

Marc T Facciotti

List of Publications by Year in descending order

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Version: 2024-02-01

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	Seeding Course Forums using the Teacher-in-the-Loop. , 2021, , .		0
2	Global gene expression analysis of the <i>Myxococcus xanthus</i> developmental time course. <i>Genomics</i> , 2021, 113, 120-134.	1.3	14
3	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
4	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
5	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
6	Draft Genome Sequences of 16 Halophilic Prokaryotes Isolated from Diverse Environments. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	4
7	#Confused and beyond. , 2020, , .		8
8	Gene Gangs of the Chloroviruses: Conserved Clusters of Collinear Monocistronic Genes. <i>Viruses</i> , 2018, 10, 576.	1.5	9
9	Classifying and visualizing students' cognitive engagement in course readings. , 2018, , .		8
10	Elucidating Substrate Promiscuity within the FabI Enzyme Family. <i>ACS Chemical Biology</i> , 2017, 12, 2465-2473.	1.6	17
11	The Effects of Practice-Based Training on Graduate Teaching Assistantsâ€™ Classroom Practices. <i>CBE Life Sciences Education</i> , 2017, 16, ar58.	1.1	20
12	Using Student Annotated Hashtags and Emojis to Collect Nuanced Affective States. , 2017, , .		13
13	Draft genome of <i>Haloarcula rubripromontorii</i> strain SL3, a novel halophilic archaeon isolated from the solar salterns of Cabo Rojo, Puerto Rico. <i>Genomics Data</i> , 2016, 7, 287-289.	1.3	4
14	Draft genome sequence of <i>Halorubrum tropicale</i> strain V5, a novel halophilic archaeon isolated from the solar salterns of Cabo Rojo, Puerto Rico. <i>Genomics Data</i> , 2016, 7, 284-286.	1.3	5
15	A Large and Phylogenetically Diverse Class of Type 1 Opsins Lacking a Canonical Retinal Binding Site. <i>PLoS ONE</i> , 2016, 11, e0156543.	1.1	11
16	RiboTALE: A modular, inducible system for accurate gene expression control. <i>Scientific Reports</i> , 2015, 5, 10658.	1.6	5
17	Identification of an archaeal mercury regulon by chromatin immunoprecipitation. <i>Microbiology (United Kingdom)</i> , 2015, 161, 2423-2433.	0.7	8
18	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

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19	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
20	Microscale sulfur cycling in the phototrophic pink berry consortia of the <i>S. ippewissettensis</i> and <i>M. arsh</i> . <i>Environmental Microbiology</i> , 2014, 16, 3398-3415.	1.8	106
21	Evolution of context dependent regulation by expansion of feast/famine regulatory proteins. <i>BMC Systems Biology</i> , 2014, 8, 122.	3.0	19
22	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
23	JContextExplorer: a tree-based approach to facilitate cross-species genomic context comparison. <i>BMC Bioinformatics</i> , 2013, 14, 18.	1.2	10
24	Thermodynamically inspired classifier for molecular phenotypes of health and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19181-19182.	3.3	8
25	Promoter Element Arising from the Fusion of Standard BioBrick Parts. <i>ACS Synthetic Biology</i> , 2013, 2, 111-120.	1.9	15
26	Deprotonation of D96 in Bacteriorhodopsin Opens the Proton Uptake Pathway. <i>Structure</i> , 2013, 21, 290-297.	1.6	35
27	Role of Squalene in the Organization of Monolayers Derived from Lipid Extracts of <i>Halobacterium salinarum</i> . <i>Langmuir</i> , 2013, 29, 7922-7930.	1.6	35
28	Conserved Substitution Patterns around Nucleosome Footprints in Eukaryotes and Archaea Derive from Frequent Nucleosome Repositioning through Evolution. <i>PLoS Computational Biology</i> , 2013, 9, e1003373.	1.5	13
29	Schiff Base Switch II Precedes the Retinal Thermal Isomerization in the Photocycle of Bacteriorhodopsin. <i>PLoS ONE</i> , 2013, 8, e69882.	1.1	7
30	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
31	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
32	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
33	A Monte Carlo-based framework enhances the discovery and interpretation of regulatory sequence motifs. <i>BMC Bioinformatics</i> , 2012, 13, 317.	1.2	17
34	An Integrated Pipeline for de Novo Assembly of Microbial Genomes. <i>PLoS ONE</i> , 2012, 7, e42304.	1.1	436
35	Sequencing of Seven Haloarchaeal Genomes Reveals Patterns of Genomic Flux. <i>PLoS ONE</i> , 2012, 7, e41389.	1.1	42
36	Regulatory Multidimensionality of Gas Vesicle Biogenesis in <i>Halobacterium salinarum</i> NRC-1. <i>Archaea</i> , 2011, 2011, 1-13.	2.3	11

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37	Mauve Assembly Metrics. <i>Bioinformatics</i> , 2011, 27, 2756-2757.	1.8	108
38	Large scale physiological readjustment during growth enables rapid, comprehensive and inexpensive systems analysis. <i>BMC Systems Biology</i> , 2010, 4, 64.	3.0	27
39	Evaluation of Algorithm Performance in ChIP-Seq Peak Detection. <i>PLoS ONE</i> , 2010, 5, e11471.	1.1	244
40	Prevalence of transcription promoters within archaeal operons and coding sequences. <i>Molecular Systems Biology</i> , 2009, 5, 285.	3.2	114
41	Series on: Strategies for Innovation and Interdisciplinary Translational Research. <i>Journal of Investigative Medicine</i> , 2009, 57, 467-467.	0.7	4
42	Training Interdisciplinary Scientists for Systems Biology. <i>Journal of Investigative Medicine</i> , 2009, 57, 471-473.	0.7	3
43	Strategies for Innovation and Interdisciplinary Translational Research. <i>Journal of Investigative Medicine</i> , 2009, 57, 477-481.	0.7	2
44	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
45	<i>Halobacterium salinarum</i> 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
46	Model-based deconvolution of genome-wide DNA binding. <i>Bioinformatics</i> , 2008, 24, 396-403.	1.8	44
47	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
48	A Predictive Model for Transcriptional Control of Physiology in a Free Living Cell. <i>Cell</i> , 2007, 131, 1354-1365.	13.5	284
49	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
50	Membrane-protein stability in a phospholipid-based crystallization medium. <i>Journal of Structural Biology</i> , 2006, 154, 223-231.	1.3	15
51	A systems view of haloarchaeal strategies to withstand stress from transition metals. <i>Genome Research</i> , 2006, 16, 841-854.	2.4	101
52	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
53	Energy transduction in transmembrane ion pumps. <i>Trends in Biochemical Sciences</i> , 2004, 29, 445-451.	3.7	13
54	Specificity of Anion Binding in the Substrate Pocket of Bacteriorhodopsin. <i>Biochemistry</i> , 2004, 43, 4934-4943.	1.2	12

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55	Crystal structures of bR(D85S) favor a model of bacteriorhodopsin as a hydroxyl-ion pump. FEBS Letters, 2004, 564, 301-306.	1.3	24
56	Systems Biology Experimental Design - Considerations for Building Predictive Gene Regulatory Network Models for Prokaryotic Systems. Current Genomics, 2004, 5, 527-544.	0.7	18
57	Crystal Structure of the Bromide-Bound D85S Mutant of Bacteriorhodopsin: Principles of Ion Pumping. Biophysical Journal, 2003, 85, 451-458.	0.2	29
58	Protein Dynamics of Bacteriorhodopsin probed by Photon Echo and Transient Absorption Spectroscopy. Springer Series in Chemical Physics, 2003, , 646-648.	0.2	0
59	Ultrafast Protein Dynamics of Bacteriorhodopsin Probed by Photon Echo and Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 6067-6080.	1.2	94
60	Crystallization of membrane proteins from media composed of connected-bilayer gels. Biopolymers, 2002, 66, 300-316.	1.2	9
61	Crystal structure of the D85S mutant of bacteriorhodopsin: model of an O-like photocycle intermediate. Journal of Molecular Biology, 2001, 313, 615-628.	2.0	94
62	Structure of an Early Intermediate in the M-State Phase of the Bacteriorhodopsin Photocycle. Biophysical Journal, 2001, 81, 3442-3455.	0.2	114
63	Characterization of Conditions Required for X-Ray Diffraction Experiments with Protein Microcrystals. Biophysical Journal, 2000, 78, 3178-3185.	0.2	32
64	Improved stearate phenotype in transgenic canola expressing a modified acyl-acyl carrier protein thioesterase. Nature Biotechnology, 1999, 17, 593-597.	9.4	82
65	Molecular dissection of the plant acyl-acyl carrier protein thioesterases. Lipid - Fett, 1998, 100, 167-172.	0.6	21