

Sepp D Kohlwein

List of Publications by Year in descending order

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117
papers

10,091
citations

28242

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docs citations

117
times ranked

12786
citing authors

#	ARTICLE	IF	CITATIONS
1	FAT SIGNALS - Lipases and Lipolysis in Lipid Metabolism and Signaling. <i>Cell Metabolism</i> , 2012, 15, 279-291.	7.2	852
2	Electrospray Ionization Tandem Mass Spectrometry (Esi-MS/MS) Analysis of the Lipid Molecular Species Composition of Yeast Subcellular Membranes Reveals Acyl Chain-Based Sorting/Remodeling of Distinct Molecular Species En Route to the Plasma Membrane. <i>Journal of Cell Biology</i> , 1999, 146, 741-754.	2.3	449
3	Metabolism and Regulation of Glycerolipids in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2012, 190, 317-349.	1.2	437
4	Fatty acid synthesis and elongation in yeast. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007, 1771, 255-270.	1.2	384
5	Identification and Characterization of Major Lipid Particle Proteins of the Yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , 1999, 181, 6441-6448.	1.0	288
6	Obese Yeast: Triglyceride Lipolysis Is Functionally Conserved from Mammals to Yeast. <i>Journal of Biological Chemistry</i> , 2006, 281, 491-500.	1.6	273
7	Lipid droplet autophagy in the yeast <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2014, 25, 290-301.	0.9	245
8	A subfraction of the yeast endoplasmic reticulum associates with the plasma membrane and has a high capacity to synthesize lipids. <i>FEBS Journal</i> , 2001, 268, 2351-2361.	0.2	237
9	Cubic membranes: a legend beyond the Flatland* of cell membrane organization. <i>Journal of Cell Biology</i> , 2006, 173, 839-844.	2.3	225
10	Cdk1/Cdc28-Dependent Activation of the Major Triacylglycerol Lipase Tgl4 in Yeast Links Lipolysis to Cell-Cycle Progression. <i>Molecular Cell</i> , 2009, 33, 53-63.	4.5	216
11	Tsc13p Is Required for Fatty Acid Elongation and Localizes to a Novel Structure at the Nuclear-Vacuolar Interface in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2001, 21, 109-125.	1.1	201
12	Lipid Droplets and Peroxisomes: Key Players in Cellular Lipid Homeostasis <i>or</i> A Matter of Fatâ€™Store â€™em Up or Burn â€™em Down. <i>Genetics</i> , 2013, 193, 1-50.	1.2	193
13	Good Fat, Essential Cellular Requirements for Triacylglycerol Synthesis to Maintain Membrane Homeostasis in Yeast. <i>Journal of Biological Chemistry</i> , 2009, 284, 30981-30993.	1.6	184
14	Extracellular nucleases and extracellular DNA play important roles in <i>Vibrio cholerae</i> biofilm formation. <i>Molecular Microbiology</i> , 2011, 82, 1015-1037.	1.2	183
15	Dual Localization of Squalene Epoxidase, Erg1p, in Yeast Reflects a Relationship between the Endoplasmic Reticulum and Lipid Particles. <i>Molecular Biology of the Cell</i> , 1998, 9, 375-386.	0.9	177
16	Lipidomic Analysis of Î±-Synuclein Neurotoxicity Identifies Stearoyl CoA Desaturase as a Target for Parkinson Treatment. <i>Molecular Cell</i> , 2019, 73, 1001-1014.e8.	4.5	173
17	Contribution of Are1p and Are2p to steryl ester synthesis in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 2000, 267, 1075-1082.	0.2	158
18	The Spatial Organization of Lipid Synthesis in the Yeast <i>Saccharomyces cerevisiae</i> Derived from Large Scale Green Fluorescent Protein Tagging and High Resolution Microscopy. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 662-672.	2.5	150

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19	Remodeling of Lipid Droplets during Lipolysis and Growth in Adipocytes. <i>Journal of Biological Chemistry</i> , 2012, 287, 11164-11173.	1.6	146
20	Mitochondrial Phosphate Carrier Deficiency: A Novel Disorder of Oxidative Phosphorylation. <i>American Journal of Human Genetics</i> , 2007, 80, 478-484.	2.6	142
21	A versatile ultra-high performance LC-MS method for lipid profiling. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 951-952, 119-128.	1.2	141
22	High-Level Intracellular Expression of Hydroxynitrile Lyase from the Tropical Rubber Tree <i>Hevea brasiliensis</i> in Microbial Hosts. <i>Protein Expression and Purification</i> , 1997, 11, 61-71.	0.6	126
23	A role for seipin in lipid droplet dynamics and inheritance in yeast. <i>Journal of Cell Science</i> , 2011, 124, 3894-3904.	1.2	121
24	Chapter 6 Cubic Membranes. <i>International Review of Cell and Molecular Biology</i> , 2009, 274, 275-342.	1.6	119
25	Triacylglycerol Homeostasis: Insights from Yeast. <i>Journal of Biological Chemistry</i> , 2010, 285, 15663-15667.	1.6	117
26	Interdependent regulation of p53 and miR-34a in chronic lymphocytic leukemia. <i>Cell Cycle</i> , 2010, 9, 2836-2840.	1.3	116
27	Identification of a Cardiolipin-specific Phospholipase Encoded by the Gene CLD1 (YGR110W) in Yeast. <i>Journal of Biological Chemistry</i> , 2009, 284, 11572-11578.	1.6	113
28	The Yeast Plasma Membrane Protein Alr1 Controls Mg ²⁺ Homeostasis and Is Subject to Mg ²⁺ -dependent Control of Its Synthesis and Degradation. <i>Journal of Biological Chemistry</i> , 2001, 276, 16216-16222.	1.6	111
29	Molecular Cloning of the Full-length cDNA of (S)-Hydroxynitrile Lyase from <i>Hevea brasiliensis</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 5884-5891.	1.6	107
30	Inhibition of Acetyl Coenzyme A Carboxylase Activity Restores Expression of the INO1 Gene in a snf1 Mutant Strain of <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2001, 21, 5710-5722.	1.1	100
31	Characterization and Function in Vivo of Two Novel Phospholipases B/Lysophospholipases from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 28121-28127.	1.6	99
32	An automated approach for three-dimensional quantification of fibrillar structures in optically cleared soft biological tissues. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120760.	1.5	97
33	Nutritional requirements of the BY series of <i>Saccharomyces cerevisiae</i> strains for optimum growth. <i>FEMS Yeast Research</i> , 2012, 12, 796-808.	1.1	96
34	Seipin is involved in the regulation of phosphatidic acid metabolism at a subdomain of the nuclear envelope in yeast. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 1450-1464.	1.2	96
35	The N-terminal Region of Comparative Gene Identification-58 (CGI-58) Is Important for Lipid Droplet Binding and Activation of Adipose Triglyceride Lipase. <i>Journal of Biological Chemistry</i> , 2010, 285, 12289-12298.	1.6	94
36	The <i>Saccharomyces cerevisiae</i> YBR159w Gene Encodes the 3-Ketoreductase of the Microsomal Fatty Acid Elongase. <i>Journal of Biological Chemistry</i> , 2002, 277, 35440-35449.	1.6	89

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37	Na ⁺ /Ca ²⁺ Exchange Facilitates Ca ²⁺ -dependent Activation of Endothelial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 29529-29535.	1.6	87
38	Organelle Structure, Function, and Inheritance in Yeast: A Role for Fatty Acid Synthesis?. <i>Cell</i> , 1997, 88, 431-434.	13.5	83
39	Elo1p-Dependent Carboxy-Terminal Elongation of C14:1 ⁿ 9 to C16:1 ⁿ 11 Fatty Acids in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , 2000, 182, 3655-3660.	1.0	83
40	Yeast Oxidosqualene Cyclase (Erg7p) Is a Major Component of Lipid Particles. <i>Journal of Biological Chemistry</i> , 2002, 277, 2406-2412.	1.6	80
41	Regulation of Gene Expression through a Transcriptional Repressor that Senses Acyl-Chain Length in Membrane Phospholipids. <i>Developmental Cell</i> , 2014, 29, 729-739.	3.1	78
42	Biochemical characterization and subcellular localization of the sterol C-24(28) reductase, Erg4p, from the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2000, 470, 83-87.	1.3	75
43	Identification of a novel, Ca ²⁺ -dependent phospholipase D with preference for phosphatidylserine and phosphatidylethanolamine in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1996, 393, 236-240.	1.3	73
44	Dissecting BAR Domain Function in the Yeast Amphiphysins Rvs161 and Rvs167 during Endocytosis. <i>Molecular Biology of the Cell</i> , 2010, 21, 3054-3069.	0.9	73
45	Lipid Droplet-associated Proteins Are Involved in the Biosynthesis and Hydrolysis of Triacylglycerol in <i>Mycobacterium bovis</i> Bacillus Calmette-Guérin. <i>Journal of Biological Chemistry</i> , 2010, 285, 21662-21670.	1.6	72
46	S-Adenosyl-L-homocysteine Hydrolase, Key Enzyme of Methylation Metabolism, Regulates Phosphatidylcholine Synthesis and Triacylglycerol Homeostasis in Yeast. <i>Journal of Biological Chemistry</i> , 2008, 283, 23989-23999.	1.6	71
47	Fatty acids trigger mitochondrion-dependent necrosis. <i>Cell Cycle</i> , 2010, 9, 2908-2914.	1.3	71
48	Uptake of fatty acids by the yeasts, <i>Saccharomyces uvarum</i> and <i>Saccharomycopsis lipolytica</i> . <i>Lipids and Lipid Metabolism</i> , 1984, 792, 310-317.	2.6	69
49	Cis and trans regulatory elements required for regulation of the CHO1 gene of <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 1992, 20, 1411-1418.	6.5	63
50	A Block in Endoplasmic Reticulum-to-Golgi Trafficking Inhibits Phospholipid Synthesis and Induces Neutral Lipid Accumulation. <i>Journal of Biological Chemistry</i> , 2008, 283, 25735-25751.	1.6	63
51	The emergence of lipid droplets in yeast: current status and experimental approaches. <i>Current Genetics</i> , 2013, 59, 231-242.	0.8	63
52	The lipid droplet enzyme Tgl1p hydrolyzes both steryl esters and triglycerides in the yeast, <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1735, 50-58.	1.2	61
53	Coordination of Storage Lipid Synthesis and Membrane Biogenesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 1696-1708.	1.6	61
54	Yeast and cancer cells – common principles in lipid metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 314-326.	1.2	60

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55	The role of respiration, reactive oxygen species and oxidative stress in mother cell-specific ageing of yeast strains defective in the signalling pathway. <i>FEMS Yeast Research</i> , 2004, 5, 157-167.	1.1	58
56	Subcellular localization of yeast Sec14 homologues and their involvement in regulation of phospholipid turnover. <i>FEBS Journal</i> , 2003, 270, 3133-3145.	0.2	57
57	Absence of the peroxiredoxin Pmp20 causes peroxisomal protein leakage and necrotic cell death. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1115-1124.	1.3	55
58	Identification of an Insulin-regulated Lysophospholipase with Homology to Neuropathy Target Esterase. <i>Journal of Biological Chemistry</i> , 2008, 283, 5908-5917.	1.6	55
59	Do viruses subvert cholesterol homeostasis to induce host cubic membranes?. <i>Trends in Cell Biology</i> , 2010, 20, 371-379.	3.6	55
60	Quantitative modeling of triacylglycerol homeostasis in yeast – metabolic requirement for lipolysis to promote membrane lipid synthesis and cellular growth. <i>FEBS Journal</i> , 2008, 275, 5552-5563.	2.2	54
61	Identification of Yju3p as functional orthologue of mammalian monoglyceride lipase in the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 1063-1071.	1.2	54
62	Fasting induces cyanide-resistant respiration and oxidative stress in the amoeba <i>Chaos carolinensis</i> : implications for the cubic structural transition in mitochondrial membranes. <i>Protoplasma</i> , 2002, 219, 160-167.	1.0	53
63	Cellular cholesterol controls TRPC3 function: evidence from a novel dominant-negative knockdown strategy. <i>Biochemical Journal</i> , 2006, 396, 147-155.	1.7	52
64	The beauty of the yeast: Live cell microscopy at the limits of optical resolution. <i>Microscopy Research and Technique</i> , 2000, 51, 511-529.	1.2	48
65	Adaptation to oxidative stress induced by polyunsaturated fatty acids in yeast. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2008, 1781, 283-287.	1.2	48
66	YPL.db: the Yeast Protein Localization database. <i>Nucleic Acids Research</i> , 2002, 30, 80-83.	6.5	43
67	Vascular Bioactivation of Nitroglycerin Is Catalyzed by Cytosolic Aldehyde Dehydrogenase-2. <i>Circulation Research</i> , 2012, 110, 385-393.	2.0	43
68	A novel strategy for constructing N-terminal chromosomal fusions to green fluorescent protein in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2000, 485, 29-34.	1.3	41
69	Characterization, localization and functional analysis of Gpr1p, a protein affecting sensitivity to acetic acid in the yeast <i>Yarrowia lipolytica</i> . <i>Microbiology (United Kingdom)</i> , 2003, 149, 589-600.	0.7	41
70	<i>Saccharomyces cerevisiae</i> strain expressing a plant fatty acid desaturase produces polyunsaturated fatty acids and is susceptible to oxidative stress induced by lipid peroxidation. <i>Free Radical Biology and Medicine</i> , 2006, 40, 897-906.	1.3	39
71	Microscopic Analysis of Lipid Droplet Metabolism and Dynamics in Yeast. <i>Methods in Molecular Biology</i> , 2008, 457, 151-163.	0.4	39
72	Obese and anorexic yeasts: Experimental models to understand the metabolic syndrome and lipotoxicity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 222-229.	1.2	38

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73	Treatment of the budding yeast <i>Saccharomyces cerevisiae</i> with the lipid peroxidation product 4-HNE provokes a temporary cell cycle arrest in G1 phase. <i>Free Radical Biology and Medicine</i> , 1998, 25, 682-687.	1.3	37
74	A Novel Cold-Sensitive Allele of the Rate-Limiting Enzyme of Fatty Acid Synthesis, Acetyl Coenzyme A Carboxylase, Affects the Morphology of the Yeast Vacuole through Acylation of Vac8p. <i>Molecular and Cellular Biology</i> , 2000, 20, 2984-2995.	1.1	37
75	Application of inductively coupled plasma mass spectrometry to phospholipid analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 80-84.	1.6	35
76	Docosapentaenoic acid (DPA) is a critical determinant of cubic membrane formation in amoeba <i>Chaos</i> mitochondria. <i>FASEB Journal</i> , 2009, 23, 2866-2871.	0.2	35
77	Nanopatterned polymer substrates promote endothelial proliferation by initiation of β^2 -catenin transcriptional signaling. <i>Acta Biomaterialia</i> , 2012, 8, 2953-2962.	4.1	35
78	Enhanced membrane protein expression by engineering increased intracellular membrane production. <i>Microbial Cell Factories</i> , 2013, 12, 122.	1.9	35
79	Imaging-Based Live Cell Yeast Screen Identifies Novel Factors Involved in Peroxisome Assembly. <i>Journal of Proteome Research</i> , 2009, 8, 20-27.	1.8	33
80	Lipid-induced cell dysfunction and cell death: Lessons from yeast. <i>Current Hypertension Reports</i> , 2007, 9, 455-461.	1.5	32
81	Lipid-dependent Subcellular Relocalization of the Acyl Chain Desaturase in Yeast. <i>Molecular Biology of the Cell</i> , 2002, 13, 4429-4442.	0.9	31
82	YPL.db2: the yeast protein localization database, version 2.0. <i>Yeast</i> , 2005, 22, 213-218.	0.8	31
83	The yeast <i>mic2</i> mutant is defective in the formation of mannosyl-diinositolphosphorylceramide1. <i>FEBS Letters</i> , 1997, 411, 211-214.	1.3	30
84	S-Adenosyl-l-homocysteine hydrolase in yeast: key enzyme of methylation metabolism and coordinated regulation with phospholipid synthesis. <i>FEBS Letters</i> , 2004, 577, 501-506.	1.3	30
85	Phospholipids: synthesis, sorting, subcellular traffic - the yeast approach. <i>Trends in Cell Biology</i> , 1996, 6, 260-266.	3.6	29
86	Morphogenesis checkpoint kinase Swe1 is the executor of lipolysis-dependent cell-cycle progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1077-85.	3.3	27
87	Increased stress parameter synthesis in the yeast <i>Saccharomyces cerevisiae</i> after treatment with 4-hydroxy-2-nonenal 1. <i>FEBS Letters</i> , 1997, 405, 11-15.	1.3	26
88	Low levels of Ypt protein prenylation cause vesicle polarization defects and thermosensitive growth that can be suppressed by genes involved in cell wall maintenance. <i>Molecular Microbiology</i> , 2002, 35, 1295-1311.	1.2	26
89	Molecular cloning of the yeast OPI3 gene as a high copy number suppressor of the <i>cho2</i> mutation. <i>Current Genetics</i> , 1993, 23, 95-101.	0.8	25
90	Esterase 22 and beta-glucuronidase hydrolyze retinoids in mouse liver. <i>Journal of Lipid Research</i> , 2009, 50, 2514-2523.	2.0	25

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91	Regulation of Sphingolipid Biosynthesis by the Morphogenesis Checkpoint Kinase Swe1. <i>Journal of Biological Chemistry</i> , 2016, 291, 2524-2534.	1.6	25
92	Identification of an ARS element and development of a high efficiency transformation system for <i>Pichia guilliermondii</i> . <i>Current Genetics</i> , 1999, 36, 215-221.	0.8	22
93	Diacylglycerol triggers Rim101 pathway-dependent necrosis in yeast: a model for lipotoxicity. <i>Cell Death and Differentiation</i> , 2018, 25, 767-783.	5.0	22
94	ATP-binding cassette transporters and sterol acyltransferases interact at membrane microdomains to modulate sterol uptake and esterification. <i>FASEB Journal</i> , 2015, 29, 4682-4694.	0.2	21
95	Lipid Extraction from Yeast Cells. <i>Cold Spring Harbor Protocols</i> , 2017, 2017, pdb.prot085449.	0.2	21
96	Assessment of electrophile damage in a human brain endothelial cell line utilizing a clickable alkyne analog of 2-chlorohexadecanal. <i>Free Radical Biology and Medicine</i> , 2016, 90, 59-74.	1.3	15
97	Thin-Layer Chromatography to Separate Phospholipids and Neutral Lipids from Yeast. <i>Cold Spring Harbor Protocols</i> , 2017, 2017, pdb.prot085456.	0.2	15
98	(S)-Hydroxynitrile Lyase from <i>Hevea brasiliensis</i> . <i>Annals of the New York Academy of Sciences</i> , 1996, 799, 707-712.	1.8	14
99	Monoacylglycerol Lipases Act as Evolutionarily Conserved Regulators of Non-oxidative Ethanol Metabolism. <i>Journal of Biological Chemistry</i> , 2016, 291, 11865-11875.	1.6	14
100	Functional expression of bacterial β -glucuronidase and its use as a reporter system in the yeast <i>Yarrowia lipolytica</i> . <i>Yeast</i> , 1993, 9, 71-75.	0.8	13
101	Microscopic and Spectroscopic Techniques to Investigate Lipid Droplet Formation and Turnover in Yeast. <i>Methods in Molecular Biology</i> , 2015, 1270, 289-305.	0.4	13
102	Interaction of Pik1p and Sjl proteins in membrane trafficking. <i>FEMS Yeast Research</i> , 2005, 5, 363-371.	1.1	12
103	A Neurotoxic Phospholipase A2 Impairs Yeast Amphiphysin Activity and Reduces Endocytosis. <i>PLoS ONE</i> , 2012, 7, e40931.	1.1	11
104	Analyzing and Understanding Lipids of Yeast: A Challenging Endeavor. <i>Cold Spring Harbor Protocols</i> , 2017, 2017, pdb.top078956.	0.2	11
105	The Fidgety Yeast: Focus on High-Resolution Live Yeast Cell Microscopy. <i>Methods in Molecular Biology</i> , 2009, 548, 75-99.	0.4	11
106	Enhanced Ca^{2+} Entry and Tyrosine Phosphorylation Mediate Nanostructure-Induced Endothelial Proliferation. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-10.	1.5	10
107	Yeast Translational Activator Cbs2p: Mitochondrial Targeting and Effect of Overexpression. <i>Biological Chemistry</i> , 2000, 381, 1175-83.	1.2	9
108	Quantitative Imaging of Lipid Metabolism in Yeast: From 4D Analysis to High Content Screens of Mutant Libraries. <i>Methods in Cell Biology</i> , 2012, 108, 345-365.	0.5	9

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109	Derivatization and Gas Chromatography of Fatty Acids from Yeast. Cold Spring Harbor Protocols, 2017, 2017, pdb.prot085464.	0.2	8
110	Sensitivity of Osteosarcoma Cells to Concentration-Dependent Bioactivities of Lipid Peroxidation Product 4-Hydroxynonenal Depend on Their Level of Differentiation. Cells, 2021, 10, 269.	1.8	8
111	Effect of inositol starvation on glycerolipid metabolism in Saccharomyces uvarum. Lipids and Lipid Metabolism, 1983, 753, 430-438.	2.6	7
112	Sterol Binding Assay Using Surface Plasmon Fluorescence Spectroscopy. Analytical Chemistry, 2006, 78, 547-555.	3.2	7
113	Isolation of mitochondria with cubic membrane morphology reveals specific ionic requirements for the preservation of membrane structure. Protoplasma, 2015, 252, 689-696.	1.0	7
114	Lipid droplets and lamellar bodies – from innocent bystanders to prime targets of lipid research for combating human diseases. European Journal of Lipid Science and Technology, 2006, 108, 541-543.	1.0	5
115	Quantitative Analysis of Yeast Phospholipids and Sterols by High-Performance Liquid Chromatography–Evaporative Light-Scattering Detection. Cold Spring Harbor Protocols, 2017, 2017, pdb.prot085472.	0.2	4
116	Single Yeast Cell Imaging. Methods in Molecular Biology, 2014, 1205, 91-109.	0.4	3
117	Digital imaging of diabetic endothelial cells. , 2001, 4260, 1.		1