

Zhichao Zhou

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.

83

papers

1,636

citations

21

h-index

36

g-index

88

ext. papers

2,379

ext. citations

6.3

avg, IF

5.29

L-index

#	Paper	IF	Citations
83	Genome-resolved evidence for functionally redundant communities and novel nitrogen fixers in the deyin-1 hydrothermal field, Mid-Atlantic Ridge.. <i>Microbiome</i> , 2022 , 10, 8	16.6	0
82	Purinergic activation in response to hemodynamic force directs heart valve development.. <i>Purinergic Signalling</i> , 2022 , 1	3.8	
81	METABOLIC: high-throughput profiling of microbial genomes for functional traits, metabolism, biogeochemistry, and community-scale functional networks.. <i>Microbiome</i> , 2022 , 10, 33	16.6	10
80	Erythrocytes Induce Vascular Dysfunction in COVID-19.. <i>JACC Basic To Translational Science</i> , 2022 ,	8.7	5
79	High-throughput sequencing reveals the main drivers of niche-differentiation of bacterial community in the surface sediments of the northern South China sea. <i>Marine Environmental Research</i> , 2022 , 105641	3.3	0
78	Infective endocarditis - A review of current therapy and future challenges. <i>Hellenic Journal of Cardiology</i> , 2021 , 62, 190-200	2.1	4
77	Adenosine and adenosine receptor-mediated action in coronary microcirculation. <i>Basic Research in Cardiology</i> , 2021 , 116, 22	11.8	13
76	P2X7 Receptor-Mediated Inflammation in Cardiovascular Disease. <i>Frontiers in Pharmacology</i> , 2021 , 12, 654425	5.6	6
75	Anti-coagulation for COVID-19 treatment: both anti-thrombotic and anti-inflammatory?. <i>Journal of Thrombosis and Thrombolysis</i> , 2021 , 51, 226-231	5.1	14
74	Subgroup level differences of physiological activities in marine Lokiarchaeota. <i>ISME Journal</i> , 2021 , 15, 848-861	11.9	8
73	Simultaneous occurrence and analysis of both anammox and n-damo bacteria in five full-scale wastewater treatment plants. <i>International Biodeterioration and Biodegradation</i> , 2021 , 156, 105112	4.8	9
72	Ticagrelor: a cardiometabolic drug targeting erythrocyte-mediated purinergic signaling?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H90-H94	5.2	5
71	Purinergic interplay between erythrocytes and platelets in diabetes-associated vascular dysfunction. <i>Purinergic Signalling</i> , 2021 , 1	3.8	2
70	Increasing relative abundance of non-cyanobacterial photosynthetic organisms drives ecosystem multifunctionality during the succession of biological soil crusts. <i>Geoderma</i> , 2021 , 395, 115052	6.7	2
69	MicroRNA: A mediator of diet-induced cardiovascular protection. <i>Current Opinion in Pharmacology</i> , 2021 , 60, 183-192	5.1	2
68	Therapeutic Potential of Sunitinib in Ameliorating Endothelial Dysfunction in Type 2 Diabetic Rats.. <i>Pharmacology</i> , 2021 , 1-7	2.3	
67	Genome diversification in globally distributed novel marine Proteobacteria is linked to environmental adaptation. <i>ISME Journal</i> , 2020 , 14, 2060-2077	11.9	38

66	Diverse Asgard archaea including the novel phylum Gerdarchaeota participate in organic matter degradation. <i>Science China Life Sciences</i> , 2020 , 63, 886-897	8.5	32
65	Genomic and transcriptomic evidence of light-sensing, porphyrin biosynthesis, Calvin-Benson-Bassham cycle, and urea production in Bathyarchaeota. <i>Microbiome</i> , 2020 , 8, 43	16.6	15
64	Alteration of purinergic signaling in diabetes: Focus on vascular function. <i>Journal of Molecular and Cellular Cardiology</i> , 2020 , 140, 1-9	5.8	19
63	Genome- and Community-Level Interaction Insights into Carbon Utilization and Element Cycling Functions of in Hydrothermal Sediment. <i>MSystems</i> , 2020 , 5,	7.6	33
62	Soil microbiomes mediate degradation of vinyl ester-based polymer composites. <i>Communications Materials</i> , 2020 , 1,	6	9
61	Patterns and processes of free-living and particle-associated bacterioplankton and archaeoplankton communities in a subtropical river-bay system in South China. <i>Limnology and Oceanography</i> , 2020 , 65, S161	4.8	17
60	Enrichment differentiation of human induced pluripotent stem cells into sinoatrial node-like cells by combined modulation of BMP, FGF, and RA signaling pathways. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 284	8.3	6
59	Erythrocytes Induce Endothelial Injury in Type 2 Diabetes Through Alteration of Vascular Purinergic Signaling. <i>Frontiers in Pharmacology</i> , 2020 , 11, 603226	5.6	3
58	Red Blood Cell Peroxynitrite Causes Endothelial Dysfunction in Type 2 Diabetes Mellitus via Arginase. <i>Cells</i> , 2020 , 9,	7.9	16
57	Purinergic Dysfunction in Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , 2020 , 9, e017404	6	6
56	A 15-Year Study on UpA in Cardiovascular Disease. <i>Frontiers in Pharmacology</i> , 2020 , 11, 1200	5.6	1
55	Gammaproteobacteria mediating utilization of methyl-, sulfur- and petroleum organic compounds in deep ocean hydrothermal plumes. <i>ISME Journal</i> , 2020 , 14, 3136-3148	11.9	9
54	More purinergic receptors deserve attention as therapeutic targets for the treatment of cardiovascular disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H723-H729 ⁶	5.2	6
53	Complex microbial nitrogen-cycling networks in three distinct anammox-inoculated wastewater treatment systems. <i>Water Research</i> , 2020 , 168, 115142	12.5	46
52	The Effect of Glycemic Control on Endothelial and Cardiac Dysfunction Induced by Red Blood Cells in Type 2 Diabetes. <i>Frontiers in Pharmacology</i> , 2019 , 10, 861	5.6	14
51	Red blood cell dysfunction: a new player in cardiovascular disease. <i>Cardiovascular Research</i> , 2019 , 115, 1596-1605	9.9	48
50	The newly proposed TACK and DPANN archaea detected in the production waters from a high-temperature petroleum reservoir. <i>International Biodeterioration and Biodegradation</i> , 2019 , 143, 104729	4.8	8
49	miR-499 released during myocardial infarction causes endothelial injury by targeting α -nAChR. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 6085-6097	5.6	12

48	Activation of adenosine A but not A receptors is involved in uridine adenosine tetraphosphate-induced porcine coronary smooth muscle relaxation. <i>Journal of Pharmacological Sciences</i> , 2019 , 141, 64-69	3.7	5
47	Identifying the core bacterial microbiome of hydrocarbon degradation and a shift of dominant methanogenesis pathways in the oil and aqueous phases of petroleum reservoirs of different temperatures from China. <i>Biogeosciences</i> , 2019 , 16, 4229-4241	4.6	2
46	Uridine adenosine tetraphosphate and purinergic signaling in cardiovascular system: An update. <i>Pharmacological Research</i> , 2019 , 141, 32-45	10.2	19
45	Diazotrophic microbial community and abundance in acidic subtropical natural and re-vegetated forest soils revealed by high-throughput sequencing of nifH gene. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 995-1005	5.7	23
44	Vertical Distribution of Bathyarchaeotal Communities in Mangrove Wetlands Suggests Distinct Niche Preference of Bathyarchaeota Subgroup 6. <i>Microbial Ecology</i> , 2019 , 77, 417-428	4.4	29
43	Genomic and transcriptomic insights into the ecology and metabolism of benthic archaeal cosmopolitan, Thermopfundales (MBG-D archaea). <i>ISME Journal</i> , 2019 , 13, 885-901	11.9	57
42	Two or three domains: a new view of tree of life in the genomics era. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3049-3058	5.7	13
41	Comparative genomic inference suggests mixotrophic lifestyle for Thorarchaeota. <i>ISME Journal</i> , 2018 , 12, 1021-1031	11.9	59
40	Erythrocytes From Patients With Type 2 Diabetes Induce Endothelial Dysfunction Via Arginase I. <i>Journal of the American College of Cardiology</i> , 2018 , 72, 769-780	15.1	69
39	Uridine Adenosine Tetraphosphate-Induced Coronary Relaxation Is Blunted in Swine With Pressure Overload: A Role for Vasoconstrictor Prostanoids. <i>Frontiers in Pharmacology</i> , 2018 , 9, 255	5.6	5
38	Insights into the ecology, evolution, and metabolism of the widespread Woese archaeotal lineages. <i>Microbiome</i> , 2018 , 6, 102	16.6	98
37	Red Blood Cells in Type 2 Diabetes Impair Cardiac Post-Ischemic Recovery Through an Arginase-Dependent Modulation of Nitric Oxide Synthase and Reactive Oxygen Species. <i>JACC Basic To Translational Science</i> , 2018 , 3, 450-463	8.7	29
36	Role of A1 and A2B Adenosine receptors in Angiotensin II dependent hypertension in mice.. <i>FASEB Journal</i> , 2018 , 32, 715.2	0.9	1
35	Altered Purinergic Receptor Sensitivity in Type 2 Diabetes-Associated Endothelial Dysfunction and Upstream-Mediated Vascular Contraction. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	11
34	Practical applications of PCR primers in detection of anammox bacteria effectively from different types of samples. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 5859-5871	5.7	16
33	Bathyarchaeota: globally distributed metabolic generalists in anoxic environments. <i>FEMS Microbiology Reviews</i> , 2018 , 42, 639-655	15.1	106
32	Successive transitory distribution of Thaumarchaeota and partitioned distribution of Bathyarchaeota from the Pearl River estuary to the northern South China Sea. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8035-8048	5.7	13
31	New PCR primers targeting hydrazine synthase and cytochrome c biogenesis proteins in anammox bacteria. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 1267-1287	5.7	14

30	Altered purinergic signaling in uridine adenosine tetraphosphate-induced coronary relaxation in swine with metabolic derangement. <i>Purinergic Signalling</i> , 2017 , 13, 319-329	3.8	11
29	Divergent coronary flow responses to uridine adenosine tetraphosphate in atherosclerotic ApoE knockout mice. <i>Purinergic Signalling</i> , 2017 , 13, 591-600	3.8	4
28	Stratified Bacterial and Archaeal Community in Mangrove and Intertidal Wetland Mudflats Revealed by High Throughput 16S rRNA Gene Sequencing. <i>Frontiers in Microbiology</i> , 2017 , 8, 2148	5.7	59
27	Impaired Aortic Contractility to Uridine Adenosine Tetraphosphate in Angiotensin II-Induced Hypertensive Mice: Receptor Desensitization?. <i>American Journal of Hypertension</i> , 2017 , 30, 304-312	2.3	9
26	Enhanced A2A adenosine receptor-mediated increase in coronary flow in type I diabetic mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 90, 30-7	5.8	12
25	High Frequency of spp. and in Association with spp. in a Long-Term Incubation of -Alkanes-Degrading Methanogenic Enrichment Culture. <i>Frontiers in Microbiology</i> , 2016 , 7, 1431	5.7	63
24	Uridine adenosine tetraphosphate acts as a proangiogenic factor in vitro through purinergic P2Y receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H299-309	5.2	13
23	Coronary microvascular dysfunction after long-term diabetes and hypercholesterolemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1339-H1351	5.2	37
22	Mechanisms underlying uridine adenosine tetraphosphate-induced vascular contraction in mouse aorta: Role of thromboxane and purinergic receptors. <i>Vascular Pharmacology</i> , 2015 , 73, 78-85	5.9	23
21	Involvement of NADPH oxidase in A2A adenosine receptor-mediated increase in coronary flow in isolated mouse hearts. <i>Purinergic Signalling</i> , 2015 , 11, 263-73	3.8	20
20	Complex community of nitrite-dependent anaerobic methane oxidation bacteria in coastal sediments of the Mai Po wetland by PCR amplification of both 16S rRNA and pmoA genes. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1463-73	5.7	61
19	Analysis of methane-producing and metabolizing archaeal and bacterial communities in sediments of the northern South China Sea and coastal Mai Po Nature Reserve revealed by PCR amplification of mcrA and pmoA genes. <i>Frontiers in Microbiology</i> , 2014 , 5, 789	5.7	18
18	New PCR primers based on mcrA gene for retrieving more anaerobic methanotrophic archaea from coastal reedbed sediments. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 4663-70	5.7	6
17	Phosphodiesterase-5 activity exerts a coronary vasoconstrictor influence in awake swine that is mediated in part via an increase in endothelin production. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H918-27	5.2	6
16	Pulmonary vasoconstrictor influence of endothelin in exercising swine depends critically on phosphodiesterase 5 activity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L442-52	5.8	14
15	Blunted coronary vasodilator response to uridine adenosine tetraphosphate in post-infarct remodeled myocardium is due to reduced P1 receptor activation. <i>Pharmacological Research</i> , 2013 , 77, 22-9	10.2	18
14	Iodobacter limnosediminis sp. nov., isolated from Arctic lake sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013 , 63, 1464-1470	2.2	7
13	Uridine adenosine tetraphosphate is a novel vasodilator in the coronary microcirculation which acts through purinergic P1 but not P2 receptors. <i>Pharmacological Research</i> , 2013 , 67, 10-7	10.2	29

12	Phosphodiesterase 5 inhibition-induced coronary vasodilation is reduced after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1370-81	5.2	16
11	Cytochrome P450 2C9 contributes to pulmonary vasoconstriction in exercising swine. <i>FASEB Journal</i> , 2013 , 27, 898.1	0.9	
10	Phosphodiesterase-5 activity exerts a coronary vasoconstrictor influence in awake swine that is partly mediated via an increase in endothelin production. <i>FASEB Journal</i> , 2013 , 27, 1185.5	0.9	
9	Cytochrome P-450 2C9 exerts a vasoconstrictor influence on coronary resistance vessels in swine at rest and during exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H1747-55	5.2	9
8	Sunitinib-induced systemic vasoconstriction in swine is endothelin mediated and does not involve nitric oxide or oxidative stress. <i>Hypertension</i> , 2012 , 59, 151-7	8.5	89
7	Pedobacter arcticus sp. nov., a facultative psychrophile isolated from Arctic soil, and emended descriptions of the genus Pedobacter, Pedobacter heparinus, Pedobacter daechungensis, Pedobacter terricola, Pedobacter glucosidilyticus and Pedobacter lentus. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012 , 62, 1869-1879	2.2	58
6	Uridine adenosine tetraphosphate (Up4A) as a novel coronary vasodilator in health and disease: Role of purinergic P1 and P2 receptors. <i>FASEB Journal</i> , 2012 , 26, 1055.5	0.9	
5	Disruption of CD38 gene enhances cardiac functions by elevating serum testosterone in the male null mice. <i>Life Sciences</i> , 2011 , 89, 491-7	6.8	11
4	Don't forget the gut--it is an important athletic organ!. <i>Journal of Applied Physiology</i> , 2011 , 110, 278; discussion 294	3.7	19
3	Asgard archaea are diverse, ubiquitous, and transcriptionally active microbes		9
2	METABOLIC: High-throughput profiling of microbial genomes for functional traits, biogeochemistry, and community-scale metabolic networks		17
1	Virus-associated organosulfur metabolism in human and environmental systems		2