

Andrei Osterman

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | The FGGY Carbohydrate Kinase Family: Insights into the Evolution of Functional Specificities. <i>PLoS Computational Biology</i> , 2011, 7, e1002318. | 3.2 | 48 |
| 4 | Genomics-driven Reconstruction of <i>Acinetobacter</i> NAD Metabolism. <i>Journal of Biological Chemistry</i> , 2010, 285, 39490-39499. | 3.4 | 36 |
| 5 | 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 |
| 6 | Three-Dimensional Structural View of the Central Metabolic Network of <i>Thermotoga maritima</i> . <i>Science</i> , 2009, 325, 1544-1549. | 12.6 | 176 |
| 7 | Biogenesis and Homeostasis of Nicotinamide Adenine Dinucleotide Cofactor. <i>EcoSal Plus</i> , 2009, 3, . | 5.4 | 19 |
| 8 | Central carbon metabolism in the progression of mammary carcinoma. <i>Breast Cancer Research and Treatment</i> , 2008, 110, 297-307. | 2.5 | 103 |
| 9 | 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 |
| 10 | 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 |
| 11 | Comparative metabolomics of breast cancer. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2007, , 181-92. | 0.7 | 25 |
| 12 | Essential genes on metabolic maps. <i>Current Opinion in Biotechnology</i> , 2006, 17, 448-456. | 6.6 | 106 |
| 13 | 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 |
| 14 | 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 |
| 15 | COMPARATIVE METABOLOMICS OF BREAST CANCER. , 2006, , . | | 27 |
| 16 | Automatic detection of subsystem/pathway variants in genome analysis. <i>Bioinformatics</i> , 2005, 21, i478-i486. | 4.1 | 59 |
| 17 | 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 |
| 18 | Low-Molecular-Weight Protein Tyrosine Phosphatases of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2005, 187, 4945-4956. | 2.2 | 51 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Protein Tyrosine Phosphatases in the Human Genome. <i>Cell</i> , 2004, 117, 699-711. | 28.9 | 1,697 |
| 21 | NAD Biosynthesis. <i>Chemistry and Biology</i> , 2003, 10, 1195-1204. | 6.0 | 188 |
| 22 | Aerobic tryptophan degradation pathway in bacteria: novel kynurenine formamidase. <i>FEMS Microbiology Letters</i> , 2003, 227, 219-227. | 1.8 | 118 |
| 23 | Missing genes in metabolic pathways: a comparative genomics approach. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 238-251. | 6.1 | 379 |
| 24 | The ERGOTM genome analysis and discovery system. <i>Nucleic Acids Research</i> , 2003, 31, 164-171. | 14.5 | 207 |
| 25 | 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 |
| 26 | Crystal Structures of E. coli Nicotinate Mononucleotide Adenylyltransferase and Its Complex with Deamido-NAD. <i>Structure</i> , 2002, 10, 69-79. | 3.3 | 67 |
| 27 | The biosynthesis of nicotinamide adenine dinucleotides in bacteria. <i>Vitamins and Hormones</i> , 2001, 61, 103-119. | 1.7 | 121 |
| 28 | Structural Basis for the Catalysis and Substrate Specificity of Homoserine Kinase. <i>Biochemistry</i> , 2001, 40, 10810-10818. | 2.5 | 81 |
| 29 | Archaeal Shikimate Kinase, a New Member of the GHMP-Kinase Family. <i>Journal of Bacteriology</i> , 2001, 183, 292-300. | 2.2 | 81 |
| 30 | Formation of Functional Cross-Species Heterodimers of Ornithine Decarboxylase. <i>Biochemistry</i> , 1994, 33, 13662-13667. | 2.5 | 79 |