Pietro De Camilli

List of Publications by Year
in descending order

127	22,988	17776 65	20625 120
papers	citations	h-index	g-index

148	148	148	25064
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	JIP3 links lysosome transport to regulation of multiple components of the axonal cytoskeleton. Communications Biology, 2022, 5, 5.	2.0	10
2	Presynaptic autophagy is coupled to the synaptic vesicle cycle via ATG-9. Neuron, 2022, 110, 824-840.e10.	3.8	41
3	Stepwise membrane binding of extended synaptotagmins revealed by optical tweezers. Nature Chemical Biology, 2022, 18, 313-320.	3.9	21
4	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.	1.2	0
5	Multimodal imaging of synaptic vesicles with a single probe. Cell Reports Methods, 2022, 2, 100199.	1.4	1
6	SHIP164 is a chorein motif lipid transfer protein that controls endosomeâ€“Golgi membrane traffic. Journal of Cell Biology, 2022, 221, .	2.3	12
7	SHIP164 is a Chorein Motif Lipid Transfer Protein that Controls Endosomeâ€Golgi Membrane Traffic. FASEB Journal, 2022, 36, .	0.2	0
8	ER-lysosome lipid transfer protein VPS13C/PARK23 prevents aberrant mtDNA-dependent STING signaling. Journal of Cell Biology, 2022, 221, .	2.3	34
9	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, .	3.3	27
10	Cooperative function of synaptophysin and synapsin in the generation ofÂsynaptic vesicle-like clusters in non-neuronal cells. Nature Communications, 2021, 12, 263.	5.8	47
11	VPS13D bridges the ER to mitochondria and peroxisomes via Miro. Journal of Cell Biology, 2021, 220, .	2.3	93
12	Biallelic PI4KA variants cause neurological, intestinal and immunological disease. Brain, 2021, 144, 3597-3610.	3.7	17
13	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.	1.2	67
14	How a first research experience had an impact on my scientific journey. Molecular Biology of the Cell, 2021, 32, ae1.	0.9	0
15	Nanoscale subcellular architecture revealed by multicolor three-dimensional salvaged fluorescence imaging. Nature Methods, 2020, 17, 225-231.	9.0	95
16	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.	3.3	30
17	Role of VPS13, a protein with similarity to ATG2, in physiology and disease. Current Opinion in Genetics and Development, 2020, 65, 61-68.	1.5	48
18	Optimized Vivid-derived Magnets photodimerizers for subcellular optogenetics in mammalian cells. ELife, 2020, 9, .	2.8	37

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19	A programmable DNA-origami platform for studying lipid transfer between bilayers. Nature Chemical Biology, 2019, 15, 830-837.	3.9	66
20	Lowe syndromeâ€“linked endocytic adaptors direct membrane cycling kinetics with OCRL inDictyostelium discoideum. Molecular Biology of the Cell, 2019, 30, 2268-2282.	0.9	2
21	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.	3.3	24
22	FIB-SEM 3D CLEM of Cultured Cells. Microscopy and Microanalysis, 2019, 25, 1044-1045.	0.2	0
23	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.	3.3	57
24	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. Neuron, 2019, 103, 217-234.e4.	3.8	518
25	Paul Greengard (1925â€“2019). Science, 2019, 364, 740-740.	6.0	2
26	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.	3.3	44
27	In Vitro Assays to Measure the Membrane Tethering and Lipid Transport Activities of the Extended Synaptotagmins. Methods in Molecular Biology, 2019, 1949, 201-212.	0.4	6
28	Dynamic instability of clathrin assembly provides proofreading control for endocytosis. Journal of Cell Biology, 2019, 218, 3200-3211.	2.3	41
29	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.	3.3	75
30	Ca ²⁺ releases Eâ€Syt1 autoinhibition to couple <scp>ER</scp> â€plasma membrane tethering with lipid transport. EMBO Journal, 2018, 37, 219-234.	3.5	110
31	A liquid phase of synapsin and lipid vesicles. Science, 2018, 361, 604-607.	6.0	344
32	Kv2 potassium channels meet VAP. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7849-7851.	3.3	6
33	The inositol 5-phosphatase INPP5K participates in the fine control of ER organization. Journal of Cell Biology, 2018, 217, 3577-3592.	2.3	39
34	VPS13A and VPS13C are lipid transport proteins differentially localized at ER contact sites. Journal of Cell Biology, 2018, 217, 3625-3639.	2.3	414
35	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.	3.8	136
36	Lipid transport by TMEM24 at ERâ€“plasma membrane contacts regulates pulsatile insulin secretion. Science, 2017, 355, .	6.0	172

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37	Synaptic Vesicle Clusters at Synapses: A Distinct Liquid Phase?. Neuron, 2017, 93, 995-1002.	3.8	89
38	Endoplasmic Reticulumâ€“Plasma Membrane Contact Sites. Annual Review of Biochemistry, 2017, 86, 659-684.	5.0	257
39	Loss of Dynamin 2 <scp>GTP</scp>ase function results in microcytic anaemia. British Journal of Haematology, 2017, 178, 616-628.	1.2	7
40	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.	3.3	378
41	The Extended-Synaptotagmins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1490-1493.	1.9	77
42	Multiphasic dynamics of phosphatidylinositol 4-phosphate during phagocytosis. Molecular Biology of the Cell, 2017, 28, 128-140.	0.9	85
43	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.	3.3	54
44	Single-molecule force spectroscopy of protein-membrane interactions. ELife, 2017, 6, .	2.8	59
45	Membrane dynamics and organelle biogenesisâ€”lipid pipelines and vesicular carriers. BMC Biology, 2017, 15, 102.	1.7	63
46	A lentiviral system for efficient knockdown of proteins in neuronal cultures. MNI Open Research, 2017, 1, 2.	1.0	13
47	Structural inhibition of dynamin-mediated membrane fission by endophilin. ELife, 2017, 6, .	2.8	40
48	Membrane fission by dynamin: what we know and what we need to know. EMBO Journal, 2016, 35, 2270-2284.	3.5	388
49	Control of plasma membrane lipid homeostasis by the extended synaptotagmins. Nature Cell Biology, 2016, 18, 504-515.	4.6	219
50	Loss of SYNJ1 dual phosphatase activity leads to early onset refractory seizures and progressive neurological decline. Brain, 2016, 139, 2420-2430.	3.7	70
51	Endosome-ER Contacts Control Actin Nucleation and Retromer Function through VAP-Dependent Regulation of PI4P. Cell, 2016, 166, 408-423.	13.5	315
52	SMP-domain proteins at membrane contact sites: Structure and function. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 924-927.	1.2	80
53	The leukodystrophy protein FAM126A (hyccin) regulates PtdIns(4)P synthesis at the plasmaÂmembrane. Nature Cell Biology, 2016, 18, 132-138.	4.6	91
54	Triggered Ca ²⁺ influx is required for extended synaptotagmin 1â€induced <scp>ER</scp> â€plasma membrane tethering. EMBO Journal, 2015, 34, 2291-2305.	3.5	144

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55	Detection and manipulation of phosphoinositides. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 736-745.	1.2	75
56	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.	3.3	313
57	PI4P/phosphatidylserine countertransport at ORP5- and ORP8-mediated ERâ€“plasma membrane contacts. Science, 2015, 349, 428-432.	6.0	479
58	The BioPlex Network: A Systematic Exploration of the Human Interactome. Cell, 2015, 162, 425-440.	13.5	1,241
59	Sac2/INPP5F is an inositol 4-phosphatase that functions in the endocytic pathway. Journal of Cell Biology, 2015, 209, 85-95.	2.3	75
60	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.	3.3	185
61	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.	3.3	46
62	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.	1.2	35
63	Upregulation of Parkin in Endophilin Mutant Mice. Journal of Neuroscience, 2014, 34, 16544-16549.	1.7	50
64	Structural Insights into Assembly and Regulation of the Plasma Membrane Phosphatidylinositol 4-Kinase Complex. Developmental Cell, 2014, 28, 19-29.	3.1	59
65	Dynamin and endocytosis are required for the fusion of osteoclasts and myoblasts. Journal of Cell Biology, 2014, 207, 73-89.	2.3	75
66	Rare deleterious mutations of the gene EFR3A in autism spectrum disorders. Molecular Autism, 2014, 5, 31.	2.6	27
67	Structure of a lipid-bound extended synaptotagmin indicates a role in lipid transfer. Nature, 2014, 510, 552-555.	13.7	276
68	Coupling between endocytosis and sphingosine kinase 1 recruitment. Nature Cell Biology, 2014, 16, 652-662.	4.6	93
69	Manipulation of Plasma Membrane Phosphoinositides Using Photoinduced Proteinâ€“Protein Interactions. Methods in Molecular Biology, 2014, 1148, 109-128.	0.4	7
70	A dynamin 1-, dynamin 3- and clathrin-independent pathway of synaptic vesicle recycling mediated by bulk endocytosis. ELife, 2014, 3, e01621.	2.8	93
71	A role of OCRL in clathrin-coated pit dynamics and uncoating revealed by studies of Lowe syndrome cells. ELife, 2014, 3, e02975.	2.8	97
72	Epsin deficiency impairs endocytosis by stalling the actin-dependent invagination of endocytic clathrin-coated pits. ELife, 2014, 3, e03311.	2.8	101

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73	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.	1.1	302
74	PI(4,5)P2-Dependent and Ca2+-Regulated ER-PM Interactions Mediated by the Extended Synaptotagmins. Cell, 2013, 153, 1494-1509.	13.5	495
75	Essential Function of Dynamin in the Invasive Properties and Actin Architecture of v-Src Induced Podosomes/Invadosomes. PLoS ONE, 2013, 8, e77956.	1.1	24
76	SnapShot: Membrane Curvature Sensors and Generators. Cell, 2012, 150, 1300-1300.e2.	13.5	49
77	PtdIns4P synthesis by PI4KIIIÎ± at the plasma membrane and its impact on plasma membrane identity. Journal of Cell Biology, 2012, 199, 1003-1016.	2.3	246
78	Synaptic Vesicle Endocytosis. Cold Spring Harbor Perspectives in Biology, 2012, 4, a005645-a005645.	2.3	342
79	Optogenetic control of phosphoinositide metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2316-23.	3.3	262
80	Supported Native Plasma Membranes as Platforms for the Reconstitution and Visualization of Endocytic Membrane Budding. Methods in Cell Biology, 2012, 108, 1-18.	0.5	8
81	Inositol 5-phosphatases: insights from the Lowe syndrome protein OCRL. Trends in Biochemical Sciences, 2012, 37, 134-143.	3.7	104
82	Recruitment of Endophilin to Clathrin-Coated Pit Necks Is Required for Efficient Vesicle Uncoating after Fission. Neuron, 2011, 72, 587-601.	3.8	294
83	Coupling between clathrin-dependent endocytic budding and F-BAR-dependent tubulation in a cell-free system. Nature Cell Biology, 2010, 12, 902-908.	4.6	143
84	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.	3.3	119
85	A Phosphoinositide Switch Controls the Maturation and Signaling Properties of APPL Endosomes. Cell, 2009, 136, 1110-1121.	13.5	311
86	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.	1.6	100
87	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.	3.3	141
88	Molecular mechanisms in endocytosis at neuronal synapses. FASEB Journal, 2008, 22, 250.3.	0.2	0
89	A Selective Activity-Dependent Requirement for Dynamin 1 in Synaptic Vesicle Endocytosis. Science, 2007, 316, 570-574.	6.0	454
90	Phosphoinositides in cell regulation and membrane dynamics. Nature, 2006, 443, 651-657.	13.7	2,407

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91	Molecular mechanisms in membrane traffic at the neuronal synapse: role of protein-lipid interactions. Harvey Lectures, 2004, 100, 1-28.	0.2	3
92	The ENTH domain. FEBS Letters, 2002, 513, 11-18.	1.3	131
93	Synaptojanin 1 Contributes to Maintaining the Stability of GABAergic Transmission in Primary Cultures of Cortical Neurons. Journal of Neuroscience, 2001, 21, 9101-9111.	1.7	48
94	Glutamate regulates actin-based motility in axonal filopodia. Nature Neuroscience, 2001, 4, 787-793.	7.1	135
95	The Eps15 C. elegans homologue EHS-1 is implicated in synaptic vesicle recycling. Nature Cell Biology, 2001, 3, 755-760.	4.6	65
96	Accessory factors in clathrin-dependent synaptic vesicle endocytosis. Nature Reviews Neuroscience, 2000, 1, 161-172.	4.9	465
97	Functional Characterization of a Mammalian Sac1 and Mutants Exhibiting Substrate-specific Defects in Phosphoinositide Phosphatase Activity. Journal of Biological Chemistry, 2000, 275, 34293-34305.	1.6	123
98	Specificity of the Binding of Synapsin I to Src Homology 3 Domains. Journal of Biological Chemistry, 2000, 275, 29857-29867.	1.6	52
99	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.	3.8	276
100	Functional partnership between amphiphysin and dynamin in clathrin-mediated endocytosis. Nature Cell Biology, 1999, 1, 33-39.	4.6	703
101	AP-2 Recruitment to Synaptotagmin Stimulated by Tyrosine-Based Endocytic Motifs. Science, 1999, 285, 1268-1271.	6.0	176
102	Essential Role of Phosphoinositide Metabolism in Synaptic Vesicle Recycling. Cell, 1999, 99, 179-188.	13.5	760
103	Epsin is an EH-domain-binding protein implicated in clathrin-mediated endocytosis. Nature, 1998, 394, 793-797.	13.7	520
104	Generation of Coated Intermediates of Clathrin-Mediated Endocytosis on Protein-Free Liposomes. Cell, 1998, 94, 131-141.	13.5	342
105	Calcium Dependence of Synaptic Vesicle Recycling Before and After Synaptogenesis. Journal of Neurochemistry, 1998, 71, 1987-1992.	2.1	23
106	Identification and characterization of homologues of the Exocyst component Sec10p. FEBS Letters, 1997, 404, 135-139.	1.3	38
107	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.	1.3	152
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.	1.2	15

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109	Molecular mechanisms in synaptic vesicle recycling. Journal of Neurocytology, 1996, 25, 701-715.	1.6	24
110	Yeast protein translocation complex: Isolation of two genes SEB1 and SEB2 encoding proteins homologous to the Sec61Î² subunit. , 1996, 12, 425-438.		47
111	From Th1 to Th2: Diabetes immunotherapy shifts gears. Nature Medicine, 1996, 2, 1311-1312.	15.2	5
112	A presynaptic inositol-5-phosphatase. Nature, 1996, 379, 353-357.	13.7	586
113	Coxsackieviruses and diabetes. Nature Medicine, 1995, 1, 25-26.	15.2	25
114	Tubular membrane invaginations coated by dynamin rings are induced by GTP-Î³S in nerve terminals. Nature, 1995, 374, 186-190.	13.7	756
115	Keeping synapses up to speed. Nature, 1995, 375, 450-451.	13.7	25
116	A role for synaptic vesicles in nonâ€neuronal cells: clues from pancreatic Î² cells and from chromaffin cells. FASEB Journal, 1994, 8, 209-216.	0.2	168
117	The role of Rab3A in neurotransmitter release. Nature, 1994, 369, 493-497.	13.7	471
118	Autoimmunity in Stiff-Man Syndrome with breast cancer is targeted to the C-terminal region of human amphiphysin, a protein similar to the yeast proteins, Rvs167 and Rvs161. FEBS Letters, 1994, 351, 73-79.	1.3	137
119	Exocytosis goes with a SNAP. Nature, 1993, 364, 387-388.	13.7	65
120	Botulinum neurotoxin A selectively cleaves the synaptic protein SNAP-25. Nature, 1993, 365, 160-163.	13.7	1,145
121	Spotlight on a neuronal enzyme. Nature, 1993, 366, 15-17.	13.7	29
122	A mammalian guanine-nucleotide-releasing protein enhances function of yeast secretory protein Sec4. Nature, 1993, 361, 464-467.	13.7	118
123	InsP3 receptor turnaround. Nature, 1990, 344, 495-495.	13.7	16
124	The Synapsins. Annual Review of Cell Biology, 1990, 6, 433-460.	26.0	279
125	Putative receptor for inositol 1,4,5-trisphosphate similar to ryanodine receptor. Nature, 1989, 342, 192-195.	13.7	547
126	Dopamine inhibits adenylate cyclase in human prolactin-secreting pituitary adenomas. Nature, 1979, 278, 252-254.	13.7	269

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127	Recruitment and regulation of phosphatidylinositol phosphate kinase type 1Î³ by the FERM domain of talin. , 0, .		1