optics, 2013, 18, 065001.	1.4	9

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37	Distance Dependence of Single-Fluorophore Quenching by Gold Nanoparticles Studied on DNA Origami. ACS Nano, 2012, 6, 3189-3195.	7.3	274
38	Fluorescence Enhancement at Docking Sites of DNA-Directed Self-Assembled Nanoantennas. Science, 2012, 338, 506-510.	6.0	603
39	Probing the momentum relaxation time of charge carriers in ultrathin layers with terahertz radiation. Optics Express, 2009, 17, 17450.	1.7	19
40	Surface plasmons in terahertz metamaterials. Optics Express, 2008, 16, 18745.	1.7	61
41	Abbildung akustischer PhasenverzÃ¶gerungen mit Terahertz- und Millimeterwellen-Techniken (Mapping) Tj ETQq1 1 0.784314 rgBT /O 51-57.	0.3	1
42	Interdigitated terahertz emitters. Electronics Letters, 2008, 44, 229.	0.5	11
43	Terahertz imaging of concealed objects by acoustic phase detection. Proceedings of SPIE, 2008, , .	0.8	1
44	Concealed object detection by sensing the objects’ acoustic phase with terahertz radiation. , 2008, , .		0
45	Terahertz Near-Field Microscopy. , 2008, , 203-222.		8
46	Terahertz emission from charge transport in inhomogeneous fields. , 2008, , .		0
47	Terahertz near field microscopy of metamaterials. , 2008, , .		0
48	Interdigitated terahertz emitters. , 2007, , .		0
49	Shear force control for a terahertz near field microscope. Review of Scientific Instruments, 2007, 78, 113701.	0.6	11
50	Acoustic phase imaging with terahertz radiation. Optics Express, 2007, 15, 4427.	1.7	7
51	Millimeter wave probing of the acoustic phase for concealed object detection. Optics Express, 2007, 15, 8838.	1.7	12
52	Time-dependent induced potentials in convoy electron emission. Surface Science, 2006, 600, 4961-4965.	0.8	2