Pietro De Camilli

List of Publications by Year
in descending order

127	22,988	15504 65	17592 121
papers	citations	h-index	g-index

148	148	148	22626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phosphoinositides in cell regulation and membrane dynamics. Nature, 2006, 443, 651-657.	27.8	2,407
2	The BioPlex Network: A Systematic Exploration of the Human Interactome. Cell, 2015, 162, 425-440.	28.9	1,241
3	Botulinum neurotoxin A selectively cleaves the synaptic protein SNAP-25. Nature, 1993, 365, 160-163.	27.8	1,145
4	Essential Role of Phosphoinositide Metabolism in Synaptic Vesicle Recycling. Cell, 1999, 99, 179-188.	28.9	760
5	Tubular membrane invaginations coated by dynamin rings are induced by GTP-Î³S in nerve terminals. Nature, 1995, 374, 186-190.	27.8	756
6	Functional partnership between amphiphysin and dynamin in clathrin-mediated endocytosis. Nature Cell Biology, 1999, 1, 33-39.	10.3	703
7	A presynaptic inositol-5-phosphatase. Nature, 1996, 379, 353-357.	27.8	586
8	Putative receptor for inositol 1,4,5-trisphosphate similar to ryanodine receptor. Nature, 1989, 342, 192-195.	27.8	547
9	Epsin is an EH-domain-binding protein implicated in clathrin-mediated endocytosis. Nature, 1998, 394, 793-797.	27.8	520
10	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. Neuron, 2019, 103, 217-234.e4.	8.1	518
11	PI(4,5)P2-Dependent and Ca2+-Regulated ER-PM Interactions Mediated by the Extended Synaptotagmins. Cell, 2013, 153, 1494-1509.	28.9	495
12	PI4P/phosphatidylserine countertransport at ORP5- and ORP8-mediated ERâ€“plasma membrane contacts. Science, 2015, 349, 428-432.	12.6	479
13	The role of Rab3A in neurotransmitter release. Nature, 1994, 369, 493-497.	27.8	471
14	Accessory factors in clathrin-dependent synaptic vesicle endocytosis. Nature Reviews Neuroscience, 2000, 1, 161-172.	10.2	465
15	A Selective Activity-Dependent Requirement for Dynamin 1 in Synaptic Vesicle Endocytosis. Science, 2007, 316, 570-574.	12.6	454
16	VPS13A and VPS13C are lipid transport proteins differentially localized at ER contact sites. Journal of Cell Biology, 2018, 217, 3625-3639.	5.2	414
17	Membrane fission by dynamin: what we know and what we need to know. EMBO Journal, 2016, 35, 2270-2284.	7.8	388
18	Contacts between the endoplasmic reticulum and other membranes in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4859-E4867.	7.1	378

#	Article	IF	Citations
19	A liquid phase of synapsin and lipid vesicles. Science, 2018, 361, 604-607.	12.6	344
20	Generation of Coated Intermediates of Clathrin-Mediated Endocytosis on Protein-Free Liposomes. Cell, 1998, 94, 131-141.	28.9	342
21	Synaptic Vesicle Endocytosis. Cold Spring Harbor Perspectives in Biology, 2012, 4, a005645-a005645.	5.5	342
22	Endosome-ER Contacts Control Actin Nucleation and Retromer Function through VAP-Dependent Regulation of PI4P. Cell, 2016, 166, 408-423.	28.9	315
23	Massive accumulation of luminal protease-deficient axonal lysosomes at Alzheimerâ€™s disease amyloid plaques. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3699-708.	7.1	313
24	A Phosphoinositide Switch Controls the Maturation and Signaling Properties of APPL Endosomes. Cell, 2009, 136, 1110-1121.	28.9	311
25	The Sac1 Domain of <scp>SYNJ</scp> 1 Identified Mutated in a Family with Earlyâ€Onset Progressive <scp>P</scp> arkinsonism with Generalized Seizures. Human Mutation, 2013, 34, 1200-1207.	2.5	302
26	Recruitment of Endophilin to Clathrin-Coated Pit Necks Is Required for Efficient Vesicle Uncoating after Fission. Neuron, 2011, 72, 587-601.	8.1	294
27	The Synapsins. Annual Review of Cell Biology, 1990, 6, 433-460.	26.1	279
28	Fission and Uncoating of Synaptic Clathrin-Coated Vesicles Are Perturbed by Disruption of Interactions with the SH3 Domain of Endophilin. Neuron, 2000, 27, 301-312.	8.1	276
29	Structure of a lipid-bound extended synaptotagmin indicates a role in lipid transfer. Nature, 2014, 510, 552-555.	27.8	276
30	Dopamine inhibits adenylate cyclase in human prolactin-secreting pituitary adenomas. Nature, 1979, 278, 252-254.	27.8	269
31	Optogenetic control of phosphoinositide metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2316-23.	7.1	262
32	Endoplasmic Reticulumâ€“Plasma Membrane Contact Sites. Annual Review of Biochemistry, 2017, 86, 659-684.	11.1	257
33	PtdIns4P synthesis by PI4KIIIÎ± at the plasma membrane and its impact on plasma membrane identity. Journal of Cell Biology, 2012, 199, 1003-1016.	5.2	246
34	Control of plasma membrane lipid homeostasis by the extended synaptotagmins. Nature Cell Biology, 2016, 18, 504-515.	10.3	219
35	Three-dimensional architecture of extended synaptotagmin-mediated endoplasmic reticulumâ€“plasma membrane contact sites. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2004-13.	7.1	185
36	AP-2 Recruitment to Synaptotagmin Stimulated by Tyrosine-Based Endocytic Motifs. Science, 1999, 285, 1268-1271.	12.6	176

#	Article	IF	Citations
37	Lipid transport by TMEM24 at ERâ€“plasma membrane contacts regulates pulsatile insulin secretion. Science, 2017, 355, .	12.6	172
38	A role for synaptic vesicles in nonâ€neuronal cells: clues from pancreatic Î² cells and from chromaffin cells. FASEB Journal, 1994, 8, 209-216.	0.5	168
39	Synaptojanin 1: localization on coated endocytic intermediates in nerve terminals and interaction of its 170 kDa isoform with Eps15. FEBS Letters, 1997, 419, 175-180.	2.8	152
40	Triggered Ca ²⁺ influx is required for extended synaptotagmin 1â€induced <scp>ER</scp> â€plasma membrane tethering. EMBO Journal, 2015, 34, 2291-2305.	7.8	144
41	Coupling between clathrin-dependent endocytic budding and F-BAR-dependent tubulation in a cell-free system. Nature Cell Biology, 2010, 12, 902-908.	10.3	143
42	Cell- and stimulus-dependent heterogeneity of synaptic vesicle endocytic recycling mechanisms revealed by studies of dynamin 1-null neurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2175-2180.	7.1	141
43	Autoimmunity in Stiffâ€Man Syndrome with breast cancer is targeted to the Câ€terminal region of human amphiphysin, a protein similar to the yeast proteins, Rvs167 and Rvs161. FEBS Letters, 1994, 351, 73-79.	2.8	137
44	Parkinson Sac Domain Mutation in Synaptojanin 1 Impairs Clathrin Uncoating at Synapses and Triggers Dystrophic Changes in Dopaminergic Axons. Neuron, 2017, 93, 882-896.e5.	8.1	136
45	Glutamate regulates actin-based motility in axonal filopodia. Nature Neuroscience, 2001, 4, 787-793.	14.8	135
46	The ENTH domain. FEBS Letters, 2002, 513, 11-18.	2.8	131
47	Functional Characterization of a Mammalian Sac1 and Mutants Exhibiting Substrate-specific Defects in Phosphoinositide Phosphatase Activity. Journal of Biological Chemistry, 2000, 275, 34293-34305.	3.4	123
48	Endocytosis and clathrin-uncoating defects at synapses of auxilin knockout mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4412-4417.	7.1	119
49	A mammalian guanine-nucleotide-releasing protein enhances function of yeast secretory protein Sec4. Nature, 1993, 361, 464-467.	27.8	118
50	Ca ²⁺ releases Eâ€Syt1 autoinhibition to couple <scp>ER</scp> â€plasma membrane tethering with lipid transport. EMBO Journal, 2018, 37, 219-234.	7.8	110
51	Inositol 5-phosphatases: insights from the Lowe syndrome protein OCRL. Trends in Biochemical Sciences, 2012, 37, 134-143.	7.5	104
52	Epsin deficiency impairs endocytosis by stalling the actin-dependent invagination of endocytic clathrin-coated pits. ELife, 2014, 3, e03311.	6.0	101
53	Arf1-GTP-induced Tubule Formation Suggests a Function of Arf Family Proteins in Curvature Acquisition at Sites of Vesicle Budding. Journal of Biological Chemistry, 2008, 283, 27717-27723.	3.4	100
54	A role of OCRL in clathrin-coated pit dynamics and uncoating revealed by studies of Lowe syndrome cells. ELife, 2014, 3, e02975.	6.0	97

#	Article	IF	Citations
55	Nanoscale subcellular architecture revealed by multicolor three-dimensional salvaged fluorescence imaging. Nature Methods, 2020, 17, 225-231.	19.0	95
56	Coupling between endocytosis and sphingosine kinase 1 recruitment. Nature Cell Biology, 2014, 16, 652-662.	10.3	93
57	VPS13D bridges the ER to mitochondria and peroxisomes via Miro. Journal of Cell Biology, 2021, 220, .	5.2	93
58	A dynamin 1-, dynamin 3- and clathrin-independent pathway of synaptic vesicle recycling mediated by bulk endocytosis. ELife, 2014, 3, e01621.	6.0	93
59	The leukodystrophy protein FAM126A (hyccin) regulates PtdIns(4)P synthesis at the plasmaÂmembrane. Nature Cell Biology, 2016, 18, 132-138.	10.3	91
60	Synaptic Vesicle Clusters at Synapses: A Distinct Liquid Phase?. Neuron, 2017, 93, 995-1002.	8.1	89
61	Multiphasic dynamics of phosphatidylinositol 4-phosphate during phagocytosis. Molecular Biology of the Cell, 2017, 28, 128-140.	2.1	85
62	SMP-domain proteins at membrane contact sites: Structure and function. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 924-927.	2.4	80
63	The Extended-Synaptotagmins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1490-1493.	4.1	77
64	Dynamin and endocytosis are required for the fusion of osteoclasts and myoblasts. Journal of Cell Biology, 2014, 207, 73-89.	5.2	75
65	Detection and manipulation of phosphoinositides. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 736-745.	2.4	75
66	Sac2/INPP5F is an inositol 4-phosphatase that functions in the endocytic pathway. Journal of Cell Biology, 2015, 209, 85-95.	5.2	75
67	Light-activated protein interaction with high spatial subcellular confinement. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2238-E2245.	7.1	75
68	Loss of SYNJ1 dual phosphatase activity leads to early onset refractory seizures and progressive neurological decline. Brain, 2016, 139, 2420-2430.	7.6	70
69	Insights into VPS13 properties and function reveal a new mechanism of eukaryotic lipid transport. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 159003.	2.4	67
70	A programmable DNA-origami platform for studying lipid transfer between bilayers. Nature Chemical Biology, 2019, 15, 830-837.	8.0	66
71	Exocytosis goes with a SNAP. Nature, 1993, 364, 387-388.	27.8	65
72	The Eps15 C. elegans homologue EHS-1 is implicated in synaptic vesicle recycling. Nature Cell Biology, 2001, 3, 755-760.	10.3	65

#	Article	IF	Citations
73	Membrane dynamics and organelle biogenesisâ€"lipid pipelines and vesicular carriers. BMC Biology, 2017, 15, 102.	3.8	63
74	Structural Insights into Assembly and Regulation of the Plasma Membrane Phosphatidylinositol 4-Kinase Complex. Developmental Cell, 2014, 28, 19-29.	7.0	59
75	Single-molecule force spectroscopy of protein-membrane interactions. ELife, 2017, 6, .	6.0	59
76	PDZD8 mediates a Rab7-dependent interaction of the ER with late endosomes and lysosomes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22619-22623.	7.1	57
77	Architecture of the human PI4KIIIÎ± lipid kinase complex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13720-13725.	7.1	54
78	Specificity of the Binding of Synapsin I to Src Homology 3 Domains. Journal of Biological Chemistry, 2000, 275, 29857-29867.	3.4	52
79	Upregulation of Parkin in Endophilin Mutant Mice. Journal of Neuroscience, 2014, 34, 16544-16549.	3.6	50
80	SnapShot: Membrane Curvature Sensors and Generators. Cell, 2012, 150, 1300-1300.e2.	28.9	49
81	Synaptojanin 1 Contributes to Maintaining the Stability of GABAergic Transmission in Primary Cultures of Cortical Neurons. Journal of Neuroscience, 2001, 21, 9101-9111.	3.6	48
82	Role of VPS13, a protein with similarity to ATG2, in physiology and disease. Current Opinion in Genetics and Development, 2020, 65, 61-68.	3.3	48
83	Yeast protein translocation complex: Isolation of two genes SEB1 and SEB2 encoding proteins homologous to the Sec61Î² subunit. Yeast, 1996, 12, 425-438.	1.7	47
84	Cooperative function of synaptophysin and synapsin in the generation ofÂsynaptic vesicle-like clusters in non-neuronal cells. Nature Communications, 2021, 12, 263.	12.8	47
85	Dynamin 2-dependent endocytosis sustains T-cell receptor signaling and drives metabolic reprogramming in T lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4423-4428.	7.1	46
86	Lipid transporter TMEM24/C2CD2L is a Ca ²⁺ -regulated component of ERâ€"plasma membrane contacts in mammalian neurons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5775-5784.	7.1	44
87	Dynamic instability of clathrin assembly provides proofreading control for endocytosis. Journal of Cell Biology, 2019, 218, 3200-3211.	5.2	41
88	Presynaptic autophagy is coupled to the synaptic vesicle cycle via ATG-9. Neuron, 2022, 110, 824-840.e10.	8.1	41
89	Structural inhibition of dynamin-mediated membrane fission by endophilin. ELife, 2017, 6, .	6.0	40
90	The inositol 5-phosphatase INPP5K participates in the fine control of ER organization. Journal of Cell Biology, 2018, 217, 3577-3592.	5.2	39

#	Article	IF	Citations
91	Identification and characterization of homologues of the Exocyst component Sec10p. FEBS Letters, 1997, 404, 135-139.	2.8	38
92	Optimized Vivid-derived Magnets photodimerizers for subcellular optogenetics in mammalian cells. ELife, 2020, 9, .	6.0	37
93	The endocytic activity of the flagellar pocket in Trypanosoma brucei is regulated by an adjacent phosphatidylinositol phosphate kinase. Journal of Cell Science, 2014, 127, 2351-64.	2.0	35
94	ER-lysosome lipid transfer protein VPS13C/PARK23 prevents aberrant mtDNA-dependent STING signaling. Journal of Cell Biology, 2022, 221, .	5.2	34
95	Absence of Sac2/INPP5F enhances the phenotype of a Parkinsonâ€™s disease mutation of synaptojanin 1. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12428-12434.	7.1	30
96	Spotlight on a neuronal enzyme. Nature, 1993, 366, 15-17.	27.8	29
97	Rare deleterious mutations of the gene EFR3A in autism spectrum disorders. Molecular Autism, 2014, 5, 31.	4.9	27
98	In situ architecture of the lipid transport protein VPS13C at ERâ€“lysosome membrane contacts. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	27
99	Coxsackieviruses and diabetes. Nature Medicine, 1995, 1, 25-26.	30.7	25
100	Keeping synapses up to speed. Nature, 1995, 375, 450-451.	27.8	25
101	Molecular mechanisms in synaptic vesicle recycling. Journal of Neurocytology, 1996, 25, 701-715.	1.5	24
102	Essential Function of Dynamin in the Invasive Properties and Actin Architecture of v-Src Induced Podosomes/Invadosomes. PLoS ONE, 2013, 8, e77956.	2.5	24
103	Molecular determinants of homo- and heteromeric interactions of Junctophilin-1 at triads in adult skeletal muscle fibers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15716-15724.	7.1	24
104	Calcium Dependence of Synaptic Vesicle Recycling Before and After Synaptogenesis. Journal of Neurochemistry, 1998, 71, 1987-1992.	3.9	23
105	Stepwise membrane binding of extended synaptotagmins revealed by optical tweezers. Nature Chemical Biology, 2022, 18, 313-320.	8.0	21
106	Biallelic PI4KA variants cause neurological, intestinal and immunological disease. Brain, 2021, 144, 3597-3610.	7.6	17
107	InsP3 receptor turnaround. Nature, 1990, 344, 495-495.	27.8	16
108	Intraneuronal Traffickina and Distribution of Amphiphysin and Synaptojanin in thg Rat Peripheral Nervous System and the Spinal Cord. European Journal of Neuroscience, 1997, 9, 1864-1874.	2.6	15

#	Article	IF	Citations
109	A lentiviral system for efficient knockdown of proteins in neuronal cultures. MNI Open Research, 2017, 1, 2.	1.0	13
110	SHIP164 is a chorein motif lipid transfer protein that controls endosomeâ€“Golgi membrane traffic. Journal of Cell Biology, 2022, 221, .	5.2	12
111	JIP3 links lysosome transport to regulation of multiple components of the axonal cytoskeleton. Communications Biology, 2022, 5, 5.	4.4	10
112	Supported Native Plasma Membranes as Platforms for the Reconstitution and Visualization of Endocytic Membrane Budding. Methods in Cell Biology, 2012, 108, 1-18.	1.1	8
113	Loss of Dynamin 2 <scp>GTP</scp>ase function results in microcytic anaemia. British Journal of Haematology, 2017, 178, 616-628.	2.5	7
114	Manipulation of Plasma Membrane Phosphoinositides Using Photoinduced Proteinâ€“Protein Interactions. Methods in Molecular Biology, 2014, 1148, 109-128.	0.9	7
115	Kv2 potassium channels meet VAP. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7849-7851.	7.1	6
116	In Vitro Assays to Measure the Membrane Tethering and Lipid Transport Activities of the Extended Synaptotagmins. Methods in Molecular Biology, 2019, 1949, 201-212.	0.9	6
117	From Th1 to Th2: Diabetes immunotherapy shifts gears. Nature Medicine, 1996, 2, 1311-1312.	30.7	5
118	Molecular mechanisms in membrane traffic at the neuronal synapse: role of protein-lipid interactions. Harvey Lectures, 2004, 100, 1-28.	0.2	3
119	Lowe syndromeâ€“linked endocytic adaptors direct membrane cycling kinetics with OCRL inDictyostelium discoideum. Molecular Biology of the Cell, 2019, 30, 2268-2282.	2.1	2
120	Paul Greengard (1925â€“2019). Science, 2019, 364, 740-740.	12.6	2
121	Recruitment and regulation of phosphatidylinositol phosphate kinase type 1Î³ by the FERM domain of talin. , 0, .		1
122	Multimodal imaging of synaptic vesicles with a single probe. Cell Reports Methods, 2022, 2, 100199.	2.9	1
123	FIB-SEM 3D CLEM of Cultured Cells. Microscopy and Microanalysis, 2019, 25, 1044-1045.	0.4	0
124	Molecular mechanisms in endocytosis at neuronal synapses. FASEB Journal, 2008, 22, 250.3.	0.5	0
125	How a first research experience had an impact on my scientific journey. Molecular Biology of the Cell, 2021, 32, ae1.	2.1	0
126	Special issue entitled Lipid transporters edited by Shamshad Cockcroft and Padinjat Raghu. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159152.	2.4	0

#	Article	IF	Citations
127	SHIP164 is a Chorein Motif Lipid Transfer Protein that Controls Endosomeâ€Golgi Membrane Traffic. FASEB Journal, 2022, 36, .	0.5	0