

Alexa Price-Whelan

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

3,215
citations

394421

19
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

3290
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The phenazine pyocyanin is a terminal signalling factor in the quorum sensing network of <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2006, 61, 1308-1321. | 2.5 | 639 |
| 2 | Rethinking 'secondary' metabolism: physiological roles for phenazine antibiotics. <i>Nature Chemical Biology</i> , 2006, 2, 71-78. | 8.0 | 483 |
| 3 | Redox-Active Antibiotics Control Gene Expression and Community Behavior in Divergent Bacteria. <i>Science</i> , 2008, 321, 1203-1206. | 12.6 | 394 |
| 4 | Pyocyanin Alters Redox Homeostasis and Carbon Flux through Central Metabolic Pathways in <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2007, 189, 6372-6381. | 2.2 | 291 |
| 5 | Bacterial Community Morphogenesis Is Intimately Linked to the Intracellular Redox State. <i>Journal of Bacteriology</i> , 2013, 195, 1371-1380. | 2.2 | 268 |
| 6 | Phenazine production promotes antibiotic tolerance and metabolic heterogeneity in <i>Pseudomonas aeruginosa</i> biofilms. <i>Nature Communications</i> , 2019, 10, 762. | 12.8 | 176 |
| 7 | Redundant phenazine operons in <i>Pseudomonas aeruginosa</i> exhibit environment-dependent expression and differential roles in pathogenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19420-19425. | 7.1 | 158 |
| 8 | The <i>Pseudomonas aeruginosa</i> efflux pump MexGHI-OpmD transports a natural phenazine that controls gene expression and biofilm development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3538-47. | 7.1 | 145 |
| 9 | Electrochemical camera chip for simultaneous imaging of multiple metabolites in biofilms. <i>Nature Communications</i> , 2016, 7, 10535. | 12.8 | 105 |
| 10 | Gradients and consequences of heterogeneity in biofilms. <i>Nature Reviews Microbiology</i> , 2022, 20, 593-607. | 28.6 | 84 |
| 11 | Electron-shuttling antibiotics structure bacterial communities by modulating cellular levels of c-di-GMP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5236-E5245. | 7.1 | 82 |
| 12 | An orphan cbb3-type cytochrome oxidase subunit supports <i>Pseudomonas aeruginosa</i> biofilm growth and virulence. <i>ELife</i> , 2017, 6, . | 6.0 | 77 |
| 13 | Metabolic Heterogeneity and Cross-Feeding in Bacterial Multicellular Systems. <i>Trends in Microbiology</i> , 2020, 28, 732-743. | 7.7 | 65 |
| 14 | Redox-driven regulation of microbial community morphogenesis. <i>Current Opinion in Microbiology</i> , 2014, 18, 39-45. | 5.1 | 64 |
| 15 | Spatial alanine metabolism determines local growth dynamics of <i>Escherichia coli</i> colonies. <i>ELife</i> , 2021, 10, . | 6.0 | 36 |
| 16 | The <i>Pseudomonas aeruginosa</i> Complement of Lactate Dehydrogenases Enables Use of D - and L -Lactate and Metabolic Cross-Feeding. <i>MBio</i> , 2018, 9, . | 4.1 | 33 |
| 17 | Interdependency of Respiratory Metabolism and Phenazine-Associated Physiology in <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2020, 202, . | 2.2 | 33 |
| 18 | Phenazines Regulate Nap-Dependent Denitrification in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Journal of Bacteriology</i> , 2018, 200, . | 2.2 | 29 |

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|----|---|------|-----------|
| 19 | Light-Mediated Decreases in Cyclic di-GMP Levels Inhibit Structure Formation in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Journal of Bacteriology</i> , 2020, 202, . | 2.2 | 23 |
| 20 | An Aerobic Exercise: Defining the Roles of <i>Pseudomonas aeruginosa</i> Terminal Oxidases. <i>Journal of Bacteriology</i> , 2014, 196, 4203-4205. | 2.2 | 12 |
| 21 | <i>Pseudomonas aeruginosa</i> PA14 produces R-bodies, extendable protein polymers with roles in host colonization and virulence. <i>Nature Communications</i> , 2021, 12, 4613. | 12.8 | 7 |
| 22 | Sensory Domains That Control Cyclic di-GMP-Modulating Proteins: A Critical Frontier in Bacterial Signal Transduction. , 2020, , 137-158. | | 4 |