

# Maria F Garcia-Parajo

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/774457/maria-f-garcia-parajo-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Altered CXCR4 dynamics at the cell membrane impairs directed cell migration in WHIM syndrome patients.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2119483119	11.5	0
119	The ER cholesterol sensor SCAP promotes CARTS biogenesis at ER-Golgi membrane contact sites. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	13
118	Roadmap on bio-nano-photonics. <i>Journal of Optics (United Kingdom)</i> , <b>2021</b> , 23, 073001	1.7	0
117	Shear forces induce ICAM-1 nanoclustering on endothelial cells that impact on T-cell migration. <i>Biophysical Journal</i> , <b>2021</b> , 120, 2644-2656	2.9	4
116	Impact of Glycans on Lipid Membrane Dynamics at the Nanoscale Unveiled by Planar Plasmonic Nanogap Antennas and Atomic Force Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1175-1181	6.4	1
115	Correlative nanophotonic approaches to enlighten the nanoscale dynamics of living cell membranes. <i>Biochemical Society Transactions</i> , <b>2021</b> , 49, 2357-2369	5.1	0
114	Nanoscale control of single molecule Förster resonance energy transfer by a scanning photonic nanoantenna. <i>Nanophotonics</i> , <b>2020</b> , 9, 4021-4031	6.3	5
113	Dynamic actin-mediated nano-scale clustering of CD44 regulates its meso-scale organization at the plasma membrane. <i>Molecular Biology of the Cell</i> , <b>2020</b> , 31, 561-579	3.5	14
112	Inhomogeneous membrane receptor diffusion explained by a fractional heteroscedastic time series model. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 3114-3121	3.6	4
111	Separating Actin-Dependent Chemokine Receptor Nanoclustering from Dimerization Indicates a Role for Clustering in CXCR4 Signaling and Function. <i>Molecular Cell</i> , <b>2018</b> , 70, 106-119.e10	17.6	33
110	Enhancing Magnetic Light Emission with All-Dielectric Optical Nanoantennas. <i>Nano Letters</i> , <b>2018</b> , 18, 3481-3487	11.5	41
109	Frequency-Encoded Multicolor Fluorescence Imaging with Single-Photon-Counting Color-Blind Detection. <i>Biophysical Journal</i> , <b>2018</b> , 115, 725-736	2.9	11
108	Optical Antenna-Based Fluorescence Correlation Spectroscopy to Probe the Nanoscale Dynamics of Biological Membranes. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 110-119	6.4	28
107	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> , <b>2018</b> , 115, 12991-12996	11.5	24
106	PLANT: A Method for Detecting Changes of Slope in Noisy Trajectories. <i>Biophysical Journal</i> , <b>2018</b> , 114, 2044-2051	2.9	3
105	In-Plane Plasmonic Antenna Arrays with Surface Nanogaps for Giant Fluorescence Enhancement. <i>Nano Letters</i> , <b>2017</b> , 17, 1703-1710	11.5	90
104	Up-regulation of EP and EP receptors in human tolerogenic dendritic cells boosts the immunosuppressive activity of PGE. <i>Journal of Leukocyte Biology</i> , <b>2017</b> , 102, 881-895	6.5	14

103	Planar Optical Nanoantennas Resolve Cholesterol-Dependent Nanoscale Heterogeneities in the Plasma Membrane of Living Cells. <i>Nano Letters</i> , <b>2017</b> , 17, 6295-6302	11.5	32
102	Transient Nanoscopic Phase Separation in Biological Lipid Membranes Resolved by Planar Plasmonic Antennas. <i>ACS Nano</i> , <b>2017</b> , 11, 7241-7250	16.7	28
101	A DNA origami platform for quantifying protein copy number in super-resolution. <i>Nature Methods</i> , <b>2017</b> , 14, 789-792	21.6	65
100	Sphingomyelin metabolism controls the shape and function of the Golgi cisternae. <i>ELife</i> , <b>2017</b> , 6,	8.9	19
99	Changes in membrane sphingolipid composition modulate dynamics and adhesion of integrin nanoclusters. <i>Scientific Reports</i> , <b>2016</b> , 6, 20693	4.9	41
98	Plasmonic Nanoantennas Enable Forbidden Förster Dipole-Dipole Energy Transfer and Enhance the FRET Efficiency. <i>Nano Letters</i> , <b>2016</b> , 16, 6222-6230	11.5	54
97	All-Dielectric Silicon Nanogap Antennas To Enhance the Fluorescence of Single Molecules. <i>Nano Letters</i> , <b>2016</b> , 16, 5143-51	11.5	147
96	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> , <b>2016</b> , 113, E772-81	11.5	26
95	Galactosidase-A Loaded-Nanoliposomes with Enhanced Enzymatic Activity and Intracellular Penetration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 829-40	10.1	31
94	Uncovering homo-and hetero-interactions on the cell membrane using single particle tracking approaches. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 104002	3	7
93	Enhancement and Inhibition of Spontaneous Photon Emission by Resonant Silicon Nanoantennas. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	52
92	Roadmap on biosensing and photonics with advanced nano-optical methods. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 063003	1.7	46
91	Highly Versatile Polyelectrolyte Complexes for Improving the Enzyme Replacement Therapy of Lysosomal Storage Disorders. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25741-25752	9.5	16
90	Lateral Mobility and Nanoscale Spatial Arrangement of Chemokine-activated $\beta 1$ Integrins on T Cells. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 21053-21062	5.4	6
89	Weak Ergodicity Breaking of Receptor Motion in Living Cells Stemming from Random Diffusivity. <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	87
88	Chromatin fibers are formed by heterogeneous groups of nucleosomes in vivo. <i>Cell</i> , <b>2015</b> , 160, 1145-58	56.2	396
87	Strong Modification of Magnetic Dipole Emission through Diabolo Nanoantennas. <i>ACS Photonics</i> , <b>2015</b> , 2, 1071-1076	6.3	41
86	Matching Nanoantenna Field Confinement to FRET Distances Enhances Förster Energy Transfer Rates. <i>Nano Letters</i> , <b>2015</b> , 15, 6193-201	11.5	63

85	Large-Scale Arrays of Bowtie Nanoaperture Antennas for Nanoscale Dynamics in Living Cell Membranes. <i>Nano Letters</i> , <b>2015</b> , 15, 4176-82	11.5	32
84	A review of progress in single particle tracking: from methods to biophysical insights. <i>Reports on Progress in Physics</i> , <b>2015</b> , 78, 124601	14.4	273
83	Nanophotonic approaches for nanoscale imaging and single-molecule detection at ultrahigh concentrations. <i>Microscopy Research and Technique</i> , <b>2014</b> , 77, 537-45	2.8	7
82	Hybrid photonic antennas for subnanometer multicolor localization and nanoimaging of single molecules. <i>Nano Letters</i> , <b>2014</b> , 14, 4895-900	11.5	28
81	Nonergodic subdiffusion from Brownian motion in an inhomogeneous medium. <i>Physical Review Letters</i> , <b>2014</b> , 112, 150603	7.4	121
80	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> , <b>2014</b> , 111, 11037-42	11.5	50
79	PSF decomposition of nanoscopy images via Bayesian analysis unravels distinct molecular organization of the cell membrane. <i>Scientific Reports</i> , <b>2014</b> , 4, 4354	4.9	17
78	Nanoclustering as a dominant feature of plasma membrane organization. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 4995-5005	5.3	167
77	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> , <b>2014</b> , 9, e99589	3.7	8
76	Biochemical and imaging methods to study receptor membrane organization and association with lipid rafts. <i>Methods in Cell Biology</i> , <b>2013</b> , 117, 105-22	1.8	7
75	Multifunctional nanovesicle-bioactive conjugates prepared by a one-step scalable method using CO <sub>2</sub> -expanded solvents. <i>Nano Letters</i> , <b>2013</b> , 13, 3766-74	11.5	31
74	A plasmonic 'antenna-in-box' platform for enhanced single-molecule analysis at micromolar concentrations. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 512-6	28.7	248
73	Meeting report--Visualizing signaling nanoplatfoms at a higher spatiotemporal resolution. <i>Journal of Cell Science</i> , <b>2013</b> , 126, 3817-21	5.3	2
72	Recent progress in cell surface nanoscopy: Light and force in the near-field. <i>Nano Today</i> , <b>2012</b> , 7, 390-403	7.9	19
71	Ultrabright bowtie nanoaperture antenna probes studied by single molecule fluorescence. <i>Nano Letters</i> , <b>2012</b> , 12, 5972-8	11.5	64
70	Near-Field Optical Nanoscopy of Biological Membranes. <i>Springer Series on Fluorescence</i> , <b>2012</b> , 339-363	0.5	
69	Single-molecule imaging of cell surfaces using near-field nanoscopy. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 327-36	24.3	73
68	The role of nanophotonics in regenerative medicine. <i>Methods in Molecular Biology</i> , <b>2012</b> , 811, 267-84	1.4	3

67 2.8 Super-Resolution Near-Field Optical Microscopy **2012**, 144-164

66 Geometry sensing by dendritic cells dictates spatial organization and PGE(2)-induced dissolution of podosomes. *Cellular and Molecular Life Sciences*, **2012**, 69, 1889-901 10.3 55

65 The neck region of the C-type lectin DC-SIGN regulates its surface spatiotemporal organization and virus-binding capacity on antigen-presenting cells. *Journal of Biological Chemistry*, **2012**, 287, 38946-55 5.4 41

64 Lateral mobility of individual integrin nanoclusters orchestrates the onset for leukocyte adhesion. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4869-74 11.5 74

63 pH-responsive polysaccharide-based polyelectrolyte complexes as nanocarriers for lysosomal delivery of therapeutic proteins. *Biomacromolecules*, **2011**, 12, 2524-33 6.9 49

62 Nanoscale fluorescence correlation spectroscopy on intact living cell membranes with NSOM probes. *Biophysical Journal*, **2011**, 100, L8-10 2.9 66

61 Dynamic imaging of cell-free and cell-associated viral capture in mature dendritic cells. *Traffic*, **2011**, 12, 1702-13 5.7 18

60 Near-Field Scanning Optical Microscopy of Biological Membranes **2011**, 185-207

59 Direct mapping of nanoscale compositional connectivity on intact cell membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 15437-42 11.5 81

58 A nanometer scale optical view on the compartmentalization of cell membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 777-87 3.8 43

57 Molecular recognition imaging using tuning fork-based transverse dynamic force microscopy. *Ultramicroscopy*, **2010**, 110, 605-11 3.1 17

56 Imaging individual proteins and nanodomains on intact cell membranes with a probe-based optical antenna. *Small*, **2010**, 6, 270-5 11 59

55 Hotspots of GPI-anchored proteins and integrin nanoclusters function as nucleation sites for cell adhesion. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18557-62 11.5 187

54 Dynamic re-organization of individual adhesion nanoclusters in living cells by ligand-patterned surfaces. *Small*, **2009**, 5, 1258-63 11 9

53 Memory in Single Emitter Fluorescence Blinking Reveals the Dynamic Character of Nanoscale Charge Tunneling. *Journal of Physical Chemistry C*, **2008**, 112, 3417-3422 3.8 15

52 Nanometer-scale organization of the alpha subunits of the receptors for IL2 and IL15 in human T lymphoma cells. *Journal of Cell Science*, **2008**, 121, 627-33 5.3 56

51 Probing the local field of nanoantennas using single particle luminescence. *Journal of Physics: Conference Series*, **2008**, 100, 052038 0.3 2

50 Ultrafast single-molecule photonics: Excited state dynamics in coherently coupled complexes. *Journal of Luminescence*, **2008**, 128, 1050-1052 3.8 4

49	Power-law blinking in the fluorescence of single organic molecules. <i>ChemPhysChem</i> , <b>2007</b> , 8, 823-33	3.2	84
48	Nanoscale organization of the pathogen receptor DC-SIGN mapped by single-molecule high-resolution fluorescence microscopy. <i>ChemPhysChem</i> , <b>2007</b> , 8, 1473-80	3.2	79
47	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> , <b>2007</b> , 43, 2177-2190	5.2	10
46	Ultrafast spectroscopy of single molecules. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 231-233	0.3	
45	Selective Immobilization of Protein Clusters on Polymeric Nanocraters. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1242-1246	15.6	38
44	Effect of disorder on ultrafast exciton dynamics probed by single molecule spectroscopy. <i>Physical Review Letters</i> , <b>2006</b> , 97, 216403	7.4	35
43	DNA-based molecular wires: multiple emission pathways of individual constructs. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 26349-53	3.4	43
42	Synthesis and characterization of long perylenediimide polymer fibers: from bulk to the single-molecule level. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 7803-12	3.4	51
41	Near-field fluorescence microscopy. <i>Nanobiotechnology</i> , <b>2005</b> , 1, 113-120		19
40	Energy transfer in single-molecule photonic wires. <i>ChemPhysChem</i> , <b>2005</b> , 6, 819-27	3.2	55
39	Molecular printboards on silicon oxide: lithographic patterning of cyclodextrin monolayers with multivalent, fluorescent guest molecules. <i>Small</i> , <b>2005</b> , 1, 242-53	11	77
38	Single-molecule pump-probe detection resolves ultrafast pathways in individual and coupled quantum systems. <i>Physical Review Letters</i> , <b>2005</b> , 94, 078302	7.4	60
37	Power-law-distributed dark states are the main pathway for photobleaching of single organic molecules. <i>Physical Review Letters</i> , <b>2005</b> , 95, 097401	7.4	99
36	Single molecule photobleaching probes the exciton wave function in a multichromophoric system. <i>Physical Review Letters</i> , <b>2004</b> , 93, 236404	7.4	65
35	Investigation of perylene photonic wires by combined single-molecule fluorescence and atomic force microscopy. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4045-9	16.4	105
34	Investigation of Perylene Photonic Wires by Combined Single-Molecule Fluorescence and Atomic Force Microscopy. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 4137-4141	3.6	22
33	Photon antibunching proves emission from a single subunit in the autofluorescent protein DsRed. <i>ChemPhysChem</i> , <b>2004</b> , 5, 1782-5	3.2	23
32	Probing polymers with single fluorescent molecules. <i>European Polymer Journal</i> , <b>2004</b> , 40, 1001-1011	5.2	41

31	Multistep energy transfer in single molecular photonic wires. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 6514-5	16.4	179
30	A simple approach to sensor discovery and fabrication on self-assembled monolayers on glass. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7293-9	16.4	155
29	Near-field scanning optical microscopy in liquid for high resolution single molecule detection on dendritic cells. <i>FEBS Letters</i> , <b>2004</b> , 573, 6-10	3.8	91
28	Excitonic Behavior of Rhodamine Dimers: A Single-Molecule Study. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 43-52	2.8	86
27	Shear force imaging of soft samples in liquid using a diving bell concept. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5083-5085	3.4	53
26	Near-field effects in single molecule emission. <i>Journal of Microscopy</i> , <b>2001</b> , 202, 374-8	1.9	16
25	Moulded photoplastic probes for near-field optical applications. <i>Journal of Microscopy</i> , <b>2001</b> , 202, 16-21	1.9	19
24	Optical probing of single fluorescent molecules and proteins. <i>ChemPhysChem</i> , <b>2001</b> , 2, 347-60	3.2	36
23	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> , <b>2001</b> , 98, 14392-7	11.5	85
22	Looking at the photodynamics of individual fluorescent molecules and proteins. <i>Pure and Applied Chemistry</i> , <b>2001</b> , 73, 431-434	2.1	2
21	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> , <b>2000</b> , 97, 7237-42	11.5	159
20	Influencing the angular emission of a single molecule. <i>Physical Review Letters</i> , <b>2000</b> , 85, 5312-5	7.4	111
19	Time-Varying Triplet State Lifetimes of Single Molecules. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2155-2158	7.4	151
18	Single molecule mapping of the optical field distribution of probes for near-field microscopy. <i>Journal of Microscopy</i> , <b>1999</b> , 194, 477-82	1.9	95
17	Individual green fluorescent proteins (GFP) studied by near-field optical microscopy <b>1999</b> , 89-92		
16	DNA-protein interactions: single molecule spectroscopy and imaging <b>1999</b> , 273-274		
15	Visualising individual green fluorescent proteins with a near field optical microscope. <i>Cytometry</i> , <b>1999</b> , 36, 239-46		4
14	Near-field optical microscopy for DNA studies at the single molecular level. <i>Bioimaging</i> , <b>1998</b> , 6, 43-53		36

13	Near-field optical and shear-force microscopy of single fluorophores and DNA molecules. <i>Ultramicroscopy</i> , <b>1998</b> , 71, 311-9	3.1	18
12	Tuning fork shear-force feedback. <i>Ultramicroscopy</i> , <b>1998</b> , 71, 149-57	3.1	46
11	Nanotribological Properties of Octadecyltrichlorosilane Self-Assembled Ultrathin Films Studied by Atomic Force Microscopy: Contact and Tapping Modes. <i>Langmuir</i> , <b>1997</b> , 13, 2333-2339	4	49
10	Single Molecule Rotational and Translational Diffusion Observed by Near-Field Scanning Optical Microscopy. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 7318-7323	2.8	92
9	Near-field fluorescence imaging of genetic material: toward the molecular limit. <i>Journal of Structural Biology</i> , <b>1997</b> , 119, 222-31	3.4	37
8	Gold-coated parabolic tapers for scanning near-field optical microscopy: fabrication and optimisation. <i>Ultramicroscopy</i> , <b>1995</b> , 61, 155-163	3.1	29
7	Design and implementation of a combined scanning tunneling and near-field optical microscope. <i>Ultramicroscopy</i> , <b>1995</b> , 61, 253-258	3.1	4
6	Simultaneous scanning tunneling microscope and collection mode scanning near-field optical microscope using gold coated optical fiber probes. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 1498-1500	3.4	34
5	On the way to a multi-task near field optical microscope: Simultaneous STM/SNOM and PSTM imaging. <i>Microscopy Microanalysis Microstructures</i> , <b>1994</b> , 5, 399-407		5
4	Quantum pillar structures on n+ gallium arsenide fabricated using natural lithography. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 264-266	3.4	24
3	Ion implantation effects in polycrystalline WO <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 3509-3511	1.5	21
2	Phase separation of tunable biomolecular condensates predicted by an interacting particle model		3
1	Shear flow-driven actin re-organization induces ICAM-1 nanoclustering on endothelial cells that impact T-cell migration		1