

Erkin Kuru

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,462
citations

318942

23
h-index

488211

31
g-index

35
all docs

35
docs citations

35
times ranked

3822
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | In situ Probing of Newly Synthesized Peptidoglycan in Live Bacteria with Fluorescent D-Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12519-12523. | 7.2 | 541 |
| 2 | Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017, 355, 739-743. | 6.0 | 503 |
| 3 | Synthesis of fluorescent D-amino acids and their use for probing peptidoglycan synthesis and bacterial growth in situ. <i>Nature Protocols</i> , 2015, 10, 33-52. | 5.5 | 268 |
| 4 | Cell shape dynamics during the staphylococcal cell cycle. <i>Nature Communications</i> , 2015, 6, 8055. | 5.8 | 208 |
| 5 | MapZ marks the division sites and positions FtsZ rings in <i>Streptococcus pneumoniae</i> . <i>Nature</i> , 2014, 516, 259-262. | 13.7 | 194 |
| 6 | Anammox Planctomycetes have a peptidoglycan cell wall. <i>Nature Communications</i> , 2015, 6, 6878. | 5.8 | 194 |
| 7 | Interplay of the Serine/Threonine-Kinase StkP and the Paralogs DivIVA and GpsB in Pneumococcal Cell Elongation and Division. <i>PLoS Genetics</i> , 2014, 10, e1004275. | 1.5 | 166 |
| 8 | Discovery of chlamydial peptidoglycan reveals bacteria with murein sacculi but without FtsZ. <i>Nature Communications</i> , 2013, 4, 2856. | 5.8 | 123 |
| 9 | The mechanism of force transmission at bacterial focal adhesion complexes. <i>Nature</i> , 2016, 539, 530-535. | 13.7 | 120 |
| 10 | Full color palette of fluorescent D-amino acids for in situ labeling of bacterial cell walls. <i>Chemical Science</i> , 2017, 8, 6313-6321. | 3.7 | 111 |
| 11 | Peptidoglycan transformations during <i>Bacillus subtilis</i> sporulation. <i>Molecular Microbiology</i> , 2013, 88, 673-686. | 1.2 | 109 |
| 12 | Fluorescent D-amino-acids reveal bi-cellular cell wall modifications important for <i>Bdellovibrio bacteriovorus</i> predation. <i>Nature Microbiology</i> , 2017, 2, 1648-1657. | 5.9 | 103 |
| 13 | Mechanisms of Incorporation for D-Amino Acid Probes That Target Peptidoglycan Biosynthesis. <i>ACS Chemical Biology</i> , 2019, 14, 2745-2756. | 1.6 | 101 |
| 14 | Fluorescent amino acids as versatile building blocks for chemical biology. <i>Nature Reviews Chemistry</i> , 2020, 4, 275-290. | 13.8 | 97 |
| 15 | Pbp2x localizes separately from Pbp2b and other peptidoglycan synthesis proteins during later stages of cell division of <i>Streptococcus pneumoniae</i> . <i>Molecular Microbiology</i> , 2014, 94, 21-40. | 1.2 | 88 |
| 16 | Pathogenic <i>Chlamydia</i> Lack a Classical Sacculus but Synthesize a Narrow, Mid-cell Peptidoglycan Ring, Regulated by MreB, for Cell Division. <i>PLoS Pathogens</i> , 2016, 12, e1005590. | 2.1 | 86 |
| 17 | Fluorogenic d-amino acids enable real-time monitoring of peptidoglycan biosynthesis and high-throughput transpeptidation assays. <i>Nature Chemistry</i> , 2019, 11, 335-341. | 6.6 | 72 |
| 18 | Minimal Peptidoglycan (PG) Turnover in Wild-Type and PG Hydrolase and Cell Division Mutants of <i>Streptococcus pneumoniae</i> D39 Growing Planktonically and in Host-Relevant Biofilms. <i>Journal of Bacteriology</i> , 2015, 197, 3472-3485. | 1.0 | 56 |

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|----|--|-----|-----------|
| 19 | Distinct cytoskeletal proteins define zones of enhanced cell wall synthesis in <i>Helicobacter pylori</i> . <i>ELife</i> , 2020, 9, . | 2.8 | 51 |
| 20 | Cogenerating Synthetic Parts toward a Self-Replicating System. <i>ACS Synthetic Biology</i> , 2017, 6, 1327-1336. | 1.9 | 40 |
| 21 | Modes of cell wall growth differentiation in rod-shaped bacteria. <i>Current Opinion in Microbiology</i> , 2013, 16, 731-737. | 2.3 | 37 |
| 22 | Engineering posttranslational proofreading to discriminate nonstandard amino acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 619-624. | 3.3 | 37 |
| 23 | Host-Polarized Cell Growth in Animal Symbionts. <i>Current Biology</i> , 2018, 28, 1039-1051.e5. | 1.8 | 37 |
| 24 | Dissecting limiting factors of the Protein synthesis Using Recombinant Elements (PURE) system. <i>Translation</i> , 2017, 5, e1327006. | 2.9 | 24 |
| 25 | Unipolar Peptidoglycan Synthesis in the <i>Rhizobiales</i> Requires an Essential Class A Penicillin-Binding Protein. <i>MBio</i> , 2021, 12, e0234621. | 1.8 | 21 |
| 26 | Photoactivatable metabolic warheads enable precise and safe ablation of target cells in vivo. <i>Nature Communications</i> , 2021, 12, 2369. | 5.8 | 20 |
| 27 | Release Factor Inhibiting Antimicrobial Peptides Improve Nonstandard Amino Acid Incorporation in Wild-type Bacterial Cells. <i>ACS Chemical Biology</i> , 2020, 15, 1852-1861. | 1.6 | 17 |
| 28 | Anomalous COVID-19 tests hinder researchers. <i>Science</i> , 2021, 371, 244-245. | 6.0 | 11 |
| 29 | Designing efficient genetic code expansion in <i>Bacillus subtilis</i> to gain biological insights. <i>Nature Communications</i> , 2021, 12, 5429. | 5.8 | 11 |
| 30 | D-Alanine-Controlled Transient Intestinal Mono-Colonization with Non-Laboratory-Adapted Commensal <i>E. coli</i> Strain HS. <i>PLoS ONE</i> , 2016, 11, e0151872. | 1.1 | 9 |
| 31 | Probing the Role of Peptidoglycan Metabolism in <i>Helicobacter pylori</i> 's Helical Shape. <i>FASEB Journal</i> , 2018, 32, 673.27. | 0.2 | 0 |