

Marc T Facciotti

List of Publications by Year in descending order

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65
papers

3,657
citations

236833

25
h-index

138417

58
g-index

72
all docs

72
docs citations

72
times ranked

4935
citing authors

#	ARTICLE	IF	CITATIONS
1	The Inferelator: an algorithm for learning parsimonious regulatory networks from systems-biology data sets de novo. <i>Genome Biology</i> , 2006, 7, R36.	13.9	456
2	An Integrated Pipeline for de Novo Assembly of Microbial Genomes. <i>PLoS ONE</i> , 2012, 7, e42304.	1.1	436
3	A Predictive Model for Transcriptional Control of Physiology in a Free Living Cell. <i>Cell</i> , 2007, 131, 1354-1365.	13.5	284
4	Genome sequence of <i>Haloarcula marismortui</i> : A halophilic archaeon from the Dead Sea. <i>Genome Research</i> , 2004, 14, 2221-2234.	2.4	268
5	Evaluation of Algorithm Performance in ChIP-Seq Peak Detection. <i>PLoS ONE</i> , 2010, 5, e11471.	1.1	244
6	Phylogenetically Driven Sequencing of Extremely Halophilic Archaea Reveals Strategies for Static and Dynamic Osmo-response. <i>PLoS Genetics</i> , 2014, 10, e1004784.	1.5	136
7	Candidatus <i>Frankia Datiscae</i> Dg1, the Actinobacterial Microsymbiont of <i>Datisca glomerata</i> , Expresses the Canonical nod Genes nodABC in Symbiosis with Its Host Plant. <i>PLoS ONE</i> , 2015, 10, e0127630.	1.1	131
8	Structure of an Early Intermediate in the M-State Phase of the Bacteriorhodopsin Photocycle. <i>Biophysical Journal</i> , 2001, 81, 3442-3455.	0.2	114
9	Prevalence of transcription promoters within archaeal operons and coding sequences. <i>Molecular Systems Biology</i> , 2009, 5, 285.	3.2	114
10	Mauve Assembly Metrics. <i>Bioinformatics</i> , 2011, 27, 2756-2757.	1.8	108
11	Microscale sulfur cycling in the phototrophic pink berry consortia of the <i>S</i> ippewissett <i>S</i> alt <i>M</i> arsh. <i>Environmental Microbiology</i> , 2014, 16, 3398-3415.	1.8	106
12	General transcription factor specified global gene regulation in archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4630-4635.	3.3	105
13	A systems view of haloarchaeal strategies to withstand stress from transition metals. <i>Genome Research</i> , 2006, 16, 841-854.	2.4	101
14	Crystal structure of the D85S mutant of bacteriorhodopsin: model of an O-like photocycle intermediate. <i>Journal of Molecular Biology</i> , 2001, 313, 615-628.	2.0	94
15	Ultrafast Protein Dynamics of Bacteriorhodopsin Probed by Photon Echo and Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6067-6080.	1.2	94
16	Improved stearate phenotype in transgenic canola expressing a modified acyl-acyl carrier protein thioesterase. <i>Nature Biotechnology</i> , 1999, 17, 593-597.	9.4	82
17	IRF-1 and miRNA126 Modulate VCAM-1 Expression in Response to a High-Fat Meal. <i>Circulation Research</i> , 2012, 111, 1054-1064.	2.0	81
18	A workflow for genome-wide mapping of archaeal transcription factors with ChIP-seq. <i>Nucleic Acids Research</i> , 2012, 40, e74-e74.	6.5	53

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19	Halobacterium salinarum NRC-1 PeptideAtlas: Toward Strategies for Targeted Proteomics and Improved Proteome Coverage. <i>Journal of Proteome Research</i> , 2008, 7, 3755-3764.	1.8	46
20	Model-based deconvolution of genome-wide DNA binding. <i>Bioinformatics</i> , 2008, 24, 396-403.	1.8	44
21	Sequencing of Seven Haloarchaeal Genomes Reveals Patterns of Genomic Flux. <i>PLoS ONE</i> , 2012, 7, e41389.	1.1	42
22	Deprotonation of D96 in Bacteriorhodopsin Opens the Proton Uptake Pathway. <i>Structure</i> , 2013, 21, 290-297.	1.6	35
23	Role of Squalene in the Organization of Monolayers Derived from Lipid Extracts of Halobacterium salinarum. <i>Langmuir</i> , 2013, 29, 7922-7930.	1.6	35
24	Characterization of Conditions Required for X-Ray Diffraction Experiments with Protein Microcrystals. <i>Biophysical Journal</i> , 2000, 78, 3178-3185.	0.2	32
25	Crystal Structure of the Bromide-Bound D85S Mutant of Bacteriorhodopsin: Principles of Ion Pumping. <i>Biophysical Journal</i> , 2003, 85, 451-458.	0.2	29
26	Large scale physiological readjustment during growth enables rapid, comprehensive and inexpensive systems analysis. <i>BMC Systems Biology</i> , 2010, 4, 64.	3.0	27
27	Crystal structures of bR(D85S) favor a model of bacteriorhodopsin as a hydroxyl-ion pump. <i>FEBS Letters</i> , 2004, 564, 301-306.	1.3	24
28	Molecular dissection of the plant acyl-acyl carrier protein thioesterases. <i>Lipid - Fett</i> , 1998, 100, 167-172.	0.6	21
29	The Effects of Practice-Based Training on Graduate Teaching Assistants' Classroom Practices. <i>CBE Life Sciences Education</i> , 2017, 16, ar58.	1.1	20
30	Evolution of context dependent regulation by expansion of feast/famine regulatory proteins. <i>BMC Systems Biology</i> , 2014, 8, 122.	3.0	19
31	Systems Biology Experimental Design - Considerations for Building Predictive Gene Regulatory Network Models for Prokaryotic Systems. <i>Current Genomics</i> , 2004, 5, 527-544.	0.7	18
32	A Monte Carlo-based framework enhances the discovery and interpretation of regulatory sequence motifs. <i>BMC Bioinformatics</i> , 2012, 13, 317.	1.2	17
33	Elucidating Substrate Promiscuity within the FabI Enzyme Family. <i>ACS Chemical Biology</i> , 2017, 12, 2465-2473.	1.6	17
34	Membrane-protein stability in a phospholipid-based crystallization medium. <i>Journal of Structural Biology</i> , 2006, 154, 223-231.	1.3	15
35	Promoter Element Arising from the Fusion of Standard BioBrick Parts. <i>ACS Synthetic Biology</i> , 2013, 2, 111-120.	1.9	15
36	Global gene expression analysis of the Myxococcus xanthus developmental time course. <i>Genomics</i> , 2021, 113, 120-134.	1.3	14

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37	Energy transduction in transmembrane ion pumps. Trends in Biochemical Sciences, 2004, 29, 445-451.	3.7	13
38	Conserved Substitution Patterns around Nucleosome Footprints in Eukaryotes and Archaea Derive from Frequent Nucleosome Repositioning through Evolution. PLoS Computational Biology, 2013, 9, e1003373.	1.5	13
39	Using Student Annotated Hashtags and Emojis to Collect Nuanced Affective States. , 2017, , .		13
40	Specificity of Anion Binding in the Substrate Pocket of Bacteriorhodopsin. Biochemistry, 2004, 43, 4934-4943.	1.2	12
41	Regulatory Multidimensionality of Gas Vesicle Biogenesis in <i>Halobacterium salinarum</i> NRC-1. Archaea, 2011, 2011, 1-13.	2.3	11
42	A Large and Phylogenetically Diverse Class of Type 1 Opsins Lacking a Canonical Retinal Binding Site. PLoS ONE, 2016, 11, e0156543.	1.1	11
43	JContextExplorer: a tree-based approach to facilitate cross-species genomic context comparison. BMC Bioinformatics, 2013, 14, 18.	1.2	10
44	Crystallization of membrane proteins from media composed of connected-bilayer gels. Biopolymers, 2002, 66, 300-316.	1.2	9
45	Gene Gangs of the Chloroviruses: Conserved Clusters of Collinear Monocistronic Genes. Viruses, 2018, 10, 576.	1.5	9
46	Thermodynamically inspired classifier for molecular phenotypes of health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19181-19182.	3.3	8
47	Classifying and visualizing students' cognitive engagement in course readings. , 2018, , .		8
48	Identification of an archaeal mercury regulon by chromatin immunoprecipitation. Microbiology (United Kingdom), 2015, 161, 2423-2433.	0.7	8
49	#Confused and beyond. , 2020, , .		8
50	Schiff Base Switch II Precedes the Retinal Thermal Isomerization in the Photocycle of Bacteriorhodopsin. PLoS ONE, 2013, 8, e69882.	1.1	7
51	RiboTALE: A modular, inducible system for accurate gene expression control. Scientific Reports, 2015, 5, 10658.	1.6	5
52	Draft genome sequence of Halorubrum tropicale strain V5, a novel halophilic archaeon isolated from the solar salterns of Cabo Rojo, Puerto Rico. Genomics Data, 2016, 7, 284-286.	1.3	5
53	Series on: Strategies for Innovation and Interdisciplinary Translational Research. Journal of Investigative Medicine, 2009, 57, 467-467.	0.7	4
54	Draft genome of Haloarcula rubripromontorii strain SL3, a novel halophilic archaeon isolated from the solar salterns of Cabo Rojo, Puerto Rico. Genomics Data, 2016, 7, 287-289.	1.3	4

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55	Draft Genome Sequences of 16 Halophilic Prokaryotes Isolated from Diverse Environments. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	4
56	Training Interdisciplinary Scientists for Systems Biology. <i>Journal of Investigative Medicine</i> , 2009, 57, 471-473.	0.7	3
57	Stable Closure of the Cytoplasmic Half-Channel Is Required for Efficient Proton Transport at Physiological Membrane Potentials in the Bacteriorhodopsin Catalytic Cycle. <i>Biochemistry</i> , 2014, 53, 2380-2390.	1.2	3
58	New Methods for Confusion Detection in Course Forums: Student, Teacher, and Machine. <i>IEEE Transactions on Learning Technologies</i> , 2021, 14, 665-679.	2.2	3
59	Strategies for Innovation and Interdisciplinary Translational Research. <i>Journal of Investigative Medicine</i> , 2009, 57, 477-481.	0.7	2
60	Improved Motif Detection in Large Sequence Sets with Random Sampling in a Kepler workflow. <i>Procedia Computer Science</i> , 2012, 9, 1999.	1.2	1
61	Combining Microbial Culturing With Mathematical Modeling in an Introductory Course-Based Undergraduate Research Experience. <i>Frontiers in Microbiology</i> , 2020, 11, 581903.	1.5	1
62	The Exploration of Novel Regulatory Relationships Drives Haloarchaeal Operon-Like Structural Dynamics over Short Evolutionary Distances. <i>Microorganisms</i> , 2020, 8, 1900.	1.6	1
63	QS437. Integrated Biological and Computational Analysis of Important But Largely Under-Studied Organisms. <i>Journal of Surgical Research</i> , 2008, 144, 441.	0.8	0
64	Seeding Course Forums using the Teacher-in-the-Loop. , 2021, , .		0
65	Protein Dynamics of Bacteriorhodopsin probed by Photon Echo and Transient Absorption Spectroscopy. <i>Springer Series in Chemical Physics</i> , 2003, , 646-648.	0.2	0