

Yannis L KalaÇdzidis

List of Publications by Year in descending order

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81
papers

7,757
citations

109137

35
h-index

102304

66
g-index

97
all docs

97
docs citations

97
times ranked

12157
citing authors

#	ARTICLE	IF	CITATIONS
1	Rab Conversion as a Mechanism of Progression from Early to Late Endosomes. <i>Cell</i> , 2005, 122, 735-749.	13.5	1,434
2	Image-based analysis of lipid nanoparticle-mediated siRNA delivery, intracellular trafficking and endosomal escape. <i>Nature Biotechnology</i> , 2013, 31, 638-646.	9.4	1,060
3	Objective comparison of particle tracking methods. <i>Nature Methods</i> , 2014, 11, 281-289.	9.0	805
4	The depolymerizing kinesin MCAK uses lattice diffusion to rapidly target microtubule ends. <i>Nature</i> , 2006, 441, 115-119.	13.7	408
5	Systems survey of endocytosis by multiparametric image analysis. <i>Nature</i> , 2010, 464, 243-249.	13.7	407
6	Kinetics of Morphogen Gradient Formation. <i>Science</i> , 2007, 315, 521-525.	6.0	355
7	Rab5 is necessary for the biogenesis of the endolysosomal system in vivo. <i>Nature</i> , 2012, 485, 465-470.	13.7	322
8	Reconstitution of Rab- and SNARE-dependent membrane fusion by synthetic endosomes. <i>Nature</i> , 2009, 459, 1091-1097.	13.7	201
9	RhoD regulates endosome dynamics through Diaphanous-related Formin and Src tyrosine kinase. <i>Nature Cell Biology</i> , 2003, 5, 195-204.	4.6	200
10	Signal processing by the endosomal system. <i>Current Opinion in Cell Biology</i> , 2016, 39, 53-60.	2.6	154
11	Regulation of Epidermal Growth Factor Receptor Trafficking by Lysine Deacetylase HDAC6. <i>Science Signaling</i> , 2009, 2, ra84.	1.6	140
12	An endosomal tether undergoes an entropic collapse to bring vesicles together. <i>Nature</i> , 2016, 537, 107-111.	13.7	135
13	Membrane identity and GTPase cascades regulated by toggle and cut-out switches. <i>Molecular Systems Biology</i> , 2008, 4, 206.	3.2	117
14	Regulation of EGFR signal transduction by analogue-to-digital conversion in endosomes. <i>ELife</i> , 2015, 4, .	2.8	93
15	APPL endosomes are not obligatory endocytic intermediates but act as stable cargo-sorting compartments. <i>Journal of Cell Biology</i> , 2015, 211, 123-144.	2.3	87
16	A versatile pipeline for the multi-scale digital reconstruction and quantitative analysis of 3D tissue architecture. <i>ELife</i> , 2015, 4, .	2.8	84
17	Mammalian CORVET Is Required for Fusion and Conversion of Distinct Early Endosome Subpopulations. <i>Traffic</i> , 2014, 15, 1366-1389.	1.3	80
18	A Predictive 3D Multi-Scale Model of Biliary Fluid Dynamics in the Liver Lobule. <i>Cell Systems</i> , 2017, 4, 277-290.e9.	2.9	79

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19	Integration of Chemical and RNAi Multiparametric Profiles Identifies Triggers of Intracellular Mycobacterial Killing. <i>Cell Host and Microbe</i> , 2013, 13, 129-142.	5.1	74
20	Functional properties of hepatocytes in vitro are correlated with cell polarity maintenance. <i>Experimental Cell Research</i> , 2017, 350, 242-252.	1.2	73
21	Molecular Insights into Rab7-Mediated Endosomal Recruitment of Core Retromer: Deciphering the Role of Vps26 and Vps35. <i>Traffic</i> , 2015, 16, 68-84.	1.3	71
22	A General Theoretical Framework to Infer Endosomal Network Dynamics from Quantitative Image Analysis. <i>Current Biology</i> , 2012, 22, 1381-1390.	1.8	69
23	The Clathrin Adaptor Gga2p Is a Phosphatidylinositol 4-phosphate Effector at the Golgi Exit. <i>Molecular Biology of the Cell</i> , 2008, 19, 1991-2002.	0.9	66
24	Nucleocytoplasmic Shuttling of the Golgi Phosphatidylinositol 4-Kinase Pik1 Is Regulated by 14-3-3 Proteins and Coordinates Golgi Function with Cell Growth. <i>Molecular Biology of the Cell</i> , 2008, 19, 1046-1061.	0.9	64
25	Aged insulin granules display reduced microtubule-dependent mobility and are disposed within actin-positive multigranular bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E667-76.	3.3	63
26	Endosomal escape of delivered mRNA from endosomal recycling tubules visualized at the nanoscale. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	60
27	Age-Dependent Labeling and Imaging of Insulin Secretory Granules. <i>Diabetes</i> , 2013, 62, 3687-3696.	0.3	58
28	Identification of siRNA delivery enhancers by a chemical library screen. <i>Nucleic Acids Research</i> , 2015, 43, 7984-8001.	6.5	58
29	Three-dimensional spatially resolved geometrical and functional models of human liver tissue reveal new aspects of NAFLD progression. <i>Nature Medicine</i> , 2019, 25, 1885-1893.	15.2	58
30	Correlative single-molecule localization microscopy and electron tomography reveals endosome nanoscale domains. <i>Traffic</i> , 2019, 20, 601-617.	1.3	49
31	A Global Approach for Quantitative Super Resolution and Electron Microscopy on Cryo and Epoxy Sections Using Self-labeling Protein Tags. <i>Scientific Reports</i> , 2017, 7, 23.	1.6	43
32	The creation of geometric three-dimensional models of the inner ear based on micro computer tomography data. <i>Hearing Research</i> , 2008, 243, 95-104.	0.9	42
33	Liquid-crystal organization of liver tissue. <i>ELife</i> , 2019, 8, .	2.8	42
34	Intracellular objects tracking. <i>European Journal of Cell Biology</i> , 2007, 86, 569-578.	1.6	41
35	Î²2-Syntrophin Is a Cdk5 Substrate That Restrains the Motility of Insulin Secretory Granules. <i>PLoS ONE</i> , 2010, 5, e12929.	1.1	40
36	Multiple routes of endocytic internalization of PDGFRÎ² contribute to PDGF-induced STAT3 signaling. <i>Journal of Cell Science</i> , 2017, 130, 577-589.	1.2	39

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37	SNX27â€™retromer assembly recycles MT1-MMP to invadopodia and promotes breast cancer metastasis. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	38
38	Dynamin Inhibitors Impair Endocytosis and Mitogenic Signaling of <sc>PDGF</sc>. <i>Traffic</i> , 2013, 14, 725-736.	1.3	36
39	Flash-induced voltage changes in halorhodopsin from <i>Natronobacterium pharaonis</i> . <i>FEBS Letters</i> , 1998, 427, 59-63.	1.3	35
40	BIOLOGISTICS AND THE STRUGGLE FOR EFFICIENCY: CONCEPTS AND PERSPECTIVES. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2009, 12, 533-548.	0.9	33
41	Regulation of Insulin Granule Turnover in Pancreatic Î²-Cells by Cleaved ICA512. <i>Journal of Biological Chemistry</i> , 2008, 283, 33719-33729.	1.6	32
42	Multiple objects tracking in fluorescence microscopy. <i>Journal of Mathematical Biology</i> , 2009, 58, 57-80.	0.8	32
43	Control of convergent yolk syncytial layer nuclear movement in zebrafish. <i>Development (Cambridge)</i> , 2009, 136, 1305-1315.	1.2	30
44	A drug discovery platform to identify compounds that inhibit EGFR triple mutants. <i>Nature Chemical Biology</i> , 2020, 16, 577-586.	3.9	30
45	Bile canaliculi remodeling activates <sc>YAP</sc> via the actin cytoskeleton during liver regeneration. <i>Molecular Systems Biology</i> , 2020, 16, e8985.	3.2	29
46	Auto-regulation of Rab5 GEF activity in Rabex5 by allosteric structural changes, catalytic core dynamics and ubiquitin binding. <i>ELife</i> , 2019, 8, .	2.8	26
47	Retrograde transport of Akt by a neuronal Rab5-APPL1 endosome. <i>Scientific Reports</i> , 2019, 9, 2433.	1.6	24
48	Deducing the mechanism of action of compounds identified in phenotypic screens by integrating their multiparametric profiles with a reference genetic screen. <i>Nature Protocols</i> , 2014, 9, 474-490.	5.5	23
49	A segmentation method to obtain a complete geometry model of the hearing organ. <i>Hearing Research</i> , 2011, 282, 25-34.	0.9	22
50	Biochemical Characterization of APPL Endosomes: The Role of Annexin A2 in APPL Membrane Recruitment. <i>Traffic</i> , 2011, 12, 1227-1241.	1.3	19
51	The F-actin modifier villin regulates insulin granule dynamics and exocytosis downstream of islet cell autoantigen 512. <i>Molecular Metabolism</i> , 2016, 5, 656-668.	3.0	19
52	A Spatial Model of Insulinâ€™Granule Dynamics in Pancreatic Î²â€™Cells. <i>Traffic</i> , 2015, 16, 797-813.	1.3	16
53	A probabilistic method to quantify the colocalization of markers on intracellular vesicular structures visualized by light microscopy. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	16
54	siRNA screening reveals JNK2 as an evolutionary conserved regulator of triglyceride homeostasis. <i>Journal of Lipid Research</i> , 2008, 49, 2427-2440.	2.0	15

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55	Anisotropic expansion of hepatocyte lumina enforced by apical bulkheads. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	14
56	Recruitment of APPL1 to ubiquitin-rich aggresomes in response to proteasomal impairment. <i>Experimental Cell Research</i> , 2011, 317, 1093-1107.	1.2	13
57	Forebrain-specific loss of synaptic GABAA receptors results in altered neuronal excitability and synaptic plasticity in mice. <i>Molecular and Cellular Neurosciences</i> , 2016, 72, 101-113.	1.0	12
58	Resilience of three-dimensional sinusoidal networks in liver tissue. <i>PLoS Computational Biology</i> , 2020, 16, e1007965.	1.5	12
59	Automatic recognition and characterization of different non-parenchymal cells in liver tissue. , 2016, , .		9
60	Domain-specific model selection for structural identification of the Rab5-Rab7 dynamics in endocytosis. <i>BMC Systems Biology</i> , 2015, 9, 31.	3.0	6
61	Quantification of nematic cell polarity in three-dimensional tissues. <i>PLoS Computational Biology</i> , 2020, 16, e1008412.	1.5	6
62	Membrane potential stabilizes the O intermediate in liposomes containing bacteriorhodopsin. <i>FEBS Letters</i> , 1999, 459, 143-147.	1.3	5
63	Embryonic stem cells are devoid of macropinocytosis, a trafficking pathway for activin A in differentiated cells. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	4
64	Revealing Molecular Mechanisms by Integrating High-Dimensional Functional Screens with Protein Interaction Data. <i>PLoS Computational Biology</i> , 2014, 10, e1003801.	1.5	3
65	Development of a Kinetic Assay for Late Endosome Movement. <i>Journal of Biomolecular Screening</i> , 2014, 19, 1070-1078.	2.6	2
66	Prediction of Multiple 3D Tissue Structures Based on Single-Marker Images Using Convolutional Neural Networks. , 2019, , .		2
67	Occupancy of two primary chloride-binding sites in <i>Natronobacterium pharaonis</i> halorhodopsin is a necessary condition for active anion transport. <i>Biochemistry (Moscow)</i> , 2003, 68, 354-358.	0.7	1
68	A method for validation for clustering of phenotypic gene knockdown profiles using protein-protein interactions information. <i>BMC Bioinformatics</i> , 2009, 10, .	1.2	1
69	Statistical shape modeling of human cochlea: alignment and principal component analysis. , 2013, , .		1
70	Revisiting the Generalization of Entropy for Non-positive Distribution: Application for Exponent Spectra Analysis. , 2009, , .		0
71	System analysis of endocytosis by functional genomics and quantitative multi-parametric image analysis. <i>New Biotechnology</i> , 2010, 27, S2.	2.4	0
72	Intracellular Background Estimation for Quantitative Fluorescence Microscopy. <i>Proceedings (mdpi)</i> , 2019, 33, 22.	0.2	0

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73	Inductive Process Modeling of Rab5-Rab7 Conversion in Endocytosis. Lecture Notes in Computer Science, 2013, , 265-280.	1.0	0
74	Basic Phenotypes of Endocytic System Recognized by Independent Phenotypes Analysis of a High-throughput Genomic Screen. , 2019, , .		0
75	High Throughput Image Analysis on PetaFLOPS Systems. , 2007, , 323-329.		0
76	Resilience of three-dimensional sinusoidal networks in liver tissue. , 2020, 16, e1007965.		0
77	Resilience of three-dimensional sinusoidal networks in liver tissue. , 2020, 16, e1007965.		0
78	Resilience of three-dimensional sinusoidal networks in liver tissue. , 2020, 16, e1007965.		0
79	Resilience of three-dimensional sinusoidal networks in liver tissue. , 2020, 16, e1007965.		0
80	Resilience of three-dimensional sinusoidal networks in liver tissue. , 2020, 16, e1007965.		0
81	Resilience of three-dimensional sinusoidal networks in liver tissue. , 2020, 16, e1007965.		0