Stefan Kempa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2728545/publications.pdf

Version: 2024-02-01

77	8,680	66343	74163
papers	citations	42 h-index	75 g-index

82	82	82	15507
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Salt-responsive gut commensal modulates TH17 axis and disease. Nature, 2017, 551, 585-589.	27.8	896
2	Dietary Fatty Acids Directly Impact Central Nervous System Autoimmunity via the Small Intestine. Immunity, 2015, 43, 817-829.	14.3	637
3	Glycolysis-Mediated Changes in Acetyl-CoA and Histone Acetylation Control the Early Differentiation of Embryonic Stem Cells. Cell Metabolism, 2015, 21, 392-402.	16.2	541
4	Fructose-driven glycolysis supports anoxia resistance in the naked mole-rat. Science, 2017, 356, 307-311.	12.6	503
5	Short-Chain Fatty Acid Propionate Protects From Hypertensive Cardiovascular Damage. Circulation, 2019, 139, 1407-1421.	1.6	452
6	Synthetic lethal metabolic targeting of cellular senescence in cancer therapy. Nature, 2013, 501, 421-425.	27.8	437
7	Transcriptome analysis of sulfur depletion in Arabidopsis thaliana : interlacing of biosynthetic pathways provides response specificity. Plant Journal, 2003, 33, 633-650.	5.7	383
8	Propionic Acid Shapes the Multiple Sclerosis Disease Course by an Immunomodulatory Mechanism. Cell, 2020, 180, 1067-1080.e16.	28.9	367
9	Deregulated MYC expression induces dependence upon AMPK-related kinase 5. Nature, 2012, 483, 608-612.	27.8	220
10	IFNs Modify the Proteome of Legionella-Containing Vacuoles and Restrict Infection Via IRG1-Derived Itaconic Acid. PLoS Pathogens, 2016, 12, e1005408.	4.7	195
11	Extensive identification and analysis of conserved small ORFs in animals. Genome Biology, 2015, 16, 179.	8.8	180
12	Indications for a Novel Muscular Dystrophy Pathway. Journal of Cell Biology, 2000, 151, 235-248.	5.2	172
13	A Central Role of Abscisic Acid in Stress-Regulated Carbohydrate Metabolism. PLoS ONE, 2008, 3, e3935.	2.5	165
14	MOV10 Is a 5â€² to 3â€² RNA Helicase Contributing to UPF1 mRNA Target Degradation by Translocation along 3â€² UTRs. Molecular Cell, 2014, 54, 573-585.	9.7	159
15	Stress-Induced GSK3 Regulates the Redox Stress Response by Phosphorylating Glucose-6-Phosphate Dehydrogenase in Arabidopsis. Plant Cell, 2012, 24, 3380-3392.	6.6	151
16	InÂVivo and Transcriptome-wide Identification of RNA Binding Protein Target Sites. Molecular Cell, 2011, 44, 828-840.	9.7	146
17	Proteomics Quality Control: Quality Control Software for MaxQuant Results. Journal of Proteome Research, 2016, 15, 777-787.	3.7	145
18	Metabolomics- and Proteomics-Assisted Genome Annotation and Analysis of the Draft Metabolic Network of Chlamydomonas reinhardtii. Genetics, 2008, 179, 157-166.	2.9	141

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19	Gene expression of pluripotency determinants is conserved between mammalian and planarian stem cells. EMBO Journal, 2012, 31, 2755-2769.	7.8	136
20	A MYC-Driven Change in Mitochondrial Dynamics Limits YAP/TAZ Function in Mammary Epithelial Cells and Breast Cancer. Cancer Cell, 2015, 28, 743-757.	16.8	122
21	Crosstalk between Two bZIP Signaling Pathways Orchestrates Salt-Induced Metabolic Reprogramming in Arabidopsis Roots. Plant Cell, 2015, 27, 2244-2260.	6.6	115
22	Towards dissecting nutrient metabolism in plants: a systems biology case study on sulphur metabolism. Journal of Experimental Botany, 2004, 55, 1861-1870.	4.8	114
23	Carbon Metabolism and Bacteroid Functioning Are Involved in the Regulation of Nitrogen Fixation inMedicago truncatulaUnder Drought and Recovery. Molecular Plant-Microbe Interactions, 2009, 22, 1565-1576.	2.6	114
24	Effect of sulfur availability on the integrity of amino acid biosynthesis in plants. Amino Acids, 2006, 30, 173-183.	2.7	110
25	LifeTime and improving European healthcare through cell-based interceptive medicine. Nature, 2020, 587, 377-386.	27.8	108
26	Selective transport of neurotransmitters and â€“modulators by distinct volume-regulated LRRC8 anion channels. Journal of Cell Science, 2017, 130, 1122-1133.	2.0	104
27	De novo assembly and validation of planaria transcriptome by massive parallel sequencing and shotgun proteomics. Genome Research, 2011, 21, 1193-1200.	5.5	100
28	RC3H1 post-transcriptionally regulates A20 mRNA and modulates the activity of the IKK/NF-ÎºB pathway. Nature Communications, 2015, 6, 7367.	12.8	99
29	Targeted proteomics for Chlamydomonas reinhardtii combined with rapid subcellular protein fractionation, metabolomics and metabolic flux analyses. Molecular BioSystems, 2010, 6, 1018.	2.9	94
30	Muscle-type Creatine Kinase Interacts with Central Domains of the M-band Proteins Myomesin and M-protein. Journal of Molecular Biology, 2003, 332, 877-887.	4.2	88
31	The Pro-Neurotrophin Receptor Sortilin Is a Major Neuronal Apolipoprotein E Receptor for Catabolism of Amyloid-Î² Peptide in the Brain. Journal of Neuroscience, 2013, 33, 358-370.	3.6	86
32	Proteome dynamics and early salt stress response of the photosynthetic organism Chlamydomonas reinhardtii. BMC Genomics, 2012, 13, 215.	2.8	77
33	Identification of LIN28B-bound mRNAs reveals features of target recognition and regulation. RNA Biology, 2013, 10, 1146-1159.	3.1	76
34	ChlamyCyc: an integrative systems biology database and web-portal for Chlamydomonas reinhardtii. BMC Genomics, 2009, 10, 209.	2.8	73
35	The growing complexity of HIF-1Î±â€™s role in tumorigenesis: DNA repair and beyond. Oncogene, 2013, 32, 3569-3576.	5.9	72
36	A plastid-localized glycogen synthase kinaseâ€ƒ3 modulates stress tolerance and carbohydrate metabolism. Plant Journal, 2007, 49, 1076-1090.	5.7	70

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37	An integrative approach towards completing genome-scale metabolic networks. Molecular BioSystems, 2009, 5, 1889.	2.9	67
38	The B-cell receptor controls fitness of MYC-driven lymphoma cells via GSK3Î² inhibition. Nature, 2017, 546, 302-306.	27.8	64
39	Engineering of cysteine and methionine biosynthesis in potato. Amino Acids, 2002, 22, 259-278.	2.7	62
40	An automated GCxGCâ€TOFâ€MS protocol for batchâ€wise extraction and alignment of mass isotopomer matrixes from differential ¹³Câ€labelling experiments: a case study for photoautotrophicâ€mixotrophic grown Chlamydomonas reinhardtii cells. Journal of Basic Microbiology, 2009, 49, 82-91.	3.3	62
41	Integrative functional genomics decodes herpes simplex virus 1. Nature Communications, 2020, 11, 2038.	12.8	61
42	The MYC mRNA 3â€²â€UTR couples RNA polymerase II function to glutamine and ribonucleotide levels. EMBO Journal, 2017, 36, 1854-1868.	7.8	60
43	SORLA facilitates insulin receptor signaling in adipocytes and exacerbates obesity. Journal of Clinical Investigation, 2016, 126, 2706-2720.	8.2	46
44	Decoding the dynamics of cellular metabolism and the action of 3-bromopyruvate and 2-deoxyglucose using pulsed stable isotope-resolved metabolomics. Cancer & Metabolism, 2014, 2, 9.	5.0	43
45	A Proteomic Investigation of Soluble Olfactory Proteins in Anopheles gambiae. PLoS ONE, 2013, 8, e75162.	2.5	37
46	Retinol saturase coordinates liver metabolism by regulating ChREBP activity. Nature Communications, 2017, 8, 384.	12.8	34
47	Localized Inhibition of Protein Phosphatase 1 by NUAK1 Promotes Spliceosome Activity and Reveals a MYC-Sensitive Feedback Control of Transcription. Molecular Cell, 2020, 77, 1322-1339.e11.	9.7	34
48	Combined Human Genome-wide RNAi and Metabolite Analyses Identify IMPDH as a Host-Directed Target against Chlamydia Infection. Cell Host and Microbe, 2018, 23, 661-671.e8.	11.0	32
49	Salt Transiently Inhibits Mitochondrial Energetics in Mononuclear Phagocytes. Circulation, 2021, 144, 144-158.	1.6	32
50	Stage-specific metabolic features of differentiating neurons: Implications for toxicant sensitivity. Toxicology and Applied Pharmacology, 2018, 354, 64-80.	2.8	29
51	On Mass Ambiguities in High-Resolution Shotgun Lipidomics. Analytical Chemistry, 2017, 89, 2986-2994.	6.5	27
52	Non-canonical HIF-1 stabilization contributes to intestinal tumorigenesis. Oncogene, 2019, 38, 5670-5685.	5.9	26
53	Muscle Atrophy Due to Nerve Damage Is Accompanied by Elevated Myofibrillar Protein Synthesis Rates. Frontiers in Physiology, 2018, 9, 1220.	2.8	24
54	Maui-VIA: A User-Friendly Software for Visual Identification, Alignment, Correction, and Quantification of Gas ChromatographyÃ¢â‚¬â€œMass Spectrometry Data. Frontiers in Bioengineering and Biotechnology, 2014, 2, 84.	4.1	22

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55	Alterations ofÂmTOR signaling impact metabolic stress resistance in colorectal carcinomas with BRAF and KRAS mutations. Scientific Reports, 2018, 8, 9204.	3.3	22
56	Maf links Neuregulin1 signaling to cholesterol synthesis in myelinating Schwann cells. Genes and Development, 2018, 32, 645-657.	5.9	22
57	Expression of root glutamate dehydrogenase genes in tobacco plants subjected to boron deprivation. Plant Physiology and Biochemistry, 2011, 49, 1350-1354.	5.8	18
58	Effects of RAF inhibitors on PI3K/AKT signalling depend on mutational status of the RAS/RAF signalling axis. Oncotarget, 2016, 7, 7960-7969.	1.8	18
59	Kinetic modelling of quantitative proteome data predicts metabolic reprogramming of liver cancer. British Journal of Cancer, 2020, 122, 233-244.	6.4	16
60	Nerve damage induced skeletal muscle atrophy is associated with increased accumulation of intramuscular glucose and polyol pathway intermediates. Scientific Reports, 2020, 10, 1908.	3.3	16
61	Towards a More Reliable Identification of Isomeric Metabolites Using Pattern Guided Retention Validation. Metabolites, 2020, 10, 457.	2.9	14
62	Abrogating <scp>GPT2</scp> in tripleâ€negative breast cancer inhibits tumor growth and promotes autophagy. International Journal of Cancer, 2021, 148, 1993-2009.	5.1	14
63	Pulsed Stable Isotope-Resolved Metabolomic Studies of Cancer Cells. Methods in Enzymology, 2014, 543, 179-198.	1.0	13
64	The conserved histone chaperone LINâ€53 is required for normal lifespan and maintenance of muscle integrity in Caenorhabditis elegans. Aging Cell, 2019, 18, e13012.	6.7	13
65	Context-specific regulation of cell survival by a miRNA-controlled BIM rheostat. Genes and Development, 2019, 33, 1673-1687.	5.9	13
66	C/EBPÎ²-LIP induces cancer-type metabolic reprogramming by regulating the let-7/LIN28B circuit in mice. Communications Biology, 2019, 2, 208.	4.4	13
67	Inhibiting phosphoglycerate dehydrogenase counteracts chemotherapeutic efficacy against <scp>MYCN</scp>â€amplified neuroblastoma. International Journal of Cancer, 2021, 148, 1219-1232.	5.1	13
68	Analysing central metabolism in ultra-high resolution: At the crossroads of carbon and nitrogen. Molecular Metabolism, 2020, 33, 38-47.	6.5	12
69	Annexin A1 sustains tumor metabolism and cellular proliferation upon stable loss of HIF1A. Oncotarget, 2016, 7, 6693-6710.	1.8	12
70	Optimized Workflow for On-Line Derivatization for Targeted Metabolomics Approach by Gas Chromatography-Mass Spectrometry. Metabolites, 2021, 11, 888.	2.9	9
71	HDLBP binds ER-targeted mRNAs by multivalent interactions to promote protein synthesis of transmembrane and secreted proteins. Nature Communications, 2022, 13, 2727.	12.8	9
72	Inhibiting PHGDH with NCT-503 reroutes glucose-derived carbons into the TCA cycle, independently of its on-target effect. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1282-1289.	5.2	8

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73	Quantitative Analysis of Cancer Metabolism: From pSIRM to MFA. Recent Results in Cancer Research, 2016, 207, 207-220.	1.8	4
74	The answer's in the tail: MYC mRNA has a metabolic sensor that supports cancer chemoresistance. Molecular and Cellular Oncology, 2017, 4, e1338209.	0.7	1
75	Genome-Scale Metabolic Network Inference. , 2013, , 832-833.		1
76	Propionic Acid Shapes the Course of Multiple Sclerosis by a Distinct Immunomodulatory and Neuroprotective Mechanism. SSRN Electronic Journal, 0, , .	0.4	1
77	Systems Biology Approach to Study Cancer Metabolism. , 2018, , .		0