Kutlu Ã– Ãœlgen

List of Publications by Year
in descending order

83 papers	2,551 citations	279798 23 h-index	206112 48 g-index
85 all docs	85 docs citations	85 times ranked	3439 citing authors

#	Article	IF	Citations
1	Carvacrol Enhances the Antimicrobial Potency of Berberine in Bacillus subtilis. Current Microbiology, 2022, 79, 135.	2.2	2
2	Understanding HMF inhibition on yeast growth coupled with ethanol production for the improvement of bio-based industrial processes. Process Biochemistry, 2022, 121, 425-438.	3.7	5
3	Fabrication Protocol for Thermoplastic Microfluidic Devices: Nanoliter Volume Bioreactors for Cell Culturing. Methods in Molecular Biology, 2021, , 1.	0.9	0
4	The Toxicity of Polystyrene-Based Nanoparticles in Saccharomyces cerevisiae Is Associated with Nanoparticle Charge and Uptake Mechanism. Chemical Research in Toxicology, 2021, 34, 1055-1068.	3.3	6
5	Live Cell Imaging of Peptide Uptake Using a Microfluidic Platform. International Journal of Peptide Research and Therapeutics, 2021, 27, 2003-2013.	1.9	0
6	Advances in Genome-Scale Metabolic Modeling toward Microbial Community Analysis of the Human Microbiome. ACS Synthetic Biology, 2021, 10, 2121-2137.	3.8	7
7	Real-Time Single-Cell Monitoring of Drug Effects Using Droplet-Based Microfluidic Technology: A Proof-of-Concept Study. OMICS A Journal of Integrative Biology, 2021, 25, 641-651.	2.0	0
8	A Drug Repurposing and Proteinâ€“Protein Interaction Network Study of Ribosomopathies Using Yeast as a Model System. OMICS A Journal of Integrative Biology, 2020, 24, 96-109.	2.0	4
9	Genome-Scale Metabolic Modeling for Unraveling Molecular Mechanisms of High Threat Pathogens. Frontiers in Cell and Developmental Biology, 2020, 8, 566702.	3.7	26
10	Cell trapping microfluidic chip made of Cyclo olefin polymer enabling two concurrent cell biology experiments with long term durability. Biomedical Microdevices, 2020, 22, 20.	2.8	5
11	Thermoplastic microfluidic bioreactors with integrated electrodes to study tumor treating fields on yeast cells. Biomicrofluidics, 2020, 14, 034104.	2.4	7
12	Preliminary Studies on Flow Assisted Propagation of Fluorescent Microbeads in Microfluidic Channels for Molecular Communication Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 294-302.	0.3	3
13	Application of supercritical gel drying method on fabrication of mechanically improved and biologically safe three-component scaffold composed of graphene oxide/chitosan/hydroxyapatite and characterization studies. Journal of Materials Research and Technology, 2019, 8, 5201-5216.	5.8	25
14	Inflammatory response and its relation to sphingolipid metabolism proteins: Chaperones as potential indirect anti-inflammatory agents. Advances in Protein Chemistry and Structural Biology, 2019, 114, 153-219.	2.3	7
15	A low cost PS based microfluidic platform to investigate cell cycle towards developing a therapeutic strategy for cancer. Biomedical Microdevices, 2018, 20, 57.	2.8	4
16	Unlocking Human Brain Metabolism by Genome-Scale and Multiomics Metabolic Models: Relevance for Neurology Research, Health, and Disease. OMICS A Journal of Integrative Biology, 2018, 22, 455-467.	2.0	14
17	In Silico Identification of Novel Orthosteric Inhibitors of Sphingosine Kinase 1 (SK1). Current Protein and Peptide Science, 2018, 19, 430-444.	1.4	0
18	Multiomics Approach to Novel Therapeutic Targets for Cancer and Aging-Related Diseases: Role of Sld7 in Yeast Aging Network. OMICS A Journal of Integrative Biology, 2017, 21, 100-113.	2.0	5

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19	Fabrication of cyclo olefin polymer microfluidic devices for trapping and culturing of yeast cells. Biomedical Microdevices, 2017, 19, 40.	2.8	18
20	Sphingosine kinase 1 (SK1) allosteric inhibitors that target the dimerization site. Computational Biology and Chemistry, 2017, 69, 64-76.	2.3	6
21	Comparative interactomics for virusâ€“human proteinâ€“protein interactions: <scp>DNA</scp> viruses versus <scp>RNA</scp> viruses. FEBS Open Bio, 2017, 7, 96-107.	2.3	42
22	Advances in microfluidic devices made from thermoplastics used in cell biology and analyses. Biomicrofluidics, 2017, 11, 051502.	2.4	82
23	A review on wax printed microfluidic paper-based devices for international health. Biomicrofluidics, 2017, 11, 041501.	2.4	69
24	Investigation of novel pharmacological chaperones for Gaucher Disease. Journal of Molecular Graphics and Modelling, 2017, 76, 364-378.	2.4	10
25	Screening applications in drug discovery based on microfluidic technology. Biomicrofluidics, 2016, 10, 011502.	2.4	39
26	Fabrication of steel displacement amplifiers integrated to microfluidic channels. , 2016, , .		2
27	A systematic methodology for large scale compound screening: A case study on the discovery of novel S1PL inhibitors. Journal of Molecular Graphics and Modelling, 2016, 63, 110-124.	2.4	23
28	Identification of potential Tpx inhibitors against pathogen-host interactions. Computational Biology and Chemistry, 2015, 58, 126-138.	2.3	0
29	Transcriptional remodeling in response to transfer upon carbon-limited or metformin-supplemented media in S. cerevisiae and its effect on chronological life span. Applied Microbiology and Biotechnology, 2015, 99, 6775-6789.	3.6	10
30	The impact of medium acidity on the chronological life span of SaccharomycesÂcerevisiaeÂâ€“Âlipids, signaling cascades, mitochondrial and vacuolar functions. FEBS Journal, 2014, 281, 1281-1303.	4.7	8
31	Targeting the Akt1 allosteric site to identify novel scaffolds through virtual screening. Computational Biology and Chemistry, 2014, 48, 1-13.	2.3	12
32	Systematic analysis of transcriptionâ€level effects of neurodegenerative diseases on human brain metabolism by a newly reconstructed brainâ€specific metabolic network. FEBS Open Bio, 2014, 4, 542-553.	2.3	51
33	Aminopurine derivatives as putative SopE inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 137-145.	5.2	2
34	Assessment of crosstalks between the Snf1 kinase complex and sphingolipid metabolism in S. cerevisiae via systems biology approaches. Molecular BioSystems, 2013, 9, 2914.	2.9	7
35	Systems biology of pathogenâ€host interaction: Networks of proteinâ€protein interaction within pathogens and pathogenâ€human interactions in the postâ€genomic era. Biotechnology Journal, 2013, 8, 85-96.	3.5	39
36	PHISTO: pathogenâ€“host interaction search tool. Bioinformatics, 2013, 29, 1357-1358.	4.1	145

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37	Discovery of YopE Inhibitors by Pharmacophore-Based Virtual Screening and Docking. , 2013, 2013, 1-12.		3
38	Infection Strategies of Bacterial and Viral Pathogens through Pathogenâ€“Human Proteinâ€“Protein Interactions. Frontiers in Microbiology, 2012, 3, 46.	3.5	63
39	A Network-Based Approach on Elucidating the Multi-Faceted Nature of Chronological Aging in S. cerevisiae. PLoS ONE, 2011, 6, e29284.	2.5	10
40	Reconstruction and crosstalk of proteinâ€“protein interaction networks of Wnt and Hedgehog signaling in Drosophila melanogaster. Computational Biology and Chemistry, 2011, 35, 282-292.	2.3	12
41	Stoichiometric network reconstruction and analysis of yeast sphingolipid metabolism incorporating different states of hydroxylation. BioSystems, 2011, 104, 63-75.	2.0	5
42	Drug target identification in sphingolipid metabolism by computational systems biology tools: Metabolic control analysis and metabolic pathway analysis. Journal of Biomedical Informatics, 2010, 43, 537-549.	4.3	13
43	Reconstruction of Protein-Protein Interaction Network of Insulin Signaling inHomo Sapiens. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-7.	3.0	11
44	Investigation of the relationship between sphingolipid and insulin signaling pathways. , 2010, , .		0
45	Computational prediction of protein-protein interactions in sphingolipid signaling network. , 2009, , .		1
46	Drug targets for tumorigenesis: Insights from structural analysis of EGFR signaling network. Journal of Biomedical Informatics, 2009, 42, 228-236.	4.3	16
47	Molecular facets of sphingolipids: Mediators of diseases. Biotechnology Journal, 2009, 4, 1028-1041.	3.5	29
48	Reconstruction of Wnt/Calcium signaling pathway in C. elegans. , 2009, , .		0
49	Exometabolic and transcriptional response in relation to phenotype and gene copy number in respirationâ€related deletion mutants of S. cerevisiae. Yeast, 2008, 25, 661-672.	1.7	7
50	Integration of Metabolic Modeling and Phenotypic Data in Evaluation and Improvement of Ethanol Production Using Respiration-Deficient Mutants of Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2008, 74, 5809-5816.	3.1	23
51	Emerging Roles for Metabolic Engineering - Understanding Primitive and Complex Metabolic Models and Their Relevance to Healthy and Diseased Kidney Podocytes. Current Chemical Biology, 2008, 2, 68-82.	0.5	0
52	Emerging Roles for Metabolic Engineering - Understanding Primitive and Complex Metabolic Models and Their Relevance to Healthy and Diseased Kidney Podocytes. Current Chemical Biology, 2008, 2, 68-82.	0.5	1
53	Understanding signaling in yeast: Insights from network analysis. Biotechnology and Bioengineering, 2007, 97, 1246-1258.	3.3	28
54	Reconstruction and flux analysis of coupling between metabolic pathways of astrocytes and neurons: application to cerebral hypoxia. Theoretical Biology and Medical Modelling, 2007, 4, 48.	2.1	74

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55	Effect of carbon source perturbations on transcriptional regulation of metabolic fluxes in Saccharomyces cerevisiae. BMC Systems Biology, 2007, 1, 18.	3.0	38
56	Integration of metabolome data with metabolic networks reveals reporter reactions. Molecular Systems Biology, 2006, 2, 50.	7.2	131
57	Annotation of unknown yeast ORFs by correlation analysis of microarray data and extensive literature searches. Yeast, 2006, 23, 553-571.	1.7	9
58	Analysis of enzymopathies in the human red blood cells by constraint-based stoichiometric modeling approaches. Computational Biology and Chemistry, 2006, 30, 327-338.	2.3	13
59	Integrative investigation of metabolic and transcriptomic data. BMC Bioinformatics, 2006, 7, 203.	2.6	31
60	Modelling of calcium dynamics in brain energy metabolism and Alzheimer's disease. Computational Biology and Chemistry, 2005, 29, 151-162.	2.3	18
61	Bubble Column Reactors. ChemInform, 2005, 36, no.	0.0	2
62	Bubble column reactors. Process Biochemistry, 2005, 40, 2263-2283.	3.7	760
63	A Study on Hydrodynamics and Heat Transfer in a Bubble Column Reactor with Yeast and Bacterial Cell Suspensions. Canadian Journal of Chemical Engineering, 2005, 83, 764-773.	1.7	24
64	Flux analysis of recombinant Saccharomyces cerevisiae YPB-G utilizing starch for optimal ethanol production. Process Biochemistry, 2004, 39, 2097-2108.	3.7	39
65	Transfer function approach in structured modeling of recombinant yeast utilizing starch. Process Biochemistry, 2004, 39, 1237-1248.	3.7	4
66	Metabolic pathway analysis of yeast strengthens the bridge between transcriptomics and metabolic networks. Biotechnology and Bioengineering, 2004, 86, 251-260.	3.3	70
67	Metabolic pathway analysis of enzyme-deficient human red blood cells. BioSystems, 2004, 78, 49-67.	2.0	39
68	Optimal substrate feeding policy for fed-batch cultures of S. cerevisiae expressing bifunctional fusion protein displaying amylolytic activities. Enzyme and Microbial Technology, 2003, 33, 262-269.	3.2	12
69	Modeling of the induced expression for high-level production of a foreign protein by recombinant E. coli under the control of the T7 phage promoter. Process Biochemistry, 2003, 39, 315-323.	3.7	6
70	Cybernetic modelling of growth and ethanol production in a recombinant Saccharomyces cerevisiae strain secreting a bifunctional fusion protein. Process Biochemistry, 2002, 37, 1439-1445.	3.7	17
71	Improvement of ethanol production from starch by recombinant yeast through manipulation of environmental factors. Enzyme and Microbial Technology, 2002, 31, 640-647.	3.2	36
72	Recovery of antithrombin III from milk by expanded bed chromatography. Journal of Chromatography A, 2002, 944, 203-210.	3.7	10

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73	A structured model for intracellular EcoRI endonuclease production by recombinant E. coli 294. Process Biochemistry, 2001, 36, 621-627.	3.7	7
74	Plasmid stability in a recombinantS cerevisiaestrain secreting a bifunctional fusion protein. Journal of Chemical Technology and Biotechnology, 2001, 76, 612-618.	3.2	13
75	Recovery of actinorhodin from fermentation broth. Journal of Chromatography A, 2001, 914, 67-76.	3.7	10
76	The stability of enzymes after sonication. Process Biochemistry, 2000, 35, 1037-1043.	3.7	156
77	Quantitative description of protein adsorption by frontal analysis. Process Biochemistry, 2000, 36, 141-148.	3.7	14
78	Growth ofThermus aquaticusand itsTaqI endonuclease production. Acta Biotechnologica, 1999, 19, 45-56.	0.9	2
79	Purification of TaqI endonuclease from Thermus aquaticus. Journal of Chromatography A, 1998, 828, 373-381.	3.7	3
80	Mathematical description of ethanol fermentation by immobilised Saccharomyces cerevisiae. Process Biochemistry, 1998, 33, 763-771.	3.7	69
81	Analysis of Protein Adsorption to Ion Exchangers in a Finite Bath. Journal of Chemical Technology and Biotechnology, 1997, 69, 405-414.	3.2	15
82	Actinorhodin production by Streptomyces coelicolor A3(2): kinetic parameters related to growth, substrate uptake and production. Applied Microbiology and Biotechnology, 1993, 40, 457.	3.6	18
83	Understanding the Link between Inflammasome and Apoptosis through the Response of THP-1 Cells against Drugs Using Droplet-Based Microfluidics. ACS Omega, 0, , .	3.5	2