

Zhichao Zhou

List of Publications by Citations

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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 | Bathyarchaeota: globally distributed metabolic generalists in anoxic environments. <i>FEMS Microbiology Reviews</i> , 2018 , 42, 639-655 | 15.1 | 106 |
| 82 | Insights into the ecology, evolution, and metabolism of the widespread Woese archaeotal lineages. <i>Microbiome</i> , 2018 , 6, 102 | 16.6 | 98 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | Comparative genomic inference suggests mixotrophic lifestyle for Thorarchaeota. <i>ISME Journal</i> , 2018 , 12, 1021-1031 | 11.9 | 59 |
| 76 | 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 |
| 75 | 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, 1802-1810 | 2.2 | 58 |
| 74 | 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 |
| 73 | Red blood cell dysfunction: a new player in cardiovascular disease. <i>Cardiovascular Research</i> , 2019 , 115, 1596-1605 | 9.9 | 48 |
| 72 | Complex microbial nitrogen-cycling networks in three distinct anammox-inoculated wastewater treatment systems. <i>Water Research</i> , 2020 , 168, 115142 | 12.5 | 46 |
| 71 | Genome diversification in globally distributed novel marine Proteobacteria is linked to environmental adaptation. <i>ISME Journal</i> , 2020 , 14, 2060-2077 | 11.9 | 38 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |

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|----|--|------|----|
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | Uridine adenosine tetraphosphate and purinergic signaling in cardiovascular system: An update. <i>Pharmacological Research</i> , 2019 , 141, 32-45 | 10.2 | 19 |
| 58 | 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 |
| 57 | 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 |
| 56 | METABOLIC: High-throughput profiling of microbial genomes for functional traits, biogeochemistry, and community-scale metabolic networks | | 17 |
| 55 | 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 |
| 54 | 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 |
| 53 | Red Blood Cell Peroxynitrite Causes Endothelial Dysfunction in Type 2 Diabetes Mellitus via Arginase. <i>Cells</i> , 2020 , 9, | 7.9 | 16 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |

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|----|--|------|----|
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | Adenosine and adenosine receptor-mediated action in coronary microcirculation. <i>Basic Research in Cardiology</i> , 2021 , 116, 22 | 11.8 | 13 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | Altered Purinergic Receptor Sensitivity in Type 2 Diabetes-Associated Endothelial Dysfunction and Up β -Mediated Vascular Contraction. <i>International Journal of Molecular Sciences</i> , 2018 , 19, | 6.3 | 11 |
| 37 | 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 |
| 36 | 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 |
| 35 | Soil microbiomes mediate degradation of vinyl ester-based polymer composites. <i>Communications Materials</i> , 2020 , 1, | 6 | 9 |
| 34 | Asgard archaea are diverse, ubiquitous, and transcriptionally active microbes | | 9 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |

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| 30 | 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 |
| 29 | Subgroup level differences of physiological activities in marine Lokiarchaeota. <i>ISME Journal</i> , 2021 , 15, 848-861 | 11.9 | 8 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | Purinergic Dysfunction in Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , 2020 , 9, e017404 | 6 | 6 |
| 23 | 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 |
| 22 | P2X7 Receptor-Mediated Inflammation in Cardiovascular Disease. <i>Frontiers in Pharmacology</i> , 2021 , 12, 654425 | 5.6 | 6 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | Erythrocytes Induce Vascular Dysfunction in COVID-19.. <i>JACC Basic To Translational Science</i> , 2022 , | 8.7 | 5 |
| 17 | Divergent coronary flow responses to uridine adenosine tetraphosphate in atherosclerotic ApoE knockout mice. <i>Purinergic Signalling</i> , 2017 , 13, 591-600 | 3.8 | 4 |
| 16 | Infective endocarditis - A review of current therapy and future challenges. <i>Hellenic Journal of Cardiology</i> , 2021 , 62, 190-200 | 2.1 | 4 |
| 15 | 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 |
| 14 | 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 |
| 13 | Virus-associated organosulfur metabolism in human and environmental systems | | 2 |

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|----|---|------|---|
| 12 | Purinergic interplay between erythrocytes and platelets in diabetes-associated vascular dysfunction. <i>Purinergic Signalling</i> , 2021 , 1 | 3.8 | 2 |
| 11 | 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 |
| 10 | MicroRNA: A mediator of diet-induced cardiovascular protection. <i>Current Opinion in Pharmacology</i> , 2021 , 60, 183-192 | 5.1 | 2 |
| 9 | 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 |
| 8 | A 15-Year Study on UpA in Cardiovascular Disease. <i>Frontiers in Pharmacology</i> , 2020 , 11, 1200 | 5.6 | 1 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 | |
| 4 | Cytochrome P450 2C9 contributes to pulmonary vasoconstriction in exercising swine. <i>FASEB Journal</i> , 2013 , 27, 898.1 | 0.9 | |
| 3 | 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 | |
| 2 | Purinergic activation in response to hemodynamic force directs heart valve development.. <i>Purinergic Signalling</i> , 2022 , 1 | 3.8 | |
| 1 | Therapeutic Potential of Sunitinib in Ameliorating Endothelial Dysfunction in Type 2 Diabetic Rats.. <i>Pharmacology</i> , 2021 , 1-7 | 2.3 | |