

Erkin Kuru

List of Publications by Year in descending order

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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	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.	13.8	541
2	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017, 355, 739-743.	12.6	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.	12.0	268
4	Cell shape dynamics during the staphylococcal cell cycle. <i>Nature Communications</i> , 2015, 6, 8055.	12.8	208
5	MapZ marks the division sites and positions FtsZ rings in <i>Streptococcus pneumoniae</i> . <i>Nature</i> , 2014, 516, 259-262.	27.8	194
6	Anammox Planctomycetes have a peptidoglycan cell wall. <i>Nature Communications</i> , 2015, 6, 6878.	12.8	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.	3.5	166
8	Discovery of chlamydial peptidoglycan reveals bacteria with murein sacculi but without FtsZ. <i>Nature Communications</i> , 2013, 4, 2856.	12.8	123
9	The mechanism of force transmission at bacterial focal adhesion complexes. <i>Nature</i> , 2016, 539, 530-535.	27.8	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.	7.4	111
11	Peptidoglycan transformations during <i>Bacillus subtilis</i> sporulation. <i>Molecular Microbiology</i> , 2013, 88, 673-686.	2.5	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.	13.3	103
13	Mechanisms of Incorporation for D-Amino Acid Probes That Target Peptidoglycan Biosynthesis. <i>ACS Chemical Biology</i> , 2019, 14, 2745-2756.	3.4	101
14	Fluorescent amino acids as versatile building blocks for chemical biology. <i>Nature Reviews Chemistry</i> , 2020, 4, 275-290.	30.2	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.	2.5	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.	4.7	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.	13.6	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.	2.2	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, .	6.0	51
20	Cogenerating Synthetic Parts toward a Self-Replicating System. <i>ACS Synthetic Biology</i> , 2017, 6, 1327-1336.	3.8	40
21	Modes of cell wall growth differentiation in rod-shaped bacteria. <i>Current Opinion in Microbiology</i> , 2013, 16, 731-737.	5.1	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.	7.1	37
23	Host-Polarized Cell Growth in Animal Symbionts. <i>Current Biology</i> , 2018, 28, 1039-1051.e5.	3.9	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.	4.1	21
26	Photoactivatable metabolic warheads enable precise and safe ablation of target cells in vivo. <i>Nature Communications</i> , 2021, 12, 2369.	12.8	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.	3.4	17
28	Anomalous COVID-19 tests hinder researchers. <i>Science</i> , 2021, 371, 244-245.	12.6	11
29	Designing efficient genetic code expansion in <i>Bacillus subtilis</i> to gain biological insights. <i>Nature Communications</i> , 2021, 12, 5429.	12.8	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.	2.5	9
31	Probing the Role of Peptidoglycan Metabolism in <i>Helicobacter pylori</i> 's Helical Shape. <i>FASEB Journal</i> , 2018, 32, 673.27.	0.5	0