

Zheng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,674
citations

218677

26
h-index

289244

40
g-index

47
all docs

47
docs citations

47
times ranked

1918
citing authors

#	ARTICLE	IF	CITATIONS
1	Broad-spectrum respiratory tract pathogen identification using resequencing DNA microarrays. <i>Genome Research</i> , 2006, 16, 527-535.	5.5	130
2	A Previously Uncharacterized, Nonphotosynthetic Member of the Chromatiaceae Is the Primary CO ₂ -Fixing Constituent in a Self-Regenerating Biocathode. <i>Applied and Environmental Microbiology</i> , 2015, 81, 699-712.	3.1	89
3	Sequence basis of Barnacle Cement Nanostructure is Defined by Proteins with Silk Homology. <i>Scientific Reports</i> , 2016, 6, 36219.	3.3	79
4	Adaptation of the Black Yeast <i>Wangiella dermatitidis</i> to Ionizing Radiation: Molecular and Cellular Mechanisms. <i>PLoS ONE</i> , 2012, 7, e48674.	2.5	76
5	Identifying Influenza Viruses with Resequencing Microarrays. <i>Emerging Infectious Diseases</i> , 2006, 12, 638-646.	4.3	73
6	Spectroelectrochemical Reverse Engineering Demonstrates That Melanin's Redox and Radical Scavenging Activities Are Linked. <i>Biomacromolecules</i> , 2017, 18, 4084-4098.	5.4	63
7	Oxidase Activity of the Barnacle Adhesive Interface Involves Peroxide-Dependent Catechol Oxidase and Lysyl Oxidase Enzymes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11493-11505.	8.0	61
8	Synthetic Biology Tools for the Fast-Growing Marine Bacterium <i>Vibrio natriegens</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 2069-2079.	3.8	60
9	Detection and Genotyping of <i>Entamoeba histolytica</i> , <i>Entamoeba dispar</i> , <i>Giardia lamblia</i> , and <i>Cryptosporidium parvum</i> by Oligonucleotide Microarray. <i>Journal of Clinical Microbiology</i> , 2004, 42, 3262-3271.	3.9	58
10	Comparative Genomic and Transcriptomic Analysis of <i>Wangiella dermatitidis</i> , A Major Cause of Phaeoophomycosis and a Model Black Yeast Human Pathogen. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 561-578.	1.8	58
11	Testing and Validation of High Density Resequencing Microarray for Broad Range Biothreat Agents Detection. <i>PLoS ONE</i> , 2009, 4, e6569.	2.5	52
12	Automated identification of multiple micro-organisms from resequencing DNA microarrays. <i>Nucleic Acids Research</i> , 2006, 34, 5300-5311.	14.5	50
13	WdChs4p, a Homolog of Chitin Synthase 3 in <i>Saccharomyces cerevisiae</i> , Alone Cannot Support Growth of <i>Wangiella</i> (<i>Exophiala</i>) <i>dermatitidis</i> at the Temperature of Infection. <i>Infection and Immunity</i> , 1999, 67, 6619-6630.	2.2	49
14	Molt-dependent transcriptomic analysis of cement proteins in the barnacle <i>Amphibalanus amphitrite</i> . <i>BMC Genomics</i> , 2015, 16, 859.	2.8	46
15	Melanin Produced by the Fast-Growing Marine Bacterium <i>Vibrio natriegens</i> through Heterologous Biosynthesis: Characterization and Application. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	45
16	Broad Spectrum Respiratory Pathogen Analysis of Throat Swabs from Military Recruits Reveals Interference Between Rhinoviruses and Adenoviruses. <i>Microbial Ecology</i> , 2010, 59, 623-634.	2.8	43
17	Function and Regulation of <i>Vibrio campbellii</i> Proteorhodopsin: Acquired Phototrophy in a Classical Organoheterotroph. <i>PLoS ONE</i> , 2012, 7, e38749.	2.5	42
18	Simultaneous Detection of Four Human Pathogenic Microsporidian Species from Clinical Samples by Oligonucleotide Microarray. <i>Journal of Clinical Microbiology</i> , 2005, 43, 4121-4128.	3.9	41

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19	Allomelanin: A Biopolymer of Intrinsic Microporosity. <i>Journal of the American Chemical Society</i> , 2021, 143, 4005-4016.	13.7	41
20	Indole signalling and (micro)algal auxins decrease the virulence of <i>Vibrio campbellii</i> , a major pathogen of aquatic organisms. <i>Environmental Microbiology</i> , 2017, 19, 1987-2004.	3.8	39
21	Reverse Engineering To Characterize Redox Properties: Revealing Melanin's Redox Activity through Mediated Electrochemical Probing. <i>Chemistry of Materials</i> , 2018, 30, 5814-5826.	6.7	36
22	Universal Detection and Identification of Avian Influenza Virus by Use of Resequencing Microarrays. <i>Journal of Clinical Microbiology</i> , 2009, 47, 988-993.	3.9	34
23	Selenomelanin: An Abiotic Selenium Analogue of Pheomelanin. <i>Journal of the American Chemical Society</i> , 2020, 142, 12802-12810.	13.7	34
24	Application of Broad-Spectrum, Sequence-Based Pathogen Identification in an Urban Population. <i>PLoS ONE</i> , 2007, 2, e419.	2.5	33
25	Resequencing microarray probe design for typing genetically diverse viruses: human rhinoviruses and enteroviruses. <i>BMC Genomics</i> , 2008, 9, 577.	2.8	31
26	Synthetic Porous Melanin. <i>Journal of the American Chemical Society</i> , 2021, 143, 3094-3103.	13.7	30
27	Draft Genome Sequence of the Fast-Growing Marine Bacterium <i>Vibrio natriegens</i> Strain ATCC 14048. <i>Genome Announcements</i> , 2013, 1, .	0.8	28
28	Metaproteomic evidence of changes in protein expression following a change in electrode potential in a robust biocathode microbiome. <i>Proteomics</i> , 2015, 15, 3486-3496.	2.2	28
29	Development of a Genetic System for <i>Marinobacter atlanticus</i> CP1 (sp. nov.), a Wax Ester Producing Strain Isolated From an Autotrophic Biocathode. <i>Frontiers in Microbiology</i> , 2018, 9, 3176.	3.5	26
30	CRISPR-based enrichment strategies for targeted sequencing. <i>Biotechnology Advances</i> , 2021, 46, 107672.	11.7	23
31	<i>Vibrio campbellii</i> hmgA-mediated pyomelanization impairs quorum sensing, virulence, and cellular fitness. <i>Frontiers in Microbiology</i> , 2013, 4, 379.	3.5	21
32	The response of the melanized yeast <i>Exophiala dermatitidis</i> to gamma radiation exposure. <i>Environmental Microbiology</i> , 2020, 22, 1310-1326.	3.8	17
33	Transcriptomic analysis reveals the relationship of melanization to growth and resistance to gamma radiation in <i>Cryptococcus neoformans</i> . <i>Environmental Microbiology</i> , 2019, 21, 2613-2628.	3.8	15
34	Systematic analysis, identification, and use of CRISPR/Cas13a-associated crRNAs for sensitive and specific detection of the <i>lcrV</i> gene of <i>Yersinia pestis</i> . <i>Diagnostic Microbiology and Infectious Disease</i> , 2021, 99, 115275.	1.8	15
35	Identification of non-coding RNAs in environmental vibrios. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2452-2458.	1.8	14
36	Complete Genome Sequence of <i>Marinobacter</i> sp. CP1, Isolated from a Self-Regenerating Biocathode Biofilm. <i>Genome Announcements</i> , 2015, 3, .	0.8	14

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37	A novel <i>Vibrio</i> beta-glucosidase (LamN) that hydrolyzes the algal storage polysaccharide laminarin. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv087.	2.7	14
38	Transcriptomic and genomic changes associated with radioadaptation in <i>Exophiala dermatitidis</i> . <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 196-205.	4.1	13
39	Complete Genome Sequence of the Bioluminescent Marine Bacterium <i>Vibrio harveyi</i> ATCC 33843 (392) Tj ETQq1	1.0784314	11
40	Phenotypic Characterization and Comparative Genomics of the Melanin-Producing Yeast <i>Exophiala lecanii-corni</i> Reveals a Distinct Stress Tolerance Profile and Reduced Ribosomal Genetic Content. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 1078.	3.5	9
41	Adaptive evolution of a melanized fungus reveals robust augmentation of radiation resistance by abrogating non-homologous end-joining. <i>Environmental Microbiology</i> , 2021, 23, 3627-3645.	3.8	8
42	Genome Sequence of the Black Yeast <i>Exophiala lecanii-corni</i> . <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	7
43	Proteomics Reveals Distinct Changes Associated with Increased Gamma Radiation Resistance in the Black Yeast <i>Exophiala dermatitidis</i> . <i>Genes</i> , 2020, 11, 1128.	2.4	7
44	Finished Genome Sequence of the Highly Multidrug-Resistant Human Urine Isolate <i>Citrobacter freundii</i> Strain SL151. <i>Genome Announcements</i> , 2016, 4, .	0.8	6
45	The Transcriptomic and Phenotypic Response of the Melanized Yeast <i>Exophiala dermatitidis</i> to Ionizing Particle Exposure. <i>Frontiers in Microbiology</i> , 2020, 11, 609996.	3.5	3
46	Complete Genome Sequence of <i>Labrenzia</i> sp. Strain CP4, Isolated from a Self-Regenerating Biocathode Biofilm. <i>Genome Announcements</i> , 2016, 4, .	0.8	1