

# Guillermo Acuna

## List of Publications by Year in descending order

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52  
papers

2,781  
citations

236833

25  
h-index

243529

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence Enhancement at Docking Sites of DNA-Directed Self-Assembled Nanoantennas. <i>Science</i> , 2012, 338, 506-510.	6.0	603
2	Distance Dependence of Single-Fluorophore Quenching by Gold Nanoparticles Studied on DNA Origami. <i>ACS Nano</i> , 2012, 6, 3189-3195.	7.3	274
3	DNA Origami Nanoantennas with over 5000-fold Fluorescence Enhancement and Single-Molecule Detection at 25 $\mu$ M. <i>Nano Letters</i> , 2015, 15, 8354-8359.	4.5	198
4	Breaking the concentration limit of optical single-molecule detection. <i>Chemical Society Reviews</i> , 2014, 43, 1014-1028.	18.7	179
5	DNA Origami Route for Nanophotonics. <i>ACS Photonics</i> , 2018, 5, 1151-1163.	3.2	171
6	A DNA Walker as a Fluorescence Signal Amplifier. <i>Nano Letters</i> , 2017, 17, 5368-5374.	4.5	104
7	Optical Nanoantenna for Single Molecule-Based Detection of Zika Virus Nucleic Acids without Molecular Multiplication. <i>Analytical Chemistry</i> , 2017, 89, 13000-13007.	3.2	85
8	Quantum yield and excitation rate of single molecules close to metallic nanostructures. <i>Nature Communications</i> , 2014, 5, 5356.	5.8	74
9	Broadband Fluorescence Enhancement with Self-Assembled Silver Nanoparticle Optical Antennas. <i>ACS Nano</i> , 2017, 11, 4969-4975.	7.3	67
10	Controlled Reduction of Photobleaching in DNA Origami-Gold Nanoparticle Hybrids. <i>Nano Letters</i> , 2014, 14, 2831-2836.	4.5	65
11	Addressable nanoantennas with cleared hotspots for single-molecule detection on a portable smartphone microscope. <i>Nature Communications</i> , 2021, 12, 950.	5.8	63
12	Surface plasmons in terahertz metamaterials. <i>Optics Express</i> , 2008, 16, 18745.	1.7	61
13	Recent advances in plasmonic nanocavities for single-molecule spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 633-642.	2.2	61
14	Plasmon-assisted Förster resonance energy transfer at the single-molecule level in the moderate quenching regime. <i>Nanoscale</i> , 2019, 11, 7674-7681.	2.8	56
15	Plasmonics Enhanced Smartphone Fluorescence Microscopy. <i>Scientific Reports</i> , 2017, 7, 2124.	1.6	53
16	Distance control in-between plasmonic nanoparticles via biological and polymeric spacers. <i>Nano Today</i> , 2013, 8, 480-493.	6.2	50
17	Benchmarking Smartphone Fluorescence-Based Microscopy with DNA Origami Nanobeads: Reducing the Gap toward Single-Molecule Sensitivity. <i>ACS Omega</i> , 2019, 4, 637-642.	1.6	49
18	Single-Molecule Positioning in Zeromode Waveguides by DNA Origami Nanoadapters. <i>Nano Letters</i> , 2014, 14, 3499-3503.	4.5	42

#	ARTICLE	IF	CITATIONS
19	<i>In Situ</i> Photothermal Response of Single Gold Nanoparticles through Hyperspectral Imaging Anti-Stokes Thermometry. ACS Nano, 2021, 15, 2458-2467.	7.3	42
20	Distance Dependence of Single-Molecule Energy Transfer to Graphene Measured with DNA Origami Nanopositioners. Nano Letters, 2019, 19, 4257-4262.	4.5	40
21	Strong Plasmonic Enhancement of a Single Peridininâ€“Chlorophyll <i>a</i> â€“Protein Complex on DNA Origami-Based Optical Antennas. ACS Nano, 2018, 12, 1650-1655.	7.3	38
22	Directing Single-Molecule Emission with DNA Origami-Assembled Optical Antennas. Nano Letters, 2019, 19, 6629-6634.	4.5	37
23	Placing Individual Molecules in the Center of Nanoapertures. Nano Letters, 2014, 14, 391-395.	4.5	33
24	Sculpting light by arranging optical components with DNA nanostructures. MRS Bulletin, 2017, 42, 936-942.	1.7	32
25	DNAâ€“Mediated Selfâ€“Assembly of Plasmonic Antennas with a Single Quantum Dot in the Hot Spot. Small, 2019, 15, e1804418.	5.2	29
26	DNA Origami as Emerging Technology for the Engineering of Fluorescent and Plasmonic-Based Biosensors. Materials, 2020, 13, 2185.	1.3	27
27	Synergistic Combination of Unquenching and Plasmonic Fluorescence Enhancement in Fluorogenic Nucleic Acid Hybridization Probes. Nano Letters, 2017, 17, 6496-6500.	4.5	26
28	An alternative to MINIFLUX that enables nanometer resolution in a confocal microscope. Light: Science and Applications, 2022, 11, .	7.7	26
29	Functionalizing large nanoparticles for small gaps in dimer nanoantennas. New Journal of Physics, 2016, 18, 045012.	1.2	25
30	Strong plasmonic enhancement of single molecule photostability in silver dimer optical antennas. Nanophotonics, 2018, 7, 643-649.	2.9	22
31	Probing the momentum relaxation time of charge carriers in ultrathin layers with terahertz radiation. Optics Express, 2009, 17, 17450.	1.7	19
32	Enhancing singleâ€“molecule fluorescence with nanophotonics. FEBS Letters, 2014, 588, 3547-3552.	1.3	19
33	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
34	Millimeter wave probing of the acoustic phase for concealed object detection. Optics Express, 2007, 15, 8838.	1.7	12
35	Angular modulation of single-molecule fluorescence by gold nanoparticles on DNA origami templates. Nanophotonics, 2013, 2, 167-172.	2.9	12
36	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

#	ARTICLE	IF	CITATIONS
37	Shear force control for a terahertz near field microscope. Review of Scientific Instruments, 2007, 78, 113701.	0.6	11
38	Interdigitated terahertz emitters. Electronics Letters, 2008, 44, 229.	0.5	11
39	DNA-templated nanoantennas for single-molecule detection at elevated concentrations. Journal of Biomedical Optics, 2013, 18, 065001.	1.4	9
40	Terahertz Near-Field Microscopy. , 2008, , 203-222.		8
41	Acoustic phase imaging with terahertz radiation. Optics Express, 2007, 15, 4427.	1.7	7
42	Time-dependent induced potentials in convoy electron emission. Surface Science, 2006, 600, 4961-4965.	0.8	2
43	DNA origami nanotools for single-molecule biosensing and superresolution microscopy. , 2019, , .		2
44	Abbildung akustischer Phasenverzerrungen mit Terahertz- und Millimeterwellen-Techniken (Mapping) Tj ETQq0 0 0 rgBT /Overlock 10 51-57.	0.3	1
45	Terahertz imaging of concealed objects by acoustic phase detection. Proceedings of SPIE, 2008, , .	0.8	1
46	Molecule detection with sunlight. Nature Photonics, 2017, 11, 616-618.	15.6	1
47	Interdigitated terahertz emitters. , 2007, , .		0
48	Concealed object detection by sensing the objects&#x2019; acoustic phase with terahertz radiation. , 2008, , .		0
49	DNA-templated nanoantennas for single-molecule detection at elevated concentrations. Proceedings of SPIE, 2013, , .	0.8	0
50	Terahertz emission from charge transport in inhomogeneous fields. , 2008, , .		0
51	Terahertz near field microscopy of metamaterials. , 2008, , .		0
52	Self-Assembled Nanoparticle Optical Antennas. , 2020, , 8-1-8-14.		0