

# Weiwen Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133  
papers

4,441  
citations

37  
h-index

61  
g-index

146  
ext. papers

5,459  
ext. citations

5.8  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
133	Engineering a Xylose-Utilizing UTEX 2973 Chassis for 3-Hydroxypropionic Acid Biosynthesis under Photomixotrophic Conditions.. <i>ACS Synthetic Biology</i> , <b>2022</b> ,	5.7	2
132	Rewiring the Metabolic Network to Increase Docosahexaenoic Acid Productivity in by Fermentation Supernatant-Based Adaptive Laboratory Evolution.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 824189	5.7	3
131	Challenges and recent progress in the governance of biosecurity risks in the era of synthetic biology. <i>Journal of Biosafety and Biosecurity</i> , <b>2022</b> , 4, 59-67	1.4	1
130	Metabolic Analysis of Mutants With High DHA Content Achieved With ARTP Mutagenesis Combined With Iodoacetic Acid and Dehydroepiandrosterone Screening. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 738052	5.8	1
129	Engineering a Central Carbon Metabolism Pathway to Increase the Intracellular Acetyl-CoA Pool in sp. PCC 6803 Grown under Photomixotrophic Conditions. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 836-846	5.7	6
128	A simple, switchable pili-labelling method by plasmid-based replacement of pilin. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 2692-2703	5.2	
127	Salt-Tolerant UTEX 2973 Obtained Engineering of Heterologous Synthesis of Compatible Solute Glucosylglycerol. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 650217	5.7	3
126	An injectable hydrogel co-loading with cyanobacteria and upconversion nanoparticles for enhanced photodynamic tumor therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 201, 111640	6	7
125	A transporter Slr1512 involved in bicarbonate and pH-dependent acclimation mechanism to high light stress in <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2021</b> , 1862, 148336	4.6	4
124	Deciphering and engineering photosynthetic cyanobacteria for heavy metal bioremediation. <i>Science of the Total Environment</i> , <b>2021</b> , 761, 144111	10.2	10
123	Designing and Constructing Artificial Small RNAs for Gene Regulation and Carbon Flux Redirection in Photosynthetic Cyanobacteria. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2290, 229-252	1.4	3
122	Deciphering and engineering high-light tolerant cyanobacteria for efficient photosynthetic cell factories. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 30, 82-91	3.2	1
121	Development of a -Acetylneuraminic Acid-Based Sensing and Responding Switch for Orthogonal Gene Regulation in Cyanobacterial Strains. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 1920-1930	5.7	2
120	NIR light-responsive bacteria with live bio-glue coatings for precise colonization in the gut. <i>Cell Reports</i> , <b>2021</b> , 36, 109690	10.6	4
119	Bioethics in : forms, effects, and unsettled issues. <i>Journal of Law and the Biosciences</i> , <b>2021</b> , 8, lsab019	4.1	1
118	Construction and analysis of an artificial consortium based on the fast-growing cyanobacterium UTEX 2973 to produce the platform chemical 3-hydroxypropionic acid from CO. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 82	7.8	14
117	Engineering salt tolerance of photosynthetic cyanobacteria for seawater utilization. <i>Biotechnology Advances</i> , <b>2020</b> , 43, 107578	17.8	15

116	Cyanobacteria-Based Bio-Oxygen Pump Promoting Hypoxia-Resistant Photodynamic Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 237	5.8	12
115	Improved Salt Tolerance and Metabolomics Analysis of UTEX 2973 by Overexpressing Mrp Antiporters. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 500	5.8	14
114	Cellular engineering strategies toward sustainable omega-3 long chain polyunsaturated fatty acids production: State of the art and perspectives. <i>Biotechnology Advances</i> , <b>2020</b> , 40, 107497	17.8	18
113	Light-Driven Biosynthesis of -Inositol Directly From CO in sp. PCC 6803. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 566117	5.7	3
112	Tailoring cyanobacteria as a new platform for highly efficient synthesis of astaxanthin. <i>Metabolic Engineering</i> , <b>2020</b> , 61, 275-287	9.7	20
111	Identification and metabolomic analysis of a starch-deficient <i>Cryptocodium cohnii</i> mutant reveals multiple mechanisms relevant to enhanced growth and lipid accumulation. <i>Algal Research</i> , <b>2020</b> , 50, 102001	5	4
110	Repeated fed-batch strategy and metabolomic analysis to achieve high docosahexaenoic acid productivity in <i>Cryptocodium cohnii</i> . <i>Microbial Cell Factories</i> , <b>2020</b> , 19, 91	6.4	7
109	Regulatory Diversity and Functional Analysis of Two-Component Systems in <i>Cyanobacterium</i> sp. PCC 6803 by GC-MS Based Metabolomics. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 403	5.7	3
108	Omics Analysis for Dinoflagellates Biology Research. <i>Microorganisms</i> , <b>2019</b> , 7,	4.9	8
107	Development of a New Biocontainment Strategy in Model <i>Cyanobacterium</i> Strains. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 2576-2584	5.7	9
106	Metabolic engineering to enhance biosynthesis of both docosahexaenoic acid and odd-chain fatty acids in sp. S31. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 141	7.8	39
105	Synthetic biology: Recent progress, biosafety and biosecurity concerns, and possible solutions. <i>Journal of Biosafety and Biosecurity</i> , <b>2019</b> , 1, 22-30	1.4	42
104	Biosafety and biosecurity in the era of synthetic biology: Meeting the challenges in China and the U.S.. <i>Journal of Biosafety and Biosecurity</i> , <b>2019</b> , 1, 73-74	1.4	3
103	Rewiring metabolic network by chemical modulator based laboratory evolution doubles lipid production in <i>Cryptocodium cohnii</i> . <i>Metabolic Engineering</i> , <b>2019</b> , 51, 88-98	9.7	37
102	Toolboxes for cyanobacteria: Recent advances and future direction. <i>Biotechnology Advances</i> , <b>2018</b> , 36, 1293-1307	17.8	65
101	Screening of chemical modulators for lipid accumulation in <i>Schizochytrium</i> sp. S31. <i>Bioresource Technology</i> , <b>2018</b> , 260, 124-129	11	13
100	C Metabolic Flux Analysis of Enhanced Lipid Accumulation Modulated by Ethanolamine in. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 956	5.7	15
99	Genetic Engineering of to Increase Growth and Lipid Accumulation. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 492	5.7	16

98	Regulation Mechanism Mediated by -Encoded sRNA Nc117 in Short Chain Alcohols Tolerance in sp. PCC 6803. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 863	5.7	4
97	Re-direction of carbon flux to key precursor malonyl-CoA via artificial small RNAs in photosynthetic sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 26	7.8	38
96	Development and optimization of genetic toolboxes for a fast-growing cyanobacterium <i>Synechococcus elongatus</i> UTEX 2973. <i>Metabolic Engineering</i> , <b>2018</b> , 48, 163-174	9.7	52
95	Transporters Related to Stress Responses and Their Potential Application in <i>Synechocystis</i> sp. PCC 6803. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1080, 27-53	3.6	
94	Discovery and Application of Stress-Responsive sRNAs in Cyanobacteria. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1080, 55-74	3.6	
93	Direct Photosynthetic Production of Plastic Building Block Chemicals from CO. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1080, 215-238	3.6	2
92	Membrane-Located Expression of Thioesterase From Enhances Free Fatty Acid Production With Decreased Toxicity in sp. PCC6803. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2842	5.7	3
91	Nitrogen Feeding Strategies and Metabolomic Analysis To Alleviate High-Nitrogen Inhibition on Docosahexaenoic Acid Production in <i>Cryptocodinium cohnii</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 10640-10650	5.7	10
90	Adaptive laboratory evolution of cadmium tolerance in sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 205	7.8	20
89	Metabolomic analysis and lipid accumulation in a glucose tolerant <i>Cryptocodinium cohnii</i> strain obtained by adaptive laboratory evolution. <i>Bioresource Technology</i> , <b>2017</b> , 235, 87-95	11	36
88	A novel small RNA CoaR regulates coenzyme A biosynthesis and tolerance of sp. PCC6803 to 1-butanol possibly via promoter-directed transcriptional silencing. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 42	7.8	17
87	Co-overexpression of response regulator genes slr1037 and sll0039 improves tolerance of <i>Synechocystis</i> sp. PCC 6803 to 1-butanol. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1476-1483	11	23
86	Crosstalk of two-component signal transduction systems in regulating central carbohydrate and energy metabolism during autotrophic and photomixotrophic growth of <i>Synechocystis</i> sp. PCC 6803. <i>Integrative Biology (United Kingdom)</i> , <b>2017</b> , 9, 485-496	3.7	4
85	Systematic and functional identification of small non-coding RNAs associated with exogenous biofuel stress in cyanobacterium sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 57	7.8	19
84	Versatility of hydrocarbon production in cyanobacteria. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 905-919	5.7	23
83	De novo transcriptomic and metabolomic analysis of docosahexaenoic acid (DHA)-producing <i>Cryptocodinium cohnii</i> during fed-batch fermentation. <i>Algal Research</i> , <b>2017</b> , 26, 380-391	5	29
82	Screening and transcriptomic analysis of <i>Cryptocodinium cohnii</i> mutants with high growth and lipid content using the acetyl-CoA carboxylase inhibitor sethoxydim. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 6179-6191	5.7	22
81	Quantitative Proteomics Reveals Potential Crosstalk between a Small RNA CoaR and a Two-Component Regulator Slr1037 in <i>Synechocystis</i> sp. PCC6803. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 2954-2963	5.6	8

80	Luminescence materials for pH and oxygen sensing in microbial cells - structures, optical properties, and biological applications. <i>Critical Reviews in Biotechnology</i> , <b>2017</b> , 37, 723-738	9.4	10
79	Functional Diversity of Transcriptional Regulators in the Cyanobacterium sp. PCC 6803. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 280	5.7	5
78	Identification of a New Target of the Response Regulator Sll0649 Involving Cadmium Tolerance in sp. PCC 6803. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1582	5.7	9
77	Tools for Genomic and Transcriptomic Analysis of Microbes at Single-Cell Level. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1831	5.7	24
76	From Genes to Ecosystems in Microbiology: Modeling Approaches and the Importance of Individuality. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2299	5.7	24
75	Integrated Analysis of Transcriptomic and Proteomic Datasets Reveals Information on Protein Expressivity and Factors Affecting Translational Efficiency. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1375, 123-36	1.4	8
74	Slr1909, a Novel two-component Response Regulator Involved in Acid Tolerance in <i>Synechocystis</i> sp. PCC 6803 <b>2016</b> , 935-943		
73	Cross-species Transcriptional Network Analysis Reveals Conservation and Variation in Response to Metal Stress in Cyanobacteria <b>2016</b> , 1165-1170		
72	Transcriptional regulator PrqR plays a negative role in glucose metabolism and oxidative stress acclimation in <i>Synechocystis</i> sp. PCC 6803. <i>Scientific Reports</i> , <b>2016</b> , 6, 32507	4.9	8
71	Roles of two-component system AfsQ1/Q2 in regulating biosynthesis of the yellow-pigmented coelmycin P2 in <i>Streptomyces coelicolor</i> . <i>FEMS Microbiology Letters</i> , <b>2016</b> , 363,	2.9	14
70	Metabolic dynamics of <i>Desulfovibrio vulgaris</i> biofilm grown on a steel surface. <i>Biofouling</i> , <b>2016</b> , 32, 725-36		14
69	Cyanobacterial chassis engineering for enhancing production of biofuels and chemicals. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 3401-13	5.7	60
68	Biosynthesis of platform chemical 3-hydroxypropionic acid (3-HP) directly from CO <sub>2</sub> in cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , <b>2016</b> , 34, 60-70	9.7	84
67	A Branch Point of <i>Streptomyces</i> Sulfur Amino Acid Metabolism Controls the Production of Albomycin. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 467-77	4.8	17
66	Comparison of Transcriptional Heterogeneity of Eight Genes between Batch <i>Desulfovibrio vulgaris</i> Biofilm and Planktonic Culture at a Single-Cell Level. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 597	5.7	10
65	Proteomic and metabolomic analyses reveal metabolic responses to 3-hydroxypropionic acid synthesized internally in cyanobacterium sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 209	7.8	24
64	A putative magnesium transporter Slr1216 involved in sodium tolerance in cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , <b>2016</b> , 17, 202-210	5	5
63	Fatty acid and metabolomic profiling approaches differentiate heterotrophic and mixotrophic culture conditions in a microalgal food supplement <i>Euglena</i> <i>BMC Biotechnology</i> , <b>2016</b> , 16, 49	3.5	19

62	Microbial production of mammalian melatonin - a promising solution to melatonin industry. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 601-2	5.6	5
61	Elucidating butanol tolerance mediated by a response regulator Sll0039 in <i>Synechocystis</i> sp. PCC 6803 using a metabolomic approach. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 1845-57	5.7	21
60	A global network-based protocol for functional inference of hypothetical proteins in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Microbiological Methods</i> , <b>2015</b> , 116, 44-52	2.8	5
59	Identification and mechanism analysis of chemical modulators enhancing astaxanthin accumulation in <i>Haematococcus pluvialis</i> . <i>Algal Research</i> , <b>2015</b> , 11, 284-293	5	36
58	Chemicals to enhance microalgal growth and accumulation of high-value bioproducts. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 56	5.7	89
57	Identification and metabolomic analysis of chemical modulators for lipid accumulation in <i>Cryptocodium cohnii</i> . <i>Bioresource Technology</i> , <b>2015</b> , 191, 362-8	11	41
56	Premethylation of foreign DNA improves integrative transformation efficiency in <i>Synechocystis</i> sp. strain PCC 6803. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 8500-6	4.8	18
55	RNA-seq based transcriptomic analysis of single bacterial cells. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 1466-76	3.7	56
54	Measuring gene expression in single bacterial cells: recent advances in methods and micro-devices. <i>Critical Reviews in Biotechnology</i> , <b>2015</b> , 35, 448-60	9.4	11
53	Identification of a transporter Slr0982 involved in ethanol tolerance in cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 487	5.7	30
52	Heterologous xylose isomerase pathway and evolutionary engineering improve xylose utilization in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1165	5.7	27
51	Metabolomic analysis reveals functional overlapping of three signal transduction proteins in regulating ethanol tolerance in cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 770-82		22
50	Single-cell analysis reveals gene-expression heterogeneity in syntrophic dual-culture of <i>Desulfovibrio vulgaris</i> with <i>Methanosarcina barkeri</i> . <i>Scientific Reports</i> , <b>2014</b> , 4, 7478	4.9	13
49	Engineering biofuel tolerance in non-native producing microorganisms. <i>Biotechnology Advances</i> , <b>2014</b> , 32, 541-8	17.8	62
48	An orphan two-component response regulator Slr1588 involves salt tolerance by directly regulating synthesis of compatible solutes in photosynthetic <i>Synechocystis</i> sp. PCC 6803. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 1765-74		20
47	Metabolomic analysis of the salt-sensitive mutants reveals changes in amino acid and fatty acid composition important to long-term salt stress in <i>Synechocystis</i> sp. PCC 6803. <i>Functional and Integrative Genomics</i> , <b>2014</b> , 14, 431-40	3.8	29
46	Integrated proteomic and metabolomic characterization of a novel two-component response regulator Slr1909 involved in acid tolerance in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteomics</i> , <b>2014</b> , 109, 76-89	3.9	22
45	Butanol tolerance regulated by a two-component response regulator Slr1037 in photosynthetic <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 89	7.8	28

44	An orphan response regulator Sll0649 involved in cadmium tolerance and metal homeostasis in photosynthetic <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteomics</i> , <b>2014</b> , 103, 87-102	3.9	23
43	Protein Network Signatures Associated with Exogenous Biofuels Treatments in Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2014</b> , 2, 48	5.8	8
42	Synthetic biology applications in industrial microbiology. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 451	5.7	9
41	A transcriptional regulator Sll0794 regulates tolerance to biofuel ethanol in photosynthetic <i>Synechocystis</i> sp. PCC 6803. <i>Molecular and Cellular Proteomics</i> , <b>2014</b> , 13, 3519-32	7.6	27
40	Metabolomic analysis reveals mechanism of antioxidant butylated hydroxyanisole on lipid accumulation in <i>Cryptocodinium cohnii</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 12477-84	5.7	42
39	Metabolomic and network analysis of astaxanthin-producing <i>Haematococcus pluvialis</i> under various stress conditions. <i>Bioresource Technology</i> , <b>2014</b> , 170, 522-529	11	72
38	Metabolomic basis of laboratory evolution of butanol tolerance in photosynthetic <i>Synechocystis</i> sp. PCC 6803. <i>Microbial Cell Factories</i> , <b>2014</b> , 13, 151	6.4	50
37	Integrated OMICS guided engineering of biofuel butanol-tolerance in photosynthetic <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 106	7.8	62
36	Cross-species transcriptional network analysis reveals conservation and variation in response to metal stress in cyanobacteria. <i>BMC Genomics</i> , <b>2013</b> , 14, 112	4.5	26
35	Integrated proteomic and transcriptomic analysis reveals novel genes and regulatory mechanisms involved in salt stress responses in <i>Synechocystis</i> sp. PCC 6803. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 8253-64	5.7	55
34	Global metabolomic and network analysis of <i>Escherichia coli</i> responses to exogenous biofuels. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 5302-12	5.6	44
33	Complementary iTRAQ proteomics and RNA-seq transcriptomics reveal multiple levels of regulation in response to nitrogen starvation in <i>Synechocystis</i> sp. PCC 6803. <i>Molecular BioSystems</i> , <b>2013</b> , 9, 2565-74		58
32	Monitoring the single-cell stress response of the diatom <i>Thalassiosira pseudonana</i> by quantitative real-time reverse transcription-PCR. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 1850-8	4.8	19
31	Quantitative proteomics reveals dynamic responses of <i>Synechocystis</i> sp. PCC 6803 to next-generation biofuel butanol. <i>Journal of Proteomics</i> , <b>2013</b> , 78, 326-45	3.9	85
30	Engineering cyanobacteria for photosynthetic production of 3-hydroxybutyrate directly from CO <sub>2</sub> . <i>Metabolic Engineering</i> , <b>2013</b> , 16, 68-77	9.7	128
29	Systematic characterization of hypothetical proteins in <i>Synechocystis</i> sp. PCC 6803 reveals proteins functionally relevant to stress responses. <i>Gene</i> , <b>2013</b> , 512, 6-15	3.8	25
28	Quantitative iTRAQ LC-MS/MS proteomics reveals metabolic responses to biofuel ethanol in cyanobacterial <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 5286-300	5.6	114
27	Proteomic analysis reveals resistance mechanism against biofuel hexane in <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2012</b> , 5, 68	7.8	67

26	RNA-seq based identification and mutant validation of gene targets related to ethanol resistance in cyanobacterial <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , <b>2012</b> , 5, 89	7.8	62
25	Application of synthetic biology in cyanobacteria and algae. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 344	5.7	128
24	Real-time PCR of single bacterial cells on an array of adhering droplets. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2276-81	7.2	30
23	RT-qPCR based quantitative analysis of gene expression in single bacterial cells. <i>Journal of Microbiological Methods</i> , <b>2011</b> , 85, 221-7	2.8	45
22	Metabolic flexibility of sulfate-reducing bacteria. <i>Frontiers in Microbiology</i> , <b>2011</b> , 2, 81	5.7	194
21	Microbial dynamics in upflow anaerobic sludge blanket (UASB) bioreactor granules in response to short-term changes in substrate feed. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 2418-2427	2.9	27
20	Global transcriptomics analysis of the <i>Desulfovibrio vulgaris</i> change from syntrophic growth with <i>Methanosarcina barkeri</i> to sulfidogenic metabolism. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 2746-2756	2.9	36
19	Integrating multiple Omics Analysis for microbial biology: application and methodologies. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 287-301	2.9	363
18	Statistical application and challenges in global gel-free proteomic analysis by mass spectrometry. <i>Critical Reviews in Biotechnology</i> , <b>2008</b> , 28, 297-307	9.4	16
17	Comparative transcriptome analysis of <i>Desulfovibrio vulgaris</i> grown in planktonic culture and mature biofilm on a steel surface. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 76, 447-57	5.7	26
16	Integrative analysis of transcriptomic and proteomic data: challenges, solutions and applications. <i>Critical Reviews in Biotechnology</i> , <b>2007</b> , 27, 63-75	9.4	178
15	Evolution of the syntrophic interaction between <i>Desulfovibrio vulgaris</i> and <i>Methanosarcina barkeri</i> : Involvement of an ancient horizontal gene transfer. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 352, 48-54	3.4	51
14	Two-component signal transduction systems of <i>Desulfovibrio vulgaris</i> : structural and phylogenetic analysis and deduction of putative cognate pairs. <i>Journal of Molecular Evolution</i> , <b>2006</b> , 62, 473-87	3.1	10
13	Integrated analysis of transcriptomic and proteomic data of <i>Desulfovibrio vulgaris</i> : zero-inflated Poisson regression models to predict abundance of undetected proteins. <i>Bioinformatics</i> , <b>2006</b> , 22, 1641-7	7.2	46
12	Correlation of mRNA expression and protein abundance affected by multiple sequence features related to translational efficiency in <i>Desulfovibrio vulgaris</i> : a quantitative analysis. <i>Genetics</i> , <b>2006</b> , 174, 2229-43	4	151
11	Correlation between mRNA and protein abundance in <i>Desulfovibrio vulgaris</i> : a multiple regression to identify sources of variations. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 339, 603-10	3.4	143
10	Relation between mRNA expression and sequence information in <i>Desulfovibrio vulgaris</i> : combinatorial contributions of upstream regulatory motifs and coding sequence features to variations in mRNA abundance. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 344, 114-21	3.4	7
9	LC-MS/MS based proteomic analysis and functional inference of hypothetical proteins in <i>Desulfovibrio vulgaris</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 349, 1412-9	3.4	14



8	A proteomic view of <i>Desulfovibrio vulgaris</i> metabolism as determined by liquid chromatography coupled with tandem mass spectrometry. <i>Proteomics</i> , <b>2006</b> , 6, 4286-99	4.8	43
7	Global transcriptomic analysis of <i>Desulfovibrio vulgaris</i> on different electron donors. <i>Antonie Van Leeuwenhoek</i> , <b>2006</b> , 89, 221-37	2.1	54
6	Oxidative stress and heat-shock responses in <i>Desulfovibrio vulgaris</i> by genome-wide transcriptomic analysis. <i>Antonie Van Leeuwenhoek</i> , <b>2006</b> , 90, 41-55	2.1	53
5	DNA microarray analysis of anaerobic <i>Methanosarcina barkeri</i> reveals responses to heat shock and air exposure. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2006</b> , 33, 784-90	4.2	26
4	Predicted highly expressed genes in the genomes of <i>Streptomyces coelicolor</i> and <i>Streptomyces avermitilis</i> and the implications for their metabolism. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 2175-2187	2.9	105
3	Distribution and evolution of multiple-step phosphorelay in prokaryotes: lateral domain recruitment involved in the formation of hybrid-type histidine kinases. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 2159-2173	2.9	66
2	Evolution of the PPM-family protein phosphatases in <i>Streptomyces</i> : duplication of catalytic domain and lateral recruitment of additional sensory domains. <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 4189-4197	2.9	33
1	Comparative analysis of eukaryotic-type protein phosphatases in two streptomycete genomes. <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 2247-2256	2.9	17