

Maria F Garcia-Parajo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

6,001
citations

46
h-index

75
g-index

142
ext. papers

6,926
ext. citations

7.2
avg, IF

5.72
L-index

#	Paper	IF	Citations
120	Chromatin fibers are formed by heterogeneous groups of nucleosomes in vivo. <i>Cell</i> , 2015 , 160, 1145-58	56.2	396
119	A review of progress in single particle tracking: from methods to biophysical insights. <i>Reports on Progress in Physics</i> , 2015 , 78, 124601	14.4	273
118	A plasmonic 'antenna-in-box' platform for enhanced single-molecule analysis at micromolar concentrations. <i>Nature Nanotechnology</i> , 2013 , 8, 512-6	28.7	248
117	Hotspots of GPI-anchored proteins and integrin nanoclusters function as nucleation sites for cell adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18557-62	11.5	187
116	Multistep energy transfer in single molecular photonic wires. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6514-5	16.4	179
115	Nanoclustering as a dominant feature of plasma membrane organization. <i>Journal of Cell Science</i> , 2014 , 127, 4995-5005	5.3	167
114	Real-time light-driven dynamics of the fluorescence emission in single green fluorescent protein molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 7237-42	11.5	159
113	A simple approach to sensor discovery and fabrication on self-assembled monolayers on glass. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7293-9	16.4	155
112	Time-Varying Triplet State Lifetimes of Single Molecules. <i>Physical Review Letters</i> , 1999 , 83, 2155-2158	7.4	151
111	All-Dielectric Silicon Nanogap Antennas To Enhance the Fluorescence of Single Molecules. <i>Nano Letters</i> , 2016 , 16, 5143-51	11.5	147
110	Nonergodic subdiffusion from Brownian motion in an inhomogeneous medium. <i>Physical Review Letters</i> , 2014 , 112, 150603	7.4	121
109	Influencing the angular emission of a single molecule. <i>Physical Review Letters</i> , 2000 , 85, 5312-5	7.4	111
108	Investigation of perylene photonic wires by combined single-molecule fluorescence and atomic force microscopy. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4045-9	16.4	105
107	Power-law-distributed dark states are the main pathway for photobleaching of single organic molecules. <i>Physical Review Letters</i> , 2005 , 95, 097401	7.4	99
106	Single molecule mapping of the optical field distribution of probes for near-field microscopy. <i>Journal of Microscopy</i> , 1999 , 194, 477-82	1.9	95
105	Single Molecule Rotational and Translational Diffusion Observed by Near-Field Scanning Optical Microscopy. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7318-7323	2.8	92
104	Near-field scanning optical microscopy in liquid for high resolution single molecule detection on dendritic cells. <i>FEBS Letters</i> , 2004 , 573, 6-10	3.8	91

103	In-Plane Plasmonic Antenna Arrays with Surface Nanogaps for Giant Fluorescence Enhancement. <i>Nano Letters</i> , 2017 , 17, 1703-1710	11.5	90
102	Weak Ergodicity Breaking of Receptor Motion in Living Cells Stemming from Random Diffusivity. <i>Physical Review X</i> , 2015 , 5,	9.1	87
101	Excitonic Behavior of Rhodamine Dimers: A Single-Molecule Study. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 43-52	2.8	86
100	The nature of fluorescence emission in the red fluorescent protein DsRed, revealed by single-molecule detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14392-7	11.5	85
99	Power-law blinking in the fluorescence of single organic molecules. <i>ChemPhysChem</i> , 2007 , 8, 823-33	3.2	84
98	Direct mapping of nanoscale compositional connectivity on intact cell membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15437-42	11.5	81
97	Nanoscale organization of the pathogen receptor DC-SIGN mapped by single-molecule high-resolution fluorescence microscopy. <i>ChemPhysChem</i> , 2007 , 8, 1473-80	3.2	79
96	Molecular printboards on silicon oxide: lithographic patterning of cyclodextrin monolayers with multivalent, fluorescent guest molecules. <i>Small</i> , 2005 , 1, 242-53	11	77
95	Lateral mobility of individual integrin nanoclusters orchestrates the onset for leukocyte adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4869-74	11.5	74
94	Single-molecule imaging of cell surfaces using near-field nanoscopy. <i>Accounts of Chemical Research</i> , 2012 , 45, 327-36	24.3	73
93	Nanoscale fluorescence correlation spectroscopy on intact living cell membranes with NSOM probes. <i>Biophysical Journal</i> , 2011 , 100, L8-10	2.9	66
92	A DNA origami platform for quantifying protein copy number in super-resolution. <i>Nature Methods</i> , 2017 , 14, 789-792	21.6	65
91	Single molecule photobleaching probes the exciton wave function in a multichromophoric system. <i>Physical Review Letters</i> , 2004 , 93, 236404	7.4	65
90	Ultrabright bowtie nanoaperture antenna probes studied by single molecule fluorescence. <i>Nano Letters</i> , 2012 , 12, 5972-8	11.5	64
89	Matching Nanoantenna Field Confinement to FRET Distances Enhances Förster Energy Transfer Rates. <i>Nano Letters</i> , 2015 , 15, 6193-201	11.5	63
88	Single-molecule pump-probe detection resolves ultrafast pathways in individual and coupled quantum systems. <i>Physical Review Letters</i> , 2005 , 94, 078302	7.4	60
87	Imaging individual proteins and nanodomains on intact cell membranes with a probe-based optical antenna. <i>Small</i> , 2010 , 6, 270-5	11	59
86	Nanometer-scale organization of the alpha subunits of the receptors for IL2 and IL15 in human T lymphoma cells. <i>Journal of Cell Science</i> , 2008 , 121, 627-33	5.3	56

85	Geometry sensing by dendritic cells dictates spatial organization and PGE(2)-induced dissolution of podosomes. <i>Cellular and Molecular Life Sciences</i> , 2012 , 69, 1889-901	10.3	55
84	Energy transfer in single-molecule photonic wires. <i>ChemPhysChem</i> , 2005 , 6, 819-27	3.2	55
83	Plasmonic Nanoantennas Enable Forbidden Förster Dipole-Dipole Energy Transfer and Enhance the FRET Efficiency. <i>Nano Letters</i> , 2016 , 16, 6222-6230	11.5	54
82	Shear force imaging of soft samples in liquid using a diving bell concept. <i>Applied Physics Letters</i> , 2003 , 83, 5083-5085	3.4	53
81	Enhancement and Inhibition of Spontaneous Photon Emission by Resonant Silicon Nanoantennas. <i>Physical Review Applied</i> , 2016 , 6,	4.3	52
80	Synthesis and characterization of long perylene diimide polymer fibers: from bulk to the single-molecule level. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7803-12	3.4	51
79	Enhanced receptor-clathrin interactions induced by N-glycan-mediated membrane micropatterning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11037-42	11.5	50
78	pH-responsive polysaccharide-based polyelectrolyte complexes as nanocarriers for lysosomal delivery of therapeutic proteins. <i>Biomacromolecules</i> , 2011 , 12, 2524-33	6.9	49
77	Nanotribological Properties of Octadecyltrichlorosilane Self-Assembled Ultrathin Films Studied by Atomic Force Microscopy: Contact and Tapping Modes. <i>Langmuir</i> , 1997 , 13, 2333-2339	4	49
76	Tuning fork shear-force feedback. <i>Ultramicroscopy</i> , 1998 , 71, 149-57	3.1	46
75	Roadmap on biosensing and photonics with advanced nano-optical methods. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 063003	1.7	46
74	A nanometer scale optical view on the compartmentalization of cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 777-87	3.8	43
73	DNA-based molecular wires: multiple emission pathways of individual constructs. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26349-53	3.4	43
72	Strong Modification of Magnetic Dipole Emission through Diabolo Nanoantennas. <i>ACS Photonics</i> , 2015 , 2, 1071-1076	6.3	41
71	Enhancing Magnetic Light Emission with All-Dielectric Optical Nanoantennas. <i>Nano Letters</i> , 2018 , 18, 3481-3487	11.5	41
70	Changes in membrane sphingolipid composition modulate dynamics and adhesion of integrin nanoclusters. <i>Scientific Reports</i> , 2016 , 6, 20693	4.9	41
69	The neck region of the C-type lectin DC-SIGN regulates its surface spatiotemporal organization and virus-binding capacity on antigen-presenting cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38946-55	5.4	41
68	Probing polymers with single fluorescent molecules. <i>European Polymer Journal</i> , 2004 , 40, 1001-1011	5.2	41

67	Selective Immobilization of Protein Clusters on Polymeric Nanocraters. <i>Advanced Functional Materials</i> , 2006 , 16, 1242-1246	15.6	38
66	Near-field fluorescence imaging of genetic material: toward the molecular limit. <i>Journal of Structural Biology</i> , 1997 , 119, 222-31	3.4	37
65	Near-field optical microscopy for DNA studies at the single molecular level. <i>Bioimaging</i> , 1998 , 6, 43-53		36
64	Optical probing of single fluorescent molecules and proteins. <i>ChemPhysChem</i> , 2001 , 2, 347-60	3.2	36
63	Effect of disorder on ultrafast exciton dynamics probed by single molecule spectroscopy. <i>Physical Review Letters</i> , 2006 , 97, 216403	7.4	35
62	Simultaneous scanning tunneling microscope and collection mode scanning near-field optical microscope using gold coated optical fiber probes. <i>Applied Physics Letters</i> , 1994 , 65, 1498-1500	3.4	34
61	Separating Actin-Dependent Chemokine Receptor Nanoclustering from Dimerization Indicates a Role for Clustering in CXCR4 Signaling and Function. <i>Molecular Cell</i> , 2018 , 70, 106-119.e10	17.6	33
60	Planar Optical Nanoantennas Resolve Cholesterol-Dependent Nanoscale Heterogeneities in the Plasma Membrane of Living Cells. <i>Nano Letters</i> , 2017 , 17, 6295-6302	11.5	32
59	Large-Scale Arrays of Bowtie Nanoaperture Antennas for Nanoscale Dynamics in Living Cell Membranes. <i>Nano Letters</i> , 2015 , 15, 4176-82	11.5	32
58	Multifunctional nanovesicle-bioactive conjugates prepared by a one-step scalable method using CO ₂ -expanded solvents. <i>Nano Letters</i> , 2013 , 13, 3766-74	11.5	31
57	Galactosidase-A Loaded-Nanoliposomes with Enhanced Enzymatic Activity and Intracellular Penetration. <i>Advanced Healthcare Materials</i> , 2016 , 5, 829-40	10.1	31
56	Gold-coated parabolic tapers for scanning near-field optical microscopy: fabrication and optimisation. <i>Ultramicroscopy</i> , 1995 , 61, 155-163	3.1	29
55	Hybrid photonic antennas for subnanometer multicolor localization and nanoimaging of single molecules. <i>Nano Letters</i> , 2014 , 14, 4895-900	11.5	28
54	Transient Nanoscopic Phase Separation in Biological Lipid Membranes Resolved by Planar Plasmonic Antennas. <i>ACS Nano</i> , 2017 , 11, 7241-7250	16.7	28
53	Optical Antenna-Based Fluorescence Correlation Spectroscopy to Probe the Nanoscale Dynamics of Biological Membranes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 110-119	6.4	28
52	The actin cytoskeleton modulates the activation of iNKT cells by segregating CD1d nanoclusters on antigen-presenting cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E772-81	11.5	26
51	Quantum pillar structures on n+ gallium arsenide fabricated using natural lithography. <i>Applied Physics Letters</i> , 1993 , 62, 264-266	3.4	24
50	Excitation-multiplexed multicolor superresolution imaging with fm-STORM and fm-DNA-PAINT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12991-12996	11.5	24

49	Photon antibunching proves emission from a single subunit in the autofluorescent protein DsRed. <i>ChemPhysChem</i> , 2004 , 5, 1782-5	3.2	23
48	Investigation of Perylene Photonic Wires by Combined Single-Molecule Fluorescence and Atomic Force Microscopy. <i>Angewandte Chemie</i> , 2004 , 116, 4137-4141	3.6	22
47	Ion implantation effects in polycrystalline WO ₃ thin films. <i>Journal of Applied Physics</i> , 1991 , 70, 3509-3511	1.5	21
46	Recent progress in cell surface nanoscopy: Light and force in the near-field. <i>Nano Today</i> , 2012 , 7, 390-403	7.9	19
45	Near-field fluorescence microscopy. <i>Nanobiotechnology</i> , 2005 , 1, 113-120		19
44	Moulded photoplastic probes for near-field optical applications. <i>Journal of Microscopy</i> , 2001 , 202, 16-21	1.9	19
43	Sphingomyelin metabolism controls the shape and function of the Golgi cisternae. <i>ELife</i> , 2017 , 6,	8.9	19
42	Dynamic imaging of cell-free and cell-associated viral capture in mature dendritic cells. <i>Traffic</i> , 2011 , 12, 1702-13	5.7	18
41	Near-field optical and shear-force microscopy of single fluorophores and DNA molecules. <i>Ultramicroscopy</i> , 1998 , 71, 311-9	3.1	18
40	PSF decomposition of nanoscopy images via Bayesian analysis unravels distinct molecular organization of the cell membrane. <i>Scientific Reports</i> , 2014 , 4, 4354	4.9	17
39	Molecular recognition imaging using tuning fork-based transverse dynamic force microscopy. <i>Ultramicroscopy</i> , 2010 , 110, 605-11	3.1	17
38	Near-field effects in single molecule emission. <i>Journal of Microscopy</i> , 2001 , 202, 374-8	1.9	16
37	Highly Versatile Polyelectrolyte Complexes for Improving the Enzyme Replacement Therapy of Lysosomal Storage Disorders. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25741-25752	9.5	16
36	Memory in Single Emitter Fluorescence Blinking Reveals the Dynamic Character of Nanoscale Charge Tunneling. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3417-3422	3.8	15
35	Up-regulation of EP and EP receptors in human tolerogenic dendritic cells boosts the immunosuppressive activity of PGE. <i>Journal of Leukocyte Biology</i> , 2017 , 102, 881-895	6.5	14
34	Dynamic actin-mediated nano-scale clustering of CD44 regulates its meso-scale organization at the plasma membrane. <i>Molecular Biology of the Cell</i> , 2020 , 31, 561-579	3.5	14
33	The ER cholesterol sensor SCAP promotes CARTS biogenesis at ER-Golgi membrane contact sites. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	13
32	Frequency-Encoded Multicolor Fluorescence Imaging with Single-Photon-Counting Color-Blind Detection. <i>Biophysical Journal</i> , 2018 , 115, 725-736	2.9	11

31	Tailored interfaces for biosensors and cell-surface interaction studies via activation and derivatization of polystyrene-block-poly(tert-butyl acrylate) thin films. <i>European Polymer Journal</i> , 2007 , 43, 2177-2190	5.2	10
30	Dynamic re-organization of individual adhesion nanoclusters in living cells by ligand-patterned surfaces. <i>Small</i> , 2009 , 5, 1258-63	11	9
29	Priming by chemokines restricts lateral mobility of the adhesion receptor LFA-1 and restores adhesion to ICAM-1 nano-aggregates on human mature dendritic cells. <i>PLoS ONE</i> , 2014 , 9, e99589	3.7	8
28	Nanophotonic approaches for nanoscale imaging and single-molecule detection at ultrahigh concentrations. <i>Microscopy Research and Technique</i> , 2014 , 77, 537-45	2.8	7
27	Biochemical and imaging methods to study receptor membrane organization and association with lipid rafts. <i>Methods in Cell Biology</i> , 2013 , 117, 105-22	1.8	7
26	Uncovering homo-and hetero-interactions on the cell membrane using single particle tracking approaches. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 104002	3	7
25	Lateral Mobility and Nanoscale Spatial Arrangement of Chemokine-activated α 4 β 1 Integrins on T Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 21053-21062	5.4	6
24	Nanoscale control of single molecule Föster resonance energy transfer by a scanning photonic nanoantenna. <i>Nanophotonics</i> , 2020 , 9, 4021-4031	6.3	5
23	On the way to a multi-task near field optical microscope: Simultaneous STM/SNOM and PSTM imaging. <i>Microscopy Microanalysis Microstructures</i> , 1994 , 5, 399-407		5
22	Inhomogeneous membrane receptor diffusion explained by a fractional heteroscedastic time series model. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3114-3121	3.6	4
21	Ultrafast single-molecule photonics: Excited state dynamics in coherently coupled complexes. <i>Journal of Luminescence</i> , 2008 , 128, 1050-1052	3.8	4
20	Design and implementation of a combined scanning tunneling and near-field optical microscope. <i>Ultramicroscopy</i> , 1995 , 61, 253-258	3.1	4
19	Shear forces induce ICAM-1 nanoclustering on endothelial cells that impact on T-cell migration. <i>Biophysical Journal</i> , 2021 , 120, 2644-2656	2.9	4
18	Visualising individual green fluorescent proteins with a near field optical microscope. <i>Cytometry</i> , 1999 , 36, 239-46		4
17	The role of nanophotonics in regenerative medicine. <i>Methods in Molecular Biology</i> , 2012 , 811, 267-84	1.4	3
16	Phase separation of tunable biomolecular condensates predicted by an interacting particle model		3
15	PLANT: A Method for Detecting Changes of Slope in Noisy Trajectories. <i>Biophysical Journal</i> , 2018 , 114, 2044-2051	2.9	3
14	Meeting report--Visualizing signaling nanoplatfoms at a higher spatiotemporal resolution. <i>Journal of Cell Science</i> , 2013 , 126, 3817-21	5.3	2

- 13 Probing the local field of nanoantennas using single particle luminescence. *Journal of Physics: Conference Series*, **2008**, 100, 052038 0.3 2
- 12 Looking at the photodynamics of individual fluorescent molecules and proteins. *Pure and Applied Chemistry*, **2001**, 73, 431-434 2.1 2
- 11 Shear flow-driven actin re-organization induces ICAM-1 nanoclustering on endothelial cells that impact T-cell migration 1
- 10 Impact of Glycans on Lipid Membrane Dynamics at the Nanoscale Unveiled by Planar Plasmonic Nanogap Antennas and Atomic Force Spectroscopy. *Journal of Physical Chemistry Letters*, **2021**, 12, 1175-1181 ^{6.4} 1
- 9 Roadmap on bio-nano-photonics. *Journal of Optics (United Kingdom)*, **2021**, 23, 073001 1.7 0
- 8 Correlative nanophotonic approaches to enlighten the nanoscale dynamics of living cell membranes. *Biochemical Society Transactions*, **2021**, 49, 2357-2369 5.1 0
- 7 Altered CXCR4 dynamics at the cell membrane impairs directed cell migration in WHIM syndrome patients.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2119483119 11.5 0
- 6 Near-Field Optical Nanoscopy of Biological Membranes. *Springer Series on Fluorescence*, **2012**, 339-363 0.5
- 5 2.8 Super-Resolution Near-Field Optical Microscopy **2012**, 144-164
- 4 Ultrafast spectroscopy of single molecules. *Springer Series in Chemical Physics*, **2007**, 231-233 0.3
- 3 Individual green fluorescent proteins (GFP) studied by near-field optical microscopy **1999**, 89-92
- 2 DNA-protein interactions: single molecule spectroscopy and imaging **1999**, 273-274
- 1 Near-Field Scanning Optical Microscopy of Biological Membranes **2011**, 185-207