

# Arnau Montagud

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

886  
citations

567281

15  
h-index

526287

27  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aberrant ERBB4-SRC Signaling as a Hallmark of Group 4 Medulloblastoma Revealed by Integrative Phosphoproteomic Profiling. <i>Cancer Cell</i> , 2018, 34, 379-395.e7.	16.8	104
2	Reconstruction and analysis of genome-scale metabolic model of a photosynthetic bacterium. <i>BMC Systems Biology</i> , 2010, 4, 156.	3.0	100
3	PhysiBoSS: a multi-scale agent-based modelling framework integrating physical dimension and cell signalling. <i>Bioinformatics</i> , 2019, 35, 1188-1196.	4.1	88
4	Microbial Diversity in the Midguts of Field and Lab-Reared Populations of the European Corn Borer <i>Ostrinia nubilalis</i> . <i>PLoS ONE</i> , 2011, 6, e21751.	2.5	71
5	Personalization of Logical Models With Multi-Omics Data Allows Clinical Stratification of Patients. <i>Frontiers in Physiology</i> , 2018, 9, 1965.	2.8	66
6	COVID19 Disease Map, a computational knowledge repository of virus-host interaction mechanisms. <i>Molecular Systems Biology</i> , 2021, 17, e10387.	7.2	53
7	Flux coupling and transcriptional regulation within the metabolic network of the photosynthetic bacterium <i>Synechocystis</i> sp. PCC6803. <i>Biotechnology Journal</i> , 2011, 6, 330-342.	3.5	51
8	Improving a <i>Synechocystis</i> -based photoautotrophic chassis through systematic genome mapping and validation of neutral sites. <i>DNA Research</i> , 2015, 22, 425-437.	3.4	49
9	Patient-specific Boolean models of signalling networks guide personalised treatments. <i>ELife</i> , 2022, 11, .	6.0	38
10	Metabolic flux analysis of the hydrogen production potential in <i>Synechocystis</i> sp. PCC6803. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8828-8838.	7.1	31
11	Construction of a chassis for hydrogen production: physiological and molecular characterization of a <i>Synechocystis</i> sp. PCC 6803 mutant lacking a functional bidirectional hydrogenase. <i>Microbiology (United Kingdom)</i> , 2012, 158, 448-464.	1.8	30
12	Generation and Evaluation of a Genome-Scale Metabolic Network Model of <i>Synechococcus elongatus</i> PCC7942. <i>Metabolites</i> , 2014, 4, 680-698.	2.9	29
13	Systems biology at the giga-scale: Large multiscale models of complex, heterogeneous multicellular systems. <i>Current Opinion in Systems Biology</i> , 2021, 28, 100385.	2.6	25
14	Artificial Intelligence-Aided Precision Medicine for COVID-19: Strategic Areas of Research and Development. <i>Journal of Medical Internet Research</i> , 2021, 23, e22453.	4.3	21
15	Experimental and Modeling Analysis of <i>Synechocystis</i> sp. PCC 6803 Growth. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2012, 22, 71-82.	1.0	16
16	Conceptual and computational framework for logical modelling of biological networks deregulated in diseases. <i>Briefings in Bioinformatics</i> , 2019, 20, 1238-1249.	6.5	15
17	Automation on the Generation of Genome-Scale Metabolic Models. <i>Journal of Computational Biology</i> , 2012, 19, 1295-1306.	1.6	14
18	Parallel model exploration for tumor treatment simulations. <i>Computational Intelligence</i> , 2022, 38, 1379-1401.	3.2	9

#	ARTICLE	IF	CITATIONS
19	BioFVM-X: An MPI+OpenMP 3-D Simulator for Biological Systems. Lecture Notes in Computer Science, 2021, , 266-279.	1.3	8
20	Yeast cultures with UCP1 uncoupling activity as a heating device. New Biotechnology, 2009, 26, 300-306.	4.4	7
21	New Approach for Phylogenetic Tree Recovery Based on Genome-Scale Metabolic Networks. Journal of Computational Biology, 2014, 21, 508-519.	1.6	7
22	<i>Synechocystis</i> sp. PCC6803 metabolic models for the enhanced production of hydrogen. Critical Reviews in Biotechnology, 2015, 35, 184-198.	9.0	7
23	Optimizing Dosage-Specific Treatments in a Multi-Scale Model of a Tumor Growth. Frontiers in Molecular Biosciences, 2022, 9, 836794.	3.5	6
24	Aequorin-expressing yeast emits light under electric control. Journal of Biotechnology, 2011, 152, 93-95.	3.8	4
25	Large scale evaluation of differences between network-based and pairwise sequence-alignment-based methods of dendrogram reconstruction. PLoS ONE, 2019, 14, e0221631.	2.5	3
26	INforE. , 2020, , .		3
27	Vanillin cell sensor. IET Synthetic Biology, 2007, 1, 74-78.	0.2	2
28	A MODULAR SYNTHETIC DEVICE TO CALIBRATE PROMOTERS. Journal of Biological Systems, 2012, 20, 37-55.	1.4	0