

Erkin Kuru

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,462
citations

279798

23
h-index

434195

31
g-index

35
all docs

35
docs citations

35
times ranked

3457
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous COVID-19 tests hinder researchers. <i>Science</i> , 2021, 371, 244-245.	12.6	11
2	Photoactivatable metabolic warheads enable precise and safe ablation of target cells in vivo. <i>Nature Communications</i> , 2021, 12, 2369.	12.8	20
3	Designing efficient genetic code expansion in <i>Bacillus subtilis</i> to gain biological insights. <i>Nature Communications</i> , 2021, 12, 5429.	12.8	11
4	Unipolar Peptidoglycan Synthesis in the <i>Rhizobiales</i> Requires an Essential Class A Penicillin-Binding Protein. <i>MBio</i> , 2021, 12, e0234621.	4.1	21
5	Fluorescent amino acids as versatile building blocks for chemical biology. <i>Nature Reviews Chemistry</i> , 2020, 4, 275-290.	30.2	97
6	Release Factor Inhibiting Antimicrobial Peptides Improve Nonstandard Amino Acid Incorporation in Wild-type Bacterial Cells. <i>ACS Chemical Biology</i> , 2020, 15, 1852-1861.	3.4	17
7	Distinct cytoskeletal proteins define zones of enhanced cell wall synthesis in <i>Helicobacter pylori</i> . <i>ELife</i> , 2020, 9, .	6.0	51
8	Fluorogenic d-amino acids enable real-time monitoring of peptidoglycan biosynthesis and high-throughput transpeptidation assays. <i>Nature Chemistry</i> , 2019, 11, 335-341.	13.6	72
9	Mechanisms of Incorporation for ³⁵ S-D-Amino Acid Probes That Target Peptidoglycan Biosynthesis. <i>ACS Chemical Biology</i> , 2019, 14, 2745-2756.	3.4	101
10	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.	7.1	37
11	Host-Polarized Cell Growth in Animal Symbionts. <i>Current Biology</i> , 2018, 28, 1039-1051.e5.	3.9	37
12	Probing the Role of Peptidoglycan Metabolism in <i>Helicobacter pylori</i> 's Helical Shape. <i>FASEB Journal</i> , 2018, 32, 673.27.	0.5	0
13	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017, 355, 739-743.	12.6	503
14	Dissecting limiting factors of the Protein synthesis Using Recombinant Elements (PURE) system. <i>Translation</i> , 2017, 5, e1327006.	2.9	24
15	Cogenerating Synthetic Parts toward a Self-Replicating System. <i>ACS Synthetic Biology</i> , 2017, 6, 1327-1336.	3.8	40
16	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.	13.3	103
17	Full color palette of fluorescent ³⁵ S-d-amino acids for in situ labeling of bacterial cell walls. <i>Chemical Science</i> , 2017, 8, 6313-6321.	7.4	111
18	The mechanism of force transmission at bacterial focal adhesion complexes. <i>Nature</i> , 2016, 539, 530-535.	27.8	120

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19	D-Alanine-Controlled Transient Intestinal Mono-Colonization with Non-Laboratory-Adapted Commensal <i>E. coli</i> Strain HS. PLoS ONE, 2016, 11, e0151872.	2.5	9
20	Pathogenic Chlamydia Lack a Classical Sacculus but Synthesize a Narrow, Mid-cell Peptidoglycan Ring, Regulated by MreB, for Cell Division. PLoS Pathogens, 2016, 12, e1005590.	4.7	86
21	Anammox Planctomycetes have a peptidoglycan cell wall. Nature Communications, 2015, 6, 6878.	12.8	194
22	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. Journal of Bacteriology, 2015, 197, 3472-3485.	2.2	56
23	Cell shape dynamics during the staphylococcal cell cycle. Nature Communications, 2015, 6, 8055.	12.8	208
24	Synthesis of fluorescent D-amino acids and their use for probing peptidoglycan synthesis and bacterial growth in situ. Nature Protocols, 2015, 10, 33-52.	12.0	268
25	Interplay of the Serine/Threonine-Kinase StkP and the Paralogs DivIVA and GpsB in Pneumococcal Cell Elongation and Division. PLoS Genetics, 2014, 10, e1004275.	3.5	166
26	MapZ marks the division sites and positions FtsZ rings in <i>Streptococcus pneumoniae</i> . Nature, 2014, 516, 259-262.	27.8	194
27	<i>Pbp2x</i> localizes separately from <i>Pbp2b</i> and other peptidoglycan synthesis proteins during later stages of cell division of <i>Streptococcus pneumoniae</i> . Molecular Microbiology, 2014, 94, 21-40.	2.5	88
28	Modes of cell wall growth differentiation in rod-shaped bacteria. Current Opinion in Microbiology, 2013, 16, 731-737.	5.1	37
29	Discovery of chlamydial peptidoglycan reveals bacteria with murein sacculi but without FtsZ. Nature Communications, 2013, 4, 2856.	12.8	123
30	Peptidoglycan transformations during <i>Bacillus subtilis</i> sporulation. Molecular Microbiology, 2013, 88, 673-686.	2.5	109
31	In situ Probing of Newly Synthesized Peptidoglycan in Live Bacteria with Fluorescent D-Amino Acids. Angewandte Chemie - International Edition, 2012, 51, 12519-12523.	13.8	541