

Shawn French

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4102962/publications.pdf>

Version: 2024-02-01

27
papers

2,142
citations

430442

18
h-index

476904

29
g-index

29
all docs

29
docs citations

29
times ranked

3084
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Deep Learning Approach to Antibiotic Discovery. <i>Cell</i> , 2020, 180, 688-702.e13. | 13.5 | 978 |
| 2 | Pentamidine sensitizes Gram-negative pathogens to antibiotics and overcomes acquired colistin resistance. <i>Nature Microbiology</i> , 2017, 2, 17028. | 5.9 | 256 |
| 3 | Bicarbonate Alters Bacterial Susceptibility to Antibiotics by Targeting the Proton Motive Force. <i>ACS Infectious Diseases</i> , 2018, 4, 382-390. | 1.8 | 92 |
| 4 | Assembly and clustering of natural antibiotics guides target identification. <i>Nature Chemical Biology</i> , 2016, 12, 233-239. | 3.9 | 86 |
| 5 | Antagonism screen for inhibitors of bacterial cell wall biogenesis uncovers an inhibitor of undecaprenyl diphosphate synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11048-11053. | 3.3 | 83 |
| 6 | Potential of Antibiotics against Gram-Negative Bacteria by Polymyxin B Analogue SPR741 from Unique Perturbation of the Outer Membrane. <i>ACS Infectious Diseases</i> , 2020, 6, 1405-1412. | 1.8 | 72 |
| 7 | Cold Stress Makes <i>Escherichia coli</i> Susceptible to Glycopeptide Antibiotics by Altering Outer Membrane Integrity. <i>Cell Chemical Biology</i> , 2016, 23, 267-277. | 2.5 | 65 |
| 8 | A macrophage-based screen identifies antibacterial compounds selective for intracellular <i>Salmonella Typhimurium</i> . <i>Nature Communications</i> , 2019, 10, 197. | 5.8 | 59 |
| 9 | A robust platform for chemical genomics in bacterial systems. <i>Molecular Biology of the Cell</i> , 2016, 27, 1015-1025. | 0.9 | 57 |
| 10 | Structural and Kinetic Characterization of Diazabicyclooctanes as Dual Inhibitors of Both Serine-β-Lactamases and Penicillin-Binding Proteins. <i>ACS Chemical Biology</i> , 2016, 11, 864-868. | 1.6 | 52 |
| 11 | The dynamic nature of bacterial surfaces: Implications for metal-membrane interaction. <i>Critical Reviews in Microbiology</i> , 2013, 39, 196-217. | 2.7 | 37 |
| 12 | Identification of Two Phosphate Starvation-induced Wall Teichoic Acid Hydrolases Provides First Insights into the Degradative Pathway of a Key Bacterial Cell Wall Component. <i>Journal of Biological Chemistry</i> , 2016, 291, 26066-26082. | 1.6 | 34 |
| 13 | The Genome-Wide Interaction Network of Nutrient Stress Genes in <i>Escherichia coli</i> . <i>MBio</i> , 2016, 7, . | 1.8 | 30 |
| 14 | A multiplexable assay for screening antibiotic lethality against drug-tolerant bacteria. <i>Nature Methods</i> , 2019, 16, 303-306. | 9.0 | 30 |
| 15 | Bacteria Getting into Shape: Genetic Determinants of <i>E. coli</i> Morphology. <i>MBio</i> , 2017, 8, . | 1.8 | 29 |
| 16 | Chemical Screen for Vancomycin Antagonism Uncovers Probes of the Gram-Negative Outer Membrane. <i>ACS Chemical Biology</i> , 2021, 16, 929-942. | 1.6 | 29 |
| 17 | Genetic and Chemical Screening in Human Blood Serum Reveals Unique Antibacterial Targets and Compounds against <i>Klebsiella pneumoniae</i> . <i>Cell Reports</i> , 2020, 32, 107927. | 2.9 | 28 |
| 18 | Gene Dispensability in <i>Escherichia coli</i> Grown in Thirty Different Carbon Environments. <i>MBio</i> , 2020, 11, . | 1.8 | 21 |

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|----|---|-----|-----------|
| 19 | Genetic and Chemical-Genetic Interactions Map Biogenesis and Permeability Determinants of the Outer Membrane of <i>Escherichia coli</i> . <i>MBio</i> , 2020, 11, . | 1.8 | 20 |
| 20 | Open-Source High-Throughput Phenomics of Bacterial Promoter-Reporter Strains. <i>Cell Systems</i> , 2018, 7, 339-346.e3. | 2.9 | 19 |
| 21 | Systems-Level Chemical Biology to Accelerate Antibiotic Drug Discovery. <i>Accounts of Chemical Research</i> , 2021, 54, 1909-1920. | 7.6 | 15 |
| 22 | Exploiting the Sensitivity of Nutrient Transporter Deletion Strains in Discovery of Natural Product Antimetabolites. <i>ACS Infectious Diseases</i> , 2017, 3, 955-965. | 1.8 | 12 |
| 23 | Chemical genomics reveals mechanistic hypotheses for uncharacterized bioactive molecules in bacteria. <i>Current Opinion in Microbiology</i> , 2017, 39, 42-47. | 2.3 | 11 |
| 24 | Physicochemical and Structural Parameters Contributing to the Antibacterial Activity and Efflux Susceptibility of Small-Molecule Inhibitors of <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, . | 1.4 | 9 |
| 25 | A cell-based approach to characterize antimicrobial compounds through kinetic dose response. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6315-6319. | 1.4 | 7 |
| 26 | Changes in <i>Shewanella putrefaciens</i> CN32 Membrane Stability upon Growth in the Presence of Soluble Mn(II), V(IV), and U(VI). <i>Geomicrobiology Journal</i> , 2013, 30, 245-254. | 1.0 | 4 |
| 27 | A comprehensive guide to dynamic analysis of microbial gene expression using the 3D-printed PFIbox and a fluorescent reporter library. <i>Nature Protocols</i> , 2020, 15, 575-603. | 5.5 | 2 |