

Xiaoxue Wang

List of Publications by Year in descending order

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71
papers

3,869
citations

172457

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72
docs citations

72
times ranked

3982
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Cryptic prophages help bacteria cope with adverse environments. <i>Nature Communications</i> , 2010, 1, 147. | 12.8 | 560 |
| 2 | Toxin-Antitoxin Systems Influence Biofilm and Persister Cell Formation and the General Stress Response. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5577-5583. | 3.1 | 368 |
| 3 | A new type V toxin-antitoxin system where mRNA for toxin GhoT is cleaved by antitoxin GhoS. <i>Nature Chemical Biology</i> , 2012, 8, 855-861. | 8.0 | 268 |
| 4 | Antitoxin MqsA helps mediate the bacterial general stress response. <i>Nature Chemical Biology</i> , 2011, 7, 359-366. | 8.0 | 201 |
| 5 | Toxin-Antitoxin Systems in <i>Escherichia coli</i> Influence Biofilm Formation through YjgK (TabA) and Fimbriae. <i>Journal of Bacteriology</i> , 2009, 191, 1258-1267. | 2.2 | 159 |
| 6 | Synthetic quorum-sensing circuit to control consortial biofilm formation and dispersal in a microfluidic device. <i>Nature Communications</i> , 2012, 3, 613. | 12.8 | 152 |
| 7 | <i>Escherichia coli</i> toxin/antitoxin pair MqsR/MqsA regulate toxin CspD. <i>Environmental Microbiology</i> , 2010, 12, 1105-1121. | 3.8 | 147 |
| 8 | Bacterial persistence increases as environmental fitness decreases. <i>Microbial Biotechnology</i> , 2012, 5, 509-522. | 4.2 | 137 |
| 9 | Type II toxin/antitoxin MqsR/MqsA controls type V toxin/antitoxin GhoT/GhoS. <i>Environmental Microbiology</i> , 2013, 15, 1734-1744. | 3.8 | 100 |
| 10 | Control and benefits of CP4-57 prophage excision in <i>Escherichia coli</i> biofilms. <i>ISME Journal</i> , 2009, 3, 1164-1179. | 9.8 | 98 |
| 11 | RalR (a DNase) and RalA (a small RNA) form a type I toxin-antitoxin system in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2014, 42, 6448-6462. | 14.5 | 98 |
| 12 | Marine Bacteria Provide Lasting Anticorrosion Activity for Steel via Biofilm-Induced Mineralization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40317-40327. | 8.0 | 87 |
| 13 | Development of an efficient conjugation-based genetic manipulation system for <i>Pseudoalteromonas</i> . <i>Microbial Cell Factories</i> , 2015, 14, 11. | 4.0 | 81 |
| 14 | Cold adaptation regulated by cryptic prophage excision in <i>Shewanella oneidensis</i> . <i>ISME Journal</i> , 2016, 10, 2787-2800. | 9.8 | 72 |
| 15 | Controlling biofilm formation, prophage excision and cell death by rewiring global regulator HNS of <i>Escherichia coli</i> . <i>Microbial Biotechnology</i> , 2010, 3, 344-356. | 4.2 | 66 |
| 16 | Cryptic prophages as targets for drug development. <i>Drug Resistance Updates</i> , 2016, 27, 30-38. | 14.4 | 58 |
| 17 | Type VII Toxin/Antitoxin Classification System for Antitoxins that Enzymatically Neutralize Toxins. <i>Trends in Microbiology</i> , 2021, 29, 388-393. | 7.7 | 58 |
| 18 | Polymorphism in a serine protease inhibitor gene and its association with disease resistance in the eastern oyster (<i>Crassostrea virginica</i> Gmelin). <i>Fish and Shellfish Immunology</i> , 2011, 30, 757-762. | 3.6 | 57 |

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|----|---|-----|-----------|
| 19 | Colistin Resistance Gene <i>mcr-1</i> Mediates Cell Permeability and Resistance to Hydrophobic Antibiotics. <i>Frontiers in Microbiology</i> , 2019, 10, 3015. | 3.5 | 49 |
| 20 | Eliminating <i>mcr-1</i> -harbouring plasmids in clinical isolates using the CRISPR/Cas9 system. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 2559-2565. | 3.0 | 48 |
| 21 | IS <i>5</i> inserts upstream of the master motility operon <i>flhDC</i> in a quasi-Lamarckian way. <i>ISME Journal</i> , 2011, 5, 1517-1525. | 9.8 | 46 |
| 22 | MqsR/MqsA Toxin/Antitoxin System Regulates Persistence and Biofilm Formation in <i>Pseudomonas putida</i> KT2440. <i>Frontiers in Microbiology</i> , 2017, 8, 840. | 3.5 | 46 |
| 23 | Characterization of self-generated variants in <i>Pseudoalteromonas lipolytica</i> biofilm with increased antifouling activities. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10127-10139. | 3.6 | 39 |
| 24 | Type II toxin/antitoxin system ParE _{SO} /CopA _{SO} stabilizes prophage CP4So in <i>Shewanella oneidensis</i> . <i>Environmental Microbiology</i> , 2018, 20, 1224-1239. | 3.8 | 39 |
| 25 | Antitoxin HigA inhibits virulence gene <i>mvfR</i> expression in <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2019, 21, 2707-2723. | 3.8 | 39 |
| 26 | A 16-microsatellite multiplex assay for parentage assignment in the eastern oyster (<i>Crassostrea</i>) Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 4 | 3.5 | 35 |
| 27 | Pyomelanin from <i>Pseudoalteromonas lipolytica</i> reduces biofouling. <i>Microbial Biotechnology</i> , 2017, 10, 1718-1731. | 4.2 | 35 |
| 28 | Identification and characterization of a <i>HEPN</i> family type <i>II</i> toxin-antitoxin in <i>Shewanella oneidensis</i> . <i>Microbial Biotechnology</i> , 2015, 8, 961-973. | 4.2 | 34 |
| 29 | Excisionase in Pf filamentous prophage controls lysis-lysogeny decision-making in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2019, 111, 495-513. | 2.5 | 34 |
| 30 | Tail-Anchored Inner Membrane Protein ElaB Increases Resistance to Stress While Reducing Persistence in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2017, 199, . | 2.2 | 31 |
| 31 | Prophage encoding toxin/antitoxin system PfiT/PfiA inhibits Pf4 production in <i>Pseudomonas aeruginosa</i> . <i>Microbial Biotechnology</i> , 2020, 13, 1132-1144. | 4.2 | 30 |
| 32 | Effect of Dietary Supplementation of Brewer's Yeast and GroBiotic [®] -A on Growth, Immune Responses, and Low-Salinity Tolerance of Pacific White Shrimp <i>Litopenaeus vannamei</i> Cultured in Recirculating Systems. <i>Journal of Applied Aquaculture</i> , 2009, 21, 110-119. | 1.4 | 29 |
| 33 | Physiological Function of Rac Prophage During Biofilm Formation and Regulation of Rac Excision in <i>Escherichia coli</i> K-12. <i>Scientific Reports</i> , 2015, 5, 16074. | 3.3 | 28 |
| 34 | Antimicrobial Resistance Profile of <i>mcr-1</i> Positive Clinical Isolates of <i>Escherichia coli</i> in China From 2013 to 2016. <i>Frontiers in Microbiology</i> , 2018, 9, 2514. | 3.5 | 28 |
| 35 | Excessive dietary levamisole suppresses growth performance of hybrid striped bass, <i>Morone chrysops</i> × <i>M. saxatilis</i> , and elevated levamisole in vitro impairs macrophage function. <i>Aquaculture Research</i> , 2004, 35, 1380-1383. | 1.8 | 27 |
| 36 | Interaction of Type IV Toxin/Antitoxin Systems in Cryptic Prophages of <i>Escherichia coli</i> K-12. <i>Toxins</i> , 2017, 9, 77. | 3.4 | 27 |

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|----|--|------|-----------|
| 37 | Novel polyadenylation-dependent neutralization mechanism of the HEPN/MNT toxin/antitoxin system. <i>Nucleic Acids Research</i> , 2020, 48, 11054-11067. | 14.5 | 27 |
| 38 | Conjugative plasmid-encoded toxin-antitoxin system PrpT/PrpA directly controls plasmid copy number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 25 |
| 39 | Structure-function analyses reveal the molecular architecture and neutralization mechanism of a bacterial HEPN-MNT toxin-antitoxin system. <i>Journal of Biological Chemistry</i> , 2018, 293, 6812-6823. | 3.4 | 24 |
| 40 | Quantitative genetics and heritability of growth-related traits in hybrid striped bass (<i>Morone chrysops</i> × <i>Morone saxatilis</i>). <i>Overlock 10, Tf 50 622</i> | 3.5 | 23 |
| 41 | Heritability of juvenile growth traits in red drum (<i>Sciaenops ocellatus</i> L.). <i>Aquaculture Research</i> , 2007, 38, 781-788. | 1.8 | 23 |
| 42 | Resistance to oxidative stress by inner membrane protein ElaB is regulated by OxyR and RpoS. <i>Microbial Biotechnology</i> , 2019, 12, 392-404. | 4.2 | 21 |
| 43 | Antagonism between coral pathogen <i>Vibrio coralliilyticus</i> and other bacteria in the gastric cavity of scleractinian coral <i>Galaxea fascicularis</i> . <i>Science China Earth Sciences</i> , 2020, 63, 157-166. | 5.2 | 21 |
| 44 | Phages Mediate Bacterial Self-Recognition. <i>Cell Reports</i> , 2019, 27, 737-749.e4. | 6.4 | 20 |
| 45 | The coral pathogen <i>Vibrio coralliilyticus</i> kills non-pathogenic holobiont competitors by triggering prophage induction. <i>Nature Ecology and Evolution</i> , 2022, 6, 1132-1144. | 7.8 | 20 |
| 46 | Evaluation of levamisole as a feed additive for growth and health management of hybrid striped bass (<i>Morone chrysops</i> × <i>Morone saxatilis</i>). <i>Aquaculture</i> , 2006, 251, 201-209. | 3.5 | 19 |
| 47 | Biofilm Formation and Heat Stress Induce Pyomelanin Production in Deep-Sea <i>Pseudoalteromonas</i> sp. SM9913. <i>Frontiers in Microbiology</i> , 2017, 8, 1822. | 3.5 | 18 |
| 48 | Complete genome sequence of <i>Vibrio alginolyticus</i> ATCC 33787T isolated from seawater with three native megaplasmids. <i>Marine Genomics</i> , 2016, 28, 45-47. | 1.1 | 16 |
| 49 | Symbiosis of a P2-family phage and deep-sea <i>Shewanella putrefaciens</i> . <i>Environmental Microbiology</i> , 2019, 21, 4212-4232. | 3.8 | 16 |
| 50 | Microbes mediated comprehensive carbon sequestration for negative emissions in the ocean. <i>National Science Review</i> , 2020, 7, 1858-1860. | 9.5 | 15 |
| 51 | Molybdenum-mediated chemotaxis of <i>Pseudoalteromonas lipolytica</i> enhances biofilm-induced mineralization on low alloy steel surface. <i>Corrosion Science</i> , 2019, 159, 108123. | 6.6 | 13 |
| 52 | Upregulation of a marine fungal biosynthetic gene cluster by an endobacterial symbiont. <i>Communications Biology</i> , 2020, 3, 527. | 4.4 | 12 |
| 53 | Prophage Tracer: precisely tracing prophages in prokaryotic genomes using overlapping split-read alignment. <i>Nucleic Acids Research</i> , 2021, 49, e128-e128. | 14.5 | 12 |
| 54 | RRR- α -Tocopheryl succinate is a less bioavailable source of vitamin E than all-rac- α -tocopheryl acetate for red drum, <i>Sciaenops ocellatus</i> . <i>Aquaculture</i> , 2008, 280, 165-169. | 3.5 | 11 |

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|----|--|------|-----------|
| 55 | Xenogeneic silencing relies on temperature-dependent phosphorylation of the host H-NS protein in <i>Shewanella</i> . <i>Nucleic Acids Research</i> , 2021, 49, 3427-3440. | 14.5 | 11 |
| 56 | Genetic effects on tolerance to acute cold stress in red drum, <i>Sciaenops ocellatus</i> L.. <i>Aquaculture Research</i> , 2008, 39, 1393-1398. | 1.8 | 10 |
| 57 | Characterization of the Deep-Sea <i>Streptomyces</i> sp. SCSIO 02999 Derived VapC/VapB Toxin-Antitoxin System in <i>Escherichia coli</i> . <i>Toxins</i> , 2016, 8, 195. | 3.4 | 10 |
| 58 | Dissemination and loss of a biofilm-related genomic island in marine <i>Pseudoalteromonas</i> mediated by integrative and conjugative elements. <i>Environmental Microbiology</i> , 2017, 19, 4620-4637. | 3.8 | 10 |
| 59 | Identification of bacteria-derived urease in the coral gastric cavity. <i>Science China Earth Sciences</i> , 2020, 63, 1553-1563. | 5.2 | 10 |
| 60 | Filamentous prophage capsid proteins contribute to superinfection exclusion and phage defence in <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2022, 24, 4285-4298. | 3.8 | 10 |
| 61 | Genome Sequences of Two <i>Pseudoalteromonas</i> Strains Isolated from the South China Sea. <i>Genome Announcements</i> , 2014, 2, . | 0.8 | 9 |
| 62 | Complete genome sequence of <i>Pseudoalteromonas rubra</i> SCSIO 6842, harboring a putative conjugative plasmid pMBL6842. <i>Journal of Biotechnology</i> , 2016, 224, 66-67. | 3.8 | 8 |
| 63 | High Efficiency Hydrodynamic DNA Fragmentation in a Bubbling System. <i>Scientific Reports</i> , 2017, 7, 40745. | 3.3 | 8 |
| 64 | Biofilm formation in <i>Pseudoalteromonas lipolytica</i> is related to IS5-like insertions in the capsular polysaccharide operon. <i>FEMS Microbiology Ecology</i> , 2019, 95, . | 2.7 | 7 |
| 65 | Mobile genetic elements used by competing coral microbial populations increase genomic plasticity. <i>ISME Journal</i> , 2022, 16, 2220-2229. | 9.8 | 7 |
| 66 | Genetic effects on carcass-quality traits in hybrid striped bass (<i>Morone chrysops</i> × 1/2 <i>Morone saxatilis</i>) Tj ETQq0 0,0,rgBT /Oyerlock 10 | 1.8 | 6 |
| 67 | Structure and allosteric coupling of type A antitoxin CopASO. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 1122-1127. | 2.1 | 5 |
| 68 | The HipAB Toxin-Antitoxin System Stabilizes a Composite Genomic Island in <i>Shewanella putrefaciens</i> CN-32. <i>Frontiers in Microbiology</i> , 2022, 13, 858857. | 3.5 | 5 |
| 69 | Characterization of Two Toxin-Antitoxin Systems in Deep-Sea <i>Streptomyces</i> sp. SCSIO 02999. <i>Marine Drugs</i> , 2019, 17, 211. | 4.6 | 4 |
| 70 | Rapid detection of temperate bacteriophage using a simple motility assay. <i>Environmental Microbiology Reports</i> , 2021, 13, 728-734. | 2.4 | 2 |
| 71 | Phage Mediate Bacterial Self Recognition. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |