Alessandra Cambi

List of Publications by Citations

125 papers	6,141 citations	42 h-index	76 g-index
174 ext. papers	6,873 ext. citations	5.4 avg, IF	5.44 L-index

#	Paper	IF	Citations
125	Human dectin-1 deficiency and mucocutaneous fungal infections. *New England Journal of Medicine*, **2009**, 361, 1760-7	59.2	573
124	How C-type lectins detect pathogens. *Cellular Microbiology*, **2005**, 7, 481-8	3.9	314
123	The C-type lectin DC-SIGN (CD209) is an antigen-uptake receptor for Candida albicans on dendritic cells. *European Journal of Immunology*, **2003**, 33, 532-8	6.1	298
122	NK cell activation by dendritic cells (DCs) requires the formation of a synapse leading to IL-12 polarization in DCs. *Blood*, **2004**, 104, 3267-75	2.2	276
121	Dual function of C-type lectin-like receptors in the immune system. *Current Opinion in Cell Biology*, **2003**, 15, 539-46	9	214
120	Biomolecular interactions measured by atomic force microscopy. *Biophysical Journal*, **2000**, 79, 3267-81	2.9	202
119	Microdomains of the C-type lectin DC-SIGN are portals for virus entry into dendritic cells. *Journal of Cell Biology*, **2004**, 164, 145-55	7.3	197
118	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
117	Dendritic cell interaction with Candida albicans critically depends on N-linked mannan. *Journal of Biological Chemistry*, **2008**, 283, 20590-9	5.4	174
116	Nanoclustering as a dominant feature of plasma membrane organization. *Journal of Cell Science*, **2014**, 127, 4995-5005	5.3	167
115	Cell biology beyond the diffraction limit: near-field scanning optical microscopy. *Journal of Cell Science*, **2001**, 114, 4153-4160	5.3	155
114	Yolk formation and degradation during oocyte maturation in seabream Sparus aurata: involvement of two lysosomal proteinases. *Biology of Reproduction*, **1999**, 60, 140-6	3.9	145
113	Cell biology beyond the diffraction limit: near-field scanning optical microscopy. *Journal of Cell Science*, **2001**, 114, 4153-60	5.3	115
112	DCIR is endocytosed into human dendritic cells and inhibits TLR8-mediated cytokine production. *Journal of Leukocyte Biology*, **2009**, 85, 518-25	6.5	107
111	Organization of the integrin LFA-1 in nanoclusters regulates its activity. *Molecular Biology of the Cell*, **2006**, 17, 4270-81	3.5	102
110	Interplay between myosin IIA-mediated contractility and actin network integrity orchestrates podosome composition and oscillations. *Nature Communications*, **2013**, 4, 1412	17.4	95
109	Ligand-conjugated quantum dots monitor antigen uptake and processing by dendritic cells. *Nano Letters*, **2007**, 7, 970-7	11.5	95

108	Interlaboratory round robin on cantilever calibration for AFM force spectroscopy. *Ultramicroscopy*, **2011**, 111, 1659-69	3.1	93
107	Relativistic and Mesonic Corrections to the Forward Cross Section for d(⃗p)n. *Physical Review Letters*, **1982**, 48, 462-465	7.4	92
106	Near-field scanning optical microscopy in liquid for high resolution single molecule detection on dendritic cells. *FEBS Letters*, **2004**, 573, 6-10	3.8	91
105	Targeting DC-SIGN via its neck region leads to prolonged antigen residence in early endosomes, delayed lysosomal degradation, and cross-presentation. *Blood*, **2011**, 118, 4111-9	2.2	90
104	Modulation of Toll-like receptor 2 (TLR2) and TLR4 responses by Aspergillus fumigatus. *Infection and Immunity*, **2009**, 77, 2184-92	3.7	86
103	Dual-color superresolution microscopy reveals nanoscale organization of mechanosensory podosomes. *Molecular Biology of the Cell*, **2013**, 24, 2112-23	3.5	85
102	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
101	Nanoscale organization of the pathogen receptor DC-SIGN mapped by single-molecule high-resolution fluorescence microscopy. *ChemPhysChem*, **2007**, 8, 1473-80	3.2	79
100	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
99	Changes of lysosomal enzyme activities in sea bass (Dicentrarchus labrax) eggs and developing embryos. *Aquaculture*, **2001**, 202, 249-256	4.4	72
98	Levels of complexity in pathogen recognition by C-type lectins. *Current Opinion in Immunology*, **2005**, 17, 345-51	7.8	66
97	The tetraspanin CD37 orchestrates the ⍺4⍺1 integrin-Akt signaling axis and supports long-lived plasma cell survival. *Science Signaling*, **2012**, 5, ra82	8.8	62
96	DEC-205 mediates antigen uptake and presentation by both resting and activated human plasmacytoid dendritic cells. *European Journal of Immunology*, **2011**, 41, 1014-23	6.1	56
95	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
94	Recombinant human cytidine deaminase: expression, purification, and characterization. *Protein Expression and Purification*, **1996**, 8, 247-53	2	55
93	Mast cells and dendritic cells form synapses that facilitate antigen transfer for T cell activation. *Journal of Cell Biology*, **2015**, 210, 851-64	7.3	53
92	Differential IL-17 production and mannan recognition contribute to fungal pathogenicity and commensalism. *Journal of Immunology*, **2010**, 184, 4258-68	5.3	53
91	Mast cell synapses and exosomes: membrane contacts for information exchange. *Frontiers in Immunology*, **2012**, 3, 46	8.4	52

90	Enhanced receptor-clathrin interactions induced by N-glycan-mediated membrane micropatterning. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11037-42	11.5	50
89	Podosomes of dendritic cells facilitate antigen sampling. *Journal of Cell Science*, **2014**, 127, 1052-1064	5.3	50
88	The C-type lectin DC-SIGN internalizes soluble antigens and HIV-1 virions via a clathrin-dependent mechanism. *European Journal of Immunology*, **2009**, 39, 1923-8	6.1	50
87	Necrosis: C-type lectins sense cell death. *Current Biology*, **2009**, 19, R375-8	6.3	47
86	Actomyosin-dependent dynamic spatial patterns of cytoskeletal components drive mesoscale podosome organization. *Nature Communications*, **2016**, 7, 13127	17.4	44
85	Substrate stiffness influences phenotype and function of human antigen-presenting dendritic cells. *Scientific Reports*, **2017**, 7, 17511	4.9	43
84	A nanometer scale optical view on the compartmentalization of cell membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 777-87	3.8	43
83	The formins FHOD1 and INF2 regulate inter- and intra-structural contractility of podosomes. *Journal of Cell Science*, **2016**, 129, 298-313	5.3	42
82	Changes in membrane sphingolipid composition modulate dynamics and adhesion of integrin nanoclusters. *Scientific Reports*, **2016**, 6, 20693	4.9	41
81	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
80	MT1-MMP directs force-producing proteolytic contacts that drive tumor cell invasion. *Nature Communications*, **2019**, 10, 4886	17.4	36
79	Nanoscale membrane organization: where biochemistry meets advanced microscopy. *ACS Chemical Biology*, **2012**, 7, 139-49	4.9	36
78	Relativistic effects in the forward deuteron photodisintegration cross section. *Journal of Physics G: Nuclear Physics*, **1984**, 10, L11-L15		36
77	Cloning, expression, and purification of cytidine deaminase from Arabidopsis thaliana. *Protein Expression and Purification*, **1999**, 15, 8-15	2	34
76	Distinct kinetic and mechanical properties govern ALCAM-mediated interactions as shown by single-molecule force spectroscopy. *Journal of Cell Science*, **2007**, 120, 3965-76	5.3	33
75	Dynamic coupling of ALCAM to the actin cortex strengthens cell adhesion to CD6. *Journal of Cell Science*, **2014**, 127, 1595-606	5.3	32
74	Super-Resolution Correlative Light and Electron Microscopy (SR-CLEM) Reveals Novel Ultrastructural Insights Into Dendritic Cell Podosomes. *Frontiers in Immunology*, **2018**, 9, 1908	8.4	31
73	CLEC12A-Mediated Antigen Uptake and Cross-Presentation by Human Dendritic Cell Subsets Efficiently Boost Tumor-Reactive T Cell Responses. *Journal of Immunology*, **2016**, 197, 2715-25	5.3	30

72	Modular actin nano-architecture enables podosome protrusion and mechanosensing. *Nature Communications*, **2019**, 10, 5171	17.4	29
71	The multiple faces of prostaglandin E2 G-protein coupled receptor signaling during the dendritic cell life cycle. *International Journal of Molecular Sciences*, **2013**, 14, 6542-55	6.3	29
70	Syntenin-1 and ezrin proteins link activated leukocyte cell adhesion molecule to the actin cytoskeleton. *Journal of Biological Chemistry*, **2014**, 289, 13445-60	5.4	28
69	Pseudo-Mannosylated DC-SIGN Ligands as Immunomodulants. *Scientific Reports*, **2016**, 6, 35373	4.9	25
68	Microdomains in the membrane landscape shape antigen-presenting cell function. *Journal of Leukocyte Biology*, **2014**, 95, 251-63	6.5	25
67	"Sweet talk": closing in on C type lectin signaling. *Immunity*, **2005**, 22, 399-400	32.3	25
66	Spatiotemporal organization and mechanosensory function of podosomes. *Cell Adhesion and Migration*, **2014**, 8, 268-72	3.2	24
65	Molecular friction as a tool to identify functionalized alkanethiols. *Langmuir*, **2010**, 26, 6357-66	4	24
64	Cross section and polarization in deuteron photodisintegration: General formulas. *Physical Review C* , **1982**, 26, 2358-2366	2.7	23
63	A comparison of the enantioselectivities of human deoxycytidine kinase and human cytidine deaminase. *Biochemical Pharmacology*, **1998**, 56, 1237-42	6	19
62	C-type lectins on dendritic cells and their interaction with pathogen-derived and endogenous glycoconjugates. *Current Protein and Peptide Science*, **2006**, 7, 283-94	2.8	19
61	Near-field fluorescence microscopy. *Nanobiotechnology*, **2005**, 1, 113-120		19
60	Podosomes revealed by advanced bioimaging: what did we learn?. *European Journal of Cell Biology*, **2014**, 93, 380-7	6.1	18
59	Gauge dependence of nonrelativistic calculations of deuteron photodisintegration. *Physical Review C*, **1990**, 41, 841-848	2.7	18
58	Identification of four amino acid residues essential for catalysis in human cytidine deaminase by site-directed mutagenesis and chemical modifications. *Protein Engineering, Design and Selection*, **1998**, 11, 59-63	1.9	17
57	EP4 receptor promotes invadopodia and invasion in human breast cancer. *European Journal of Cell Biology*, **2017**, 96, 218-226	6.1	16
56	Role for Mechanotransduction in Macrophage and Dendritic Cell Immunobiology. *Results and Problems in Cell Differentiation*, **2017**, 62, 209-242	1.4	16
55	Automated podosome identification and characterization in fluorescence microscopy images. *Microscopy and Microanalysis*, **2013**, 19, 180-9	0.5	16

54	A compact electron spectrometer for in-beam measurements of internal conversion coefficients. *Nuclear Instruments & Methods*, **1972**, 103, 331-335		16
53	The lymphoid chemokine CCL21 triggers LFA-1 adhesive properties on human dendritic cells. *Immunology and Cell Biology*, **2011**, 89, 458-65	5	15
52	Lifetime of the first excited state in 29P and 29Si. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1969**, 30, 94-96	4.2	15
51	N-glycan mediated adhesion strengthening during pathogen-receptor binding revealed by cell-cell force spectroscopy. *Scientific Reports*, **2017**, 7, 6713	4.9	14
50	Two-body effects in deuteron photoabsorption sum rules. *Physical Review C*, **1981**, 23, 992-1000	2.7	14
49	Possible role of two phenylalanine residues in the active site of human cytidine deaminase. *Protein Engineering, Design and Selection*, **2000**, 13, 791-9	1.9	13
48	AFM force spectroscopy reveals how subtle structural differences affect the interaction strength between Candida albicans and DC-SIGN. *Journal of Molecular Recognition*, **2015**, 28, 687-98	2.6	12
47	Single-molecule imaging technique to study the dynamic regulation of GPCR function at the plasma membrane. *Methods in Enzymology*, **2013**, 521, 47-67	1.7	11
46	Interleukin-4 alters early phagosome phenotype by modulating class I PI3K dependent lipid remodeling and protein recruitment. *PLoS ONE*, **2011**, 6, e22328	3.7	11
45	New and simple method for determination of 2-(3-benzoylphenyl)propionic acid in body fluid. *Journal of Pharmaceutical Sciences*, **1977**, 66, 281-2	3.9	11
44	Determination of ketoprofen by direct injection of deproteinized body fluids into a high-pressure liquid chromatographic system. *Journal of Pharmaceutical Sciences*, **1979**, 68, 366-8	3.9	11
43	Lifetimes of some levels in30P **1971**, 4, 45-60		11
42	Tissue remodeling by invadosomes. *Faculty Reviews*, **2021**, 10, 39	1.2	11
41	Intracellular Galectin-9 Controls Dendritic Cell Function by Maintaining Plasma Membrane Rigidity. *IScience*, **2019**, 22, 240-255	6.1	11
40	PLD-dependent phosphatidic acid microdomains are signaling platforms for podosome formation. *Scientific Reports*, **2019**, 9, 3556	4.9	10
39	Biological and Technical Challenges in Unraveling the Role of N-Glycans in Immune Receptor Regulation. *Frontiers in Chemistry*, **2020**, 8, 55	5	10
38	A method for spatially resolved local intracellular mechanochemical sensing and organelle manipulation. *Biophysical Journal*, **2012**, 103, 395-404	2.9	9
37	Dynamic re-organization of individual adhesion nanoclusters in living cells by ligand-patterned surfaces. *Small*, **2009**, 5, 1258-63	11	9

36	Strength of analogueE2 transitions in30Si and30P. *Lettere Al Nuovo Cimento Rivista Internazionale Della Societ□Italiana Di Fisica*, **1969**, 2, 775-779		9
35	The Localization of Alpha-synuclein in the Endocytic Pathway. *Neuroscience*, **2021**, 457, 186-195	3.9	9
34	Synthetic Semiflexible and Bioactive Brushes. *Biomacromolecules*, **2019**, 20, 2587-2597	6.9	8
33	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. *PLoS ONE*, **2014**, 9, e99589	3.7	8
32	Spin and parity of some excited states of48Sc. *Lettere Al Nuovo Cimento Rivista Internazionale Della Societ□Italiana Di Fisica*, **1971**, 2, 537-540		7
31	Biophysical Characterization of CD6-TCR/CD3 Interplay in T Cells. *Frontiers in Immunology*, **2018**, 9, 2333	8.4	7
30	AFM topography and friction studies of hydrogen-bonded bilayers of functionalized alkanethiols. *Soft Matter*, **2010**, 6, 3450	3.6	6
29	HPLC Analysis of Boldine in Tablets and Syrup. *Journal of Liquid Chromatography and Related Technologies*, **1992**, 15, 617-624		6
28	Cytidine deaminase from two extremophilic bacteria: cloning, expression and comparison of their structural stability. *Protein Engineering, Design and Selection*, **2001**, 14, 807-13	1.9	5
27	Doubly radiative np capture.M1-M1 transitions **1978**, 47, 421-429		5
26	Analysis of the decay of the two-neutron 8□state in176Yb **1967**, 52, 229-232		4
25	Detection of Fungi by Mannose-based Recognition Receptors **2007**, 293-307		4
24	Nanomedicine in cancer therapy: promises and hurdles of polymeric nanoparticles. *Exploration of Medicine*,	1.1	3
23	Certainty-based marking in a formative assessment improves student course appreciation but not summative examination scores. *BMC Medical Education*, **2019**, 19, 178	3.3	2
22	High Spatiotemporal Bioimaging Techniques to Study the Plasma Membrane Nanoscale Organization **2014**, 49-63		2
21	Meeting report--Visualizing signaling nanoplatforms at a higher spatiotemporal resolution. *Journal of Cell Science*, **2013**, 126, 3817-21	5.3	2
20	Proteome Based Construction of the Lymphocyte Function-Associated Antigen 1 (LFA-1) Interactome in Human Dendritic Cells. *PLoS ONE*, **2016**, 11, e0149637	3.7	2
19	Modular actin nano-architecture enables podosome protrusion and mechanosensing		2

18	Patient Trust and Participation in Cell Biological Research. *Trends in Cell Biology*, **2019**, 29, 765-767	18.3	1
17	Dual function of C-type lectin-like receptors in the immune system. *Current Opinion in Cell Biology*, **2003**, 15, 539-539	9	1
16	Relativistic effects in deuteron electrodisintegration. *European Physical Journal D*, **1986**, 36, 309-311		1
15	Reply to "Comment on Center-of-mass motion and Siegert's theorem". *Physical Review C*, **1988**, 38, 2976-2977	2.7	1
14	Relativistic effects in deuteron photoabsorption sum rules. *Journal of Physics G: Nuclear Physics*, **1985**, 11, 897-908		1
13	Consistency between pion exchange currents and NN potential in doubly radiative np capture. *Physical Review C*, **1980**, 21, 1921-1931	2.7	1
12	Chemo-mechanical Diffusion Waves Orchestrate Collective Dynamics of Immune Cell Podosomes		1
11	Intracellular Galectin-9 controls dendritic cell function by maintaining plasma membrane rigidity		1
10	Characterization of the Signaling Modalities of Prostaglandin E2 Receptors EP2 and EP4 Reveals Crosstalk and a Role for Microtubules. *Frontiers in Immunology*, **2020**, 11, 613286	8.4	1
9	Role of glutamate-67 in the catalytic mechanism of human cytidine deaminase. *Advances in Experimental Medicine and Biology*, **1998**, 431, 287-91	3.6	1
8	The Therapeutic Potential of Tackling Tumor-Induced Dendritic Cell Dysfunction in Colorectal Cancer. *Frontiers in Immunology*, **2021**, 12, 724883	8.4	0
7	Binding and uptake of Candida albicans by human monocyte-derived dendritic cells. *Methods in Molecular Biology*, **2012**, 845, 319-31	1.4	
6	Human placenta cytidine deaminase: a zinc metalloprotein. *IUBMB Life*, **1997**, 42, 469-76	4.7	
5	High-performance liquid chromatographic determination of phosphocreatinine and creatinine in pharmaceutical preparations. *Journal of Chromatography A*, **1979**, 179, 365-369	4.5	
4	Two-body modifications of the Siegert dipole operator and doubly radiative n-p capture. *Nuclear Physics A*, **1981**, 356, 469-482	1.3	
3	A symbiosis: tracking cell signaling with expression probes, quantum dots and a programmable array microscope (PAM) **2008**, 335-336		
2	Studies on cysteine residues involved in the active site of human cytidine deaminase. *Advances in Experimental Medicine and Biology*, **1998**, 431, 305-8	3.6	
1	C-Type Lectins: Multifaceted Receptors in Phagocyte Biology123-135		