Kai Simons

List of Publications by Citations

46 papers	9,726 citations	22 h-index	51 g-index
51 ext. papers	11,017 ext. citations	13.2 avg, IF	6.43 L-index

#	Paper	IF	Citations
46	Lipid rafts and signal transduction. *Nature Reviews Molecular Cell Biology*, **2000**, 1, 31-9	48.7	4950
45	Global analysis of the yeast lipidome by quantitative shotgun mass spectrometry. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2136-41	11.5	733
44	Membrane organization and lipid rafts. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3, a004697	10.2	683
43	Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity. *Cell*, **2018**, 172, 147-161.e12	56.2	417
42	Membrane lipidome of an epithelial cell line. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1903-7	11.5	326
41	Cholesterol, lipid rafts, and disease. *Journal of Clinical Investigation*, **2002**, 110, 597-603	15.9	321
40	Clusters of glycolipid and glycosylphosphatidylinositol-anchored proteins in lymphoid cells: accumulation of actin regulated by local tyrosine phosphorylation. *European Journal of Immunology*, **1999**, 29, 556-62	6.1	303
39	Flexibility of a eukaryotic lipidome--insights from yeast lipidomics. *PLoS ONE*, **2012**, 7, e35063	3.7	180
38	An automated shotgun lipidomics platform for high throughput, comprehensive, and quantitative analysis of blood plasma intact lipids. *European Journal of Lipid Science and Technology*, **2015**, 117, 1540-1549	3	142
37	Hopanoids as functional analogues of cholesterol in bacterial membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11971-6	11.5	140
36	Fusion of constitutive membrane traffic with the cell surface observed by evanescent wave microscopy. *Journal of Cell Biology*, **2000**, 149, 33-40	7.3	137
35	Membrane raft association is a determinant of plasma membrane localization. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8500-5	11.5	134
34	A lipid E-MAP identifies Ubx2 as a critical regulator of lipid saturation and lipid bilayer stress. *Molecular Cell*, **2013**, 51, 519-30	17.6	100
33	N-Glycosylation as determinant of epidermal growth factor receptor conformation in membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4334-9	11.5	98
32	Glycosylphosphatidylinositol-anchored proteins: Membrane organization and transport. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 632-9	3.8	76
31	Specific Inhibition of β-Secretase Processing of the Alzheimer Disease Amyloid Precursor Protein. *Cell Reports*, **2016**, 14, 2127-2141	10.6	71
30	Adaptive lipid packing and bioactivity in membrane domains. *PLoS ONE*, **2015**, 10, e0123930	3.7	70

29	Genetic architecture of human plasma lipidome and its link to cardiovascular disease. *Nature Communications*, **2019**, 10, 4329	17.4	58
28	Large-scale human skin lipidomics by quantitative, high-throughput shotgun mass spectrometry. *Scientific Reports*, **2017**, 7, 43761	4.9	34
27	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. *PLoS Biology*, **2019**, 17, e3000443	9.7	28
26	Lipidomic approach for stratification of acute myeloid leukemia patients. *PLoS ONE*, **2017**, 12, e0168781	3.7	23
25	Cholesterol depletion reduces apical transport capacity in epithelial Madin□Darby canine kidney cells. *Biochemical Journal*, **2001**, 357, 11-15	3.8	22
24	Comprehensive and quantitative analysis of white and brown adipose tissue by shotgun lipidomics. *Molecular Metabolism*, **2019**, 22, 12-20	8.8	19
23	Plasma Lipidome and Prediction of Type 2 Diabetes in the Population-Based Malm□Diet and Cancer Cohort. *Diabetes Care*, **2020**, 43, 366-373	14.6	12
22	Coronary Artery Disease Risk and Lipidomic Profiles Are Similar in Hyperlipidemias With Family History and Population-Ascertained Hyperlipidemias. *Journal of the American Heart Association*, **2019**, 8, e012415	6	11
21	Replication and cross-validation of type 2 diabetes subtypes based on clinical variables: an IMI-RHAPSODY study. *Diabetologia*, **2021**, 64, 1982-1989	10.3	11
20	Lipidomimetic Compounds Act as HIV-1 Entry Inhibitors by Altering Viral Membrane Structure. *Frontiers in Immunology*, **2018**, 9, 1983	8.4	10
19	Shotgun Lipidomics Discovered Diurnal Regulation of Lipid Metabolism Linked to Insulin Sensitivity in Nondiabetic Men. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	9
18	Identification of Shared and Unique Serum Lipid Profiles in Diabetes Mellitus and Myocardial Infarction. *Journal of the American Heart Association*, **2016**, 5,	6	9
17	Mouse lipidomics reveals inherent flexibility of a mammalian lipidome. *Scientific Reports*, **2021**, 11, 19364	4.9	8
16	A plasma lipid signature predicts incident coronary artery disease. *International Journal of Cardiology*, **2021**, 331, 249-254	3.2	6
15	Lipid Rafts, Caveolae, and Membrane Traffic **2006**, 1-23		5
14	Distinct Molecular Signatures of Clinical Clusters in People With Type 2 Diabetes: An IMI-RHAPSODY Study. *Diabetes*, **2021**, 70, 2683-2693	0.9	4
13	The European research council on the brink. *Cell*, **2005**, 123, 747-50	56.2	2
12	Coming to grips with cell surface polarity. *Nature Reviews Molecular Cell Biology*, **2017**, 18, 278	48.7	1

11	Suzanne Eaton (1959-2019): A pioneer in quantitative tissue morphogenesis. *Journal of Cell Biology*, **2019**, 218, 2819-2821	7.3	1
10	Adverse Effects of Refeeding on the Plasma Lipidome in Young Individuals With Anorexia Nervosa?. *Journal of the American Academy of Child and Adolescent Psychiatry*, **2021**, 60, 1479-1490	7.2	1
9	Lipids in Cells **2012**, 21-34		0
8	Retrospective. Lennart Philipson (1929-2011). *Science*, **2011**, 333, 711	33.3	
7	Visualization of Membrane Sorting and Fusion in Living Cells using Total Internal Reflection (TIR) and Multicolor Video Microscopy. *Microscopy and Microanalysis*, **2001**, 7, 34-35	0.5	
6	My Early Days with Ari Helenius: Detergents and Viruses. *Traffic*, **2016**, 17, 305-7	5.7	
5	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort **2019**, 17, e3000443		
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