

Kutlu Ã- Ãœelgen

List of Publications by Year in descending order

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Version: 2024-02-01

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	Bubble column reactors. <i>Process Biochemistry</i> , 2005, 40, 2263-2283.	3.7	760
2	The stability of enzymes after sonication. <i>Process Biochemistry</i> , 2000, 35, 1037-1043.	3.7	156
3	PHISTO: pathogen-host interaction search tool. <i>Bioinformatics</i> , 2013, 29, 1357-1358.	4.1	145
4	Integration of metabolome data with metabolic networks reveals reporter reactions. <i>Molecular Systems Biology</i> , 2006, 2, 50.	7.2	131
5	Advances in microfluidic devices made from thermoplastics used in cell biology and analyses. <i>Biomicrofluidics</i> , 2017, 11, 051502.	2.4	82
6	Reconstruction and flux analysis of coupling between metabolic pathways of astrocytes and neurons: application to cerebral hypoxia. <i>Theoretical Biology and Medical Modelling</i> , 2007, 4, 48.	2.1	74
7	Metabolic pathway analysis of yeast strengthens the bridge between transcriptomics and metabolic networks. <i>Biotechnology and Bioengineering</i> , 2004, 86, 251-260.	3.3	70
8	Mathematical description of ethanol fermentation by immobilised <i>Saccharomyces cerevisiae</i> . <i>Process Biochemistry</i> , 1998, 33, 763-771.	3.7	69
9	A review on wax printed microfluidic paper-based devices for international health. <i>Biomicrofluidics</i> , 2017, 11, 041501.	2.4	69
10	Infection Strategies of Bacterial and Viral Pathogens through Pathogen-Human Protein-Protein Interactions. <i>Frontiers in Microbiology</i> , 2012, 3, 46.	3.5	63
11	Systematic analysis of transcription-level effects of neurodegenerative diseases on human brain metabolism by a newly reconstructed brain-specific metabolic network. <i>FEBS Open Bio</i> , 2014, 4, 542-553.	2.3	51
12	Comparative interactomics for virus-human protein-protein interactions: DNA viruses versus RNA viruses. <i>FEBS Open Bio</i> , 2017, 7, 96-107.	2.3	42
13	Flux analysis of recombinant <i>Saccharomyces cerevisiae</i> YPB-G utilizing starch for optimal ethanol production. <i>Process Biochemistry</i> , 2004, 39, 2097-2108.	3.7	39
14	Metabolic pathway analysis of enzyme-deficient human red blood cells. <i>BioSystems</i> , 2004, 78, 49-67.	2.0	39
15	Systems biology of pathogen-host interaction: Networks of protein-protein interaction within pathogens and pathogen-human interactions in the post-genomic era. <i>Biotechnology Journal</i> , 2013, 8, 85-96.	3.5	39
16	Screening applications in drug discovery based on microfluidic technology. <i>Biomicrofluidics</i> , 2016, 10, 011502.	2.4	39
17	Effect of carbon source perturbations on transcriptional regulation of metabolic fluxes in <i>Saccharomyces cerevisiae</i> . <i>BMC Systems Biology</i> , 2007, 1, 18.	3.0	38
18	Improvement of ethanol production from starch by recombinant yeast through manipulation of environmental factors. <i>Enzyme and Microbial Technology</i> , 2002, 31, 640-647.	3.2	36

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19	Integrative investigation of metabolic and transcriptomic data. BMC Bioinformatics, 2006, 7, 203.	2.6	31
20	Molecular facets of sphingolipids: Mediators of diseases. Biotechnology Journal, 2009, 4, 1028-1041.	3.5	29
21	Understanding signaling in yeast: Insights from network analysis. Biotechnology and Bioengineering, 2007, 97, 1246-1258.	3.3	28
22	Genome-Scale Metabolic Modeling for Unraveling Molecular Mechanisms of High Threat Pathogens. Frontiers in Cell and Developmental Biology, 2020, 8, 566702.	3.7	26
23	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
24	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
25	Integration of Metabolic Modeling and Phenotypic Data in Evaluation and Improvement of Ethanol Production Using Respiration-Deficient Mutants of <i>Saccharomyces cerevisiae</i> . Applied and Environmental Microbiology, 2008, 74, 5809-5816.	3.1	23
26	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
27	Actinorhodin production by <i>Streptomyces coelicolor</i> A3(2): kinetic parameters related to growth, substrate uptake and production. Applied Microbiology and Biotechnology, 1993, 40, 457.	3.6	18
28	Modelling of calcium dynamics in brain energy metabolism and Alzheimer's disease. Computational Biology and Chemistry, 2005, 29, 151-162.	2.3	18
29	Fabrication of cyclo olefin polymer microfluidic devices for trapping and culturing of yeast cells. Biomedical Microdevices, 2017, 19, 40.	2.8	18
30	Cybernetic modelling of growth and ethanol production in a recombinant <i>Saccharomyces cerevisiae</i> strain secreting a bifunctional fusion protein. Process Biochemistry, 2002, 37, 1439-1445.	3.7	17
31	Drug targets for tumorigenesis: Insights from structural analysis of EGFR signaling network. Journal of Biomedical Informatics, 2009, 42, 228-236.	4.3	16
32	Analysis of Protein Adsorption to Ion Exchangers in a Finite Bath. Journal of Chemical Technology and Biotechnology, 1997, 69, 405-414.	3.2	15
33	Quantitative description of protein adsorption by frontal analysis. Process Biochemistry, 2000, 36, 141-148.	3.7	14
34	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
35	Plasmid stability in a recombinant <i>S. cerevisiae</i> strain secreting a bifunctional fusion protein. Journal of Chemical Technology and Biotechnology, 2001, 76, 612-618.	3.2	13
36	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

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37	Drug target identification in sphingolipid metabolism by computational systems biology tools: Metabolic control analysis and metabolic pathway analysis. <i>Journal of Biomedical Informatics</i> , 2010, 43, 537-549.	4.3	13
38	Optimal substrate feeding policy for fed-batch cultures of <i>S. cerevisiae</i> expressing bifunctional fusion protein displaying amylolytic activities. <i>Enzyme and Microbial Technology</i> , 2003, 33, 262-269.	3.2	12
39	Reconstruction and crosstalk of protein-protein interaction networks of Wnt and Hedgehog signaling in <i>Drosophila melanogaster</i> . <i>Computational Biology and Chemistry</i> , 2011, 35, 282-292.	2.3	12
40	Targeting the Akt1 allosteric site to identify novel scaffolds through virtual screening. <i>Computational Biology and Chemistry</i> , 2014, 48, 1-13.	2.3	12
41	Reconstruction of Protein-Protein Interaction Network of Insulin Signaling in <i>Homo Sapiens</i> . <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-7.	3.0	11
42	Recovery of actinorhodin from fermentation broth. <i>Journal of Chromatography A</i> , 2001, 914, 67-76.	3.7	10
43	Recovery of antithrombin III from milk by expanded bed chromatography. <i>Journal of Chromatography A</i> , 2002, 944, 203-210.	3.7	10
44	A Network-Based Approach on Elucidating the Multi-Faceted Nature of Chronological Aging in <i>S. cerevisiae</i> . <i>PLoS ONE</i> , 2011, 6, e29284.	2.5	10
45	Transcriptional remodeling in response to transfer upon carbon-limited or metformin-supplemented media in <i>S. cerevisiae</i> and its effect on chronological life span. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 6775-6789.	3.6	10
46	Investigation of novel pharmacological chaperones for Gaucher Disease. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 76, 364-378.	2.4	10
47	Annotation of unknown yeast ORFs by correlation analysis of microarray data and extensive literature searches. <i>Yeast</i> , 2006, 23, 553-571.	1.7	9
48	The impact of medium acidity on the chronological life span of <i>Saccharomyces cerevisiae</i> lipids, signaling cascades, mitochondrial and vacuolar functions. <i>FEBS Journal</i> , 2014, 281, 1281-1303.	4.7	8
49	A structured model for intracellular EcoRI endonuclease production by recombinant <i>E. coli</i> 294. <i>Process Biochemistry</i> , 2001, 36, 621-627.	3.7	7
50	Exometabolic and transcriptional response in relation to phenotype and gene copy number in respiration-related deletion mutants of <i>S. cerevisiae</i> . <i>Yeast</i> , 2008, 25, 661-672.	1.7	7
51	Assessment of crosstalks between the Snf1 kinase complex and sphingolipid metabolism in <i>S. cerevisiae</i> via systems biology approaches. <i>Molecular BioSystems</i> , 2013, 9, 2914.	2.9	7
52	Inflammatory response and its relation to sphingolipid metabolism proteins: Chaperones as potential indirect anti-inflammatory agents. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019, 114, 153-219.	2.3	7
53	Advances in Genome-Scale Metabolic Modeling toward Microbial Community Analysis of the Human Microbiome. <i>ACS Synthetic Biology</i> , 2021, 10, 2121-2137.	3.8	7
54	Thermoplastic microfluidic bioreactors with integrated electrodes to study tumor treating fields on yeast cells. <i>Biomicrofluidics</i> , 2020, 14, 034104.	2.4	7

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55	Modeling of the induced expression for high-level production of a foreign protein by recombinant <i>E. coli</i> under the control of the T7 phage promoter. <i>Process Biochemistry</i> , 2003, 39, 315-323.	3.7	6
56	Sphingosine kinase 1 (SK1) allosteric inhibitors that target the dimerization site. <i>Computational Biology and Chemistry</i> , 2017, 69, 64-76.	2.3	6
57	The Toxicity of Polystyrene-Based Nanoparticles in <i>Saccharomyces cerevisiae</i> Is Associated with Nanoparticle Charge and Uptake Mechanism. <i>Chemical Research in Toxicology</i> , 2021, 34, 1055-1068.	3.3	6
58	Stoichiometric network reconstruction and analysis of yeast sphingolipid metabolism incorporating different states of hydroxylation. <i>BioSystems</i> , 2011, 104, 63-75.	2.0	5
59	Multimomics Approach to Novel Therapeutic Targets for Cancer and Aging-Related Diseases: Role of Sld7 in Yeast Aging Network. <i>OMICS A Journal of Integrative Biology</i> , 2017, 21, 100-113.	2.0	5
60	Cell trapping microfluidic chip made of Cyclo olefin polymer enabling two concurrent cell biology experiments with long term durability. <i>Biomedical Microdevices</i> , 2020, 22, 20.	2.8	5
61	Understanding HMF inhibition on yeast growth coupled with ethanol production for the improvement of bio-based industrial processes. <i>Process Biochemistry</i> , 2022, 121, 425-438.	3.7	5
62	Transfer function approach in structured modeling of recombinant yeast utilizing starch. <i>Process Biochemistry</i> , 2004, 39, 1237-1248.	3.7	4
63	A low cost PS based microfluidic platform to investigate cell cycle towards developing a therapeutic strategy for cancer. <i>Biomedical Microdevices</i> , 2018, 20, 57.	2.8	4
64	A Drug Repurposing and Protein-Protein Interaction Network Study of Ribosomopathies Using Yeast as a Model System. <i>OMICS A Journal of Integrative Biology</i> , 2020, 24, 96-109.	2.0	4
65	Purification of TaqI endonuclease from <i>Thermus aquaticus</i> . <i>Journal of Chromatography A</i> , 1998, 828, 373-381.	3.7	3
66	Discovery of YopE Inhibitors by Pharmacophore-Based Virtual Screening and Docking. , 2013, 2013, 1-12.		3
67	Preliminary Studies on Flow Assisted Propagation of Fluorescent Microbeads in Microfluidic Channels for Molecular Communication Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 294-302.	0.3	3
68	Growth of <i>Thermus aquaticus</i> and its TaqI endonuclease production. <i>Acta Biotechnologica</i> , 1999, 19, 45-56.	0.9	2
69	Bubble Column Reactors. <i>ChemInform</i> , 2005, 36, no.	0.0	2
70	Aminopurine derivatives as putative SopE inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 137-145.	5.2	2
71	Fabrication of steel displacement amplifiers integrated to microfluidic channels. , 2016, , .		2
72	Carvacrol Enhances the Antimicrobial Potency of Berberine in <i>Bacillus subtilis</i> . <i>Current Microbiology</i> , 2022, 79, 135.	2.2	2

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73	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
74	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
75	Computational prediction of protein-protein interactions in sphingolipid signaling network. , 2009, , .		1
76	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
77	Reconstruction of Wnt/Calcium signaling pathway in C. elegans. , 2009, , .		0
78	Investigation of the relationship between sphingolipid and insulin signaling pathways. , 2010, , .		0
79	Identification of potential Tpx inhibitors against pathogen-host interactions. Computational Biology and Chemistry, 2015, 58, 126-138.	2.3	0
80	Fabrication Protocol for Thermoplastic Microfluidic Devices: Nanoliter Volume Bioreactors for Cell Culturing. Methods in Molecular Biology, 2021, , 1.	0.9	0
81	Live Cell Imaging of Peptide Uptake Using a Microfluidic Platform. International Journal of Peptide Research and Therapeutics, 2021, 27, 2003-2013.	1.9	0
82	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
83	In Silico Identification of Novel Orthosteric Inhibitors of Sphingosine Kinase 1 (SK1). Current Protein and Peptide Science, 2018, 19, 430-444.	1.4	0