

# Andrei Osterman

## List of Publications by Year in descending order

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30  
papers

6,663  
citations

218677

26  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

9838  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Subsystems Approach to Genome Annotation and its Use in the Project to Annotate 1000 Genomes. <i>Nucleic Acids Research</i> , 2005, 33, 5691-5702.	14.5	1,806
2	Protein Tyrosine Phosphatases in the Human Genome. <i>Cell</i> , 2004, 117, 699-711.	28.9	1,697
3	Missing genes in metabolic pathways: a comparative genomics approach. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 238-251.	6.1	379
4	Experimental and Computational Assessment of Conditionally Essential Genes in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 8259-8271.	2.2	237
5	The ERGOTM genome analysis and discovery system. <i>Nucleic Acids Research</i> , 2003, 31, 164-171.	14.5	207
6	Complete Reconstitution of the Human Coenzyme A Biosynthetic Pathway via Comparative Genomics. <i>Journal of Biological Chemistry</i> , 2002, 277, 21431-21439.	3.4	193
7	NAD Biosynthesis. <i>Chemistry and Biology</i> , 2003, 10, 1195-1204.	6.0	188
8	Three-Dimensional Structural View of the Central Metabolic Network of <i>Thermotoga maritima</i> . <i>Science</i> , 2009, 325, 1544-1549.	12.6	176
9	Whole proteome analysis of post-translational modifications: Applications of mass-spectrometry for proteogenomic annotation. <i>Genome Research</i> , 2007, 17, 1362-1377.	5.5	175
10	Structure and Lytic Activity of a <i>Bacillus anthracis</i> Prophage Endolysin. <i>Journal of Biological Chemistry</i> , 2005, 280, 35433-35439.	3.4	152
11	Constraint-Based Model of <i>Shewanella oneidensis</i> MR-1 Metabolism: A Tool for Data Analysis and Hypothesis Generation. <i>PLoS Computational Biology</i> , 2010, 6, e1000822.	3.2	124
12	Role of Net Charge on Catalytic Domain and Influence of Cell Wall Binding Domain on Bactericidal Activity, Specificity, and Host Range of Phage Lysins. <i>Journal of Biological Chemistry</i> , 2011, 286, 34391-34403.	3.4	122
13	The biosynthesis of nicotinamide adenine dinucleotides in bacteria. <i>Vitamins and Hormones</i> , 2001, 61, 103-119.	1.7	121
14	Aerobic tryptophan degradation pathway in bacteria: novel kynurenine formamidase. <i>FEMS Microbiology Letters</i> , 2003, 227, 219-227.	1.8	118
15	Essential genes on metabolic maps. <i>Current Opinion in Biotechnology</i> , 2006, 17, 448-456.	6.6	106
16	Central carbon metabolism in the progression of mammary carcinoma. <i>Breast Cancer Research and Treatment</i> , 2008, 110, 297-307.	2.5	103
17	The National Microbial Pathogen Database Resource (NMPDR): a genomics platform based on subsystem annotation. <i>Nucleic Acids Research</i> , 2007, 35, D347-D353.	14.5	87
18	Structural Basis for the Catalysis and Substrate Specificity of Homoserine Kinase. <i>Biochemistry</i> , 2001, 40, 10810-10818.	2.5	81

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19	Archaeal Shikimate Kinase, a New Member of the GHMP-Kinase Family. <i>Journal of Bacteriology</i> , 2001, 183, 292-300.	2.2	81
20	Formation of Functional Cross-Species Heterodimers of Ornithine Decarboxylase. <i>Biochemistry</i> , 1994, 33, 13662-13667.	2.5	79
21	Genome-Scale Modeling of Light-Driven Reductant Partitioning and Carbon Fluxes in Diazotrophic Unicellular Cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>PLoS Computational Biology</i> , 2012, 8, e1002460.	3.2	78
22	Crystal Structures of <i>E. coli</i> Nicotinate Mononucleotide Adenylyltransferase and Its Complex with Deamido-NAD. <i>Structure</i> , 2002, 10, 69-79.	3.3	67
23	Automatic detection of subsystem/pathway variants in genome analysis. <i>Bioinformatics</i> , 2005, 21, i478-i486.	4.1	59
24	Low-Molecular-Weight Protein Tyrosine Phosphatases of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2005, 187, 4945-4956.	2.2	51
25	The FGGY Carbohydrate Kinase Family: Insights into the Evolution of Functional Specificities. <i>PLoS Computational Biology</i> , 2011, 7, e1002318.	3.2	48
26	Genomics-driven Reconstruction of <i>Acinetobacter</i> NAD Metabolism. <i>Journal of Biological Chemistry</i> , 2010, 285, 39490-39499.	3.4	36
27	COMPARATIVE METABOLOMICS OF BREAST CANCER. , 2006, , .		27
28	Comparative metabolomics of breast cancer. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2007, , 181-92.	0.7	25
29	A hidden metabolic pathway exposed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5637-5638.	7.1	21
30	Biogenesis and Homeostasis of Nicotinamide Adenine Dinucleotide Cofactor. <i>EcoSal Plus</i> , 2009, 3, .	5.4	19