

Erin E Carlson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1575260/publications.pdf>

Version: 2024-02-01

69
papers

5,387
citations

201674

27
h-index

91884

69
g-index

87
all docs

87
docs citations

87
times ranked

8368
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity-based ATP analog probes for bacterial histidine kinases. <i>Methods in Enzymology</i> , 2022, 664, 59-84.	1.0	3
2	High-level carbapenem tolerance requires antibiotic-induced outer membrane modifications. <i>PLoS Pathogens</i> , 2022, 18, e1010307.	4.7	18
3	Expanded profiling of β -lactam selectivity for penicillin-binding proteins in <i>Streptococcus pneumoniae</i> D39. <i>Biological Chemistry</i> , 2022, 403, 433-443.	2.5	5
4	Live-Cell Profiling of Penicillin-Binding Protein Inhibitors in <i>Escherichia coli</i> MG1655. <i>ACS Infectious Diseases</i> , 2022, 8, 1241-1252.	3.8	5
5	Organization of peptidoglycan synthesis in nodes and separate rings at different stages of cell division of <i>Streptococcus pneumoniae</i> . <i>Molecular Microbiology</i> , 2021, 115, 1152-1169.	2.5	22
6	Comparison of Bioorthogonal ^{125}I -Lactone Activity-Based Probes for Selective Labeling of Penicillin-Binding Proteins. <i>ChemBioChem</i> , 2021, 22, 193-202.	2.6	11
7	Targeting a highly conserved domain in bacterial histidine kinases to generate inhibitors with broad spectrum activity. <i>Current Opinion in Microbiology</i> , 2021, 61, 107-114.	5.1	17
8	Looks can be deceiving: Bacterial enzymes work through unanticipated mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2114568118.	7.1	1
9	Ion Mobility Mass Spectrometry as an Efficient Tool for Identification of Streptorubin B in <i>Streptomyces coelicolor</i> M145. <i>Journal of Natural Products</i> , 2020, 83, 159-163.	3.0	4
10	Enzyme-targeted fluorescent small-molecule probes for bacterial imaging. <i>Current Opinion in Chemical Biology</i> , 2020, 57, 155-165.	6.1	21
11	Modified nucleoside triphosphates in bacterial research for <i>in vitro</i> and live-cell applications. <i>RSC Chemical Biology</i> , 2020, 1, 333-351.	4.1	13
12	$2\text{-Aminobenzothiazoles}$ Inhibit Virulence Gene Expression and Block Polymyxin Resistance in <i>Salmonella enterica</i> . <i>ChemBioChem</i> , 2020, 21, 3500-3503.	2.6	6
13	Advancing Chemical Microbiology. <i>ACS Chemical Biology</i> , 2020, 15, 1115-1118.	3.4	1
14	Harnessing β -Lactam Antibiotics for Illumination of the Activity of Penicillin-Binding Proteins in <i>Bacillus subtilis</i> . <i>ACS Chemical Biology</i> , 2020, 15, 1242-1251.	3.4	29
15	Mechanistic Studies of Bioorthogonal ATP Analogues for Assessment of Histidine Kinase Autophosphorylation. <i>ACS Chemical Biology</i> , 2020, 15, 1252-1260.	3.4	11
16	Chemical tools for selective activity profiling of bacterial penicillin-binding proteins. <i>Methods in Enzymology</i> , 2020, 638, 27-55.	1.0	14
17	Chronic exposure to complex metal oxide nanoparticles elicits rapid resistance in <i>Shewanella oneidensis</i> MR-1. <i>Chemical Science</i> , 2019, 10, 9768-9781.	7.4	22
18	Biological impact of nanoscale lithium intercalating complex metal oxides to model bacterium <i>B. subtilis</i> . <i>Environmental Science: Nano</i> , 2019, 6, 305-314.	4.3	9

#	ARTICLE	IF	CITATIONS
19	Preferential Binding of Cytochrome <i>c</i> to Anionic Ligand-Coated Gold Nanoparticles: A Complementary Computational and Experimental Approach. ACS Nano, 2019, 13, 6856-6866.	14.6	31
20	Structure Elucidation of Macrolide Antibiotics Using MS ⁿ Analysis and Deuterium Labelling. Journal of the American Society for Mass Spectrometry, 2019, 30, 1464-1480.	2.8	4
21	<i>Streptomyces</i> Volatile Compounds Influence Exploration and Microbial Community Dynamics by Altering Iron Availability. MBio, 2019, 10, .	4.1	47
22	Silencing cryptic specialized metabolism in <i>Streptomyces</i> by the nucleoid-associated protein Lsr2. ELife, 2019, 8, .	6.0	48
23	Screening serine/threonine and tyrosine kinase inhibitors for histidine kinase inhibition. Bioorganic and Medicinal Chemistry, 2018, 26, 5322-5326.	3.0	12
24	Activity-Based Protein Profiling Methods to Study Bacteria: The Power of Small-Molecule Electrophiles. Current Topics in Microbiology and Immunology, 2018, 420, 23-48.	1.1	13
25	Exploration of the Effects of ¹³ P-Phosphate-Modified ATP Analogues on Histidine Kinase Autophosphorylation. Biochemistry, 2018, 57, 4368-4373.	2.5	13
26	Tiny Things with Enormous Impact: Nanotechnology in the Fight Against Infectious Disease. ACS Infectious Diseases, 2018, 4, 1432-1435.	3.8	15
27	Disarming the virulence arsenal of <i>Pseudomonas aeruginosa</i> by blocking two-component system signaling. Chemical Science, 2018, 9, 7332-7337.	7.4	31
28	Real-Time Visualization of <i>in Vitro</i> Transcription of a Fluorescent RNA Aptamer: An Experiment for the Upper-Division Undergraduate or First-Year Graduate Laboratory. Journal of Chemical Education, 2018, 95, 1867-1871.	2.3	13
29	Novel Electrophilic Scaffold for Imaging of Essential Penicillin-Binding Proteins in <i>Streptococcus pneumoniae</i> . ACS Chemical Biology, 2017, 12, 2849-2857.	3.4	32
30	Rational Design of Selective Adenine-Based Scaffolds for Inactivation of Bacterial Histidine Kinases. Journal of Medicinal Chemistry, 2017, 60, 8170-8182.	6.4	17
31	Mass spectrometry-based assay for the rapid detection of thiol-containing natural products. Chemical Communications, 2016, 52, 13229-13232.	4.1	21
32	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. Nature Biotechnology, 2016, 34, 828-837.	17.5	2,802
33	Progress and prospects for small-molecule probes of bacterial imaging. Nature Chemical Biology, 2016, 12, 472-478.	8.0	89
34	Thiol-ene-Enabled Detection of Thiophosphorylation as a Labeling Strategy for Phosphoproteins. Methods in Molecular Biology, 2016, 1355, 3-15.	0.9	1
35	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. ACS Central Science, 2015, 1, 117-123.	11.3	121
36	Inactivation of Multiple Bacterial Histidine Kinases by Targeting the ATP-Binding Domain. ACS Chemical Biology, 2015, 10, 328-335.	3.4	53

#	ARTICLE	IF	CITATIONS
37	A reinvigorated era of bacterial secondary metabolite discovery. <i>Current Opinion in Chemical Biology</i> , 2015, 24, 104-111.	6.1	10
38	Collision-Induced Dissociation Mass Spectrometry: A Powerful Tool for Natural Product Structure Elucidation. <i>Analytical Chemistry</i> , 2015, 87, 10668-10678.	6.5	83
39	Profiling of \hat{I}^2 -Lactam Selectivity for Penicillin-Binding Proteins in <i>Escherichia coli</i> Strain DC2. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 2785-2790.	3.2	144
40	Profiling of \hat{I}^2 -Lactam Selectivity for Penicillin-Binding Proteins in <i>Streptococcus pneumoniae</i> D39. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3548-3555.	3.2	87
41	Chemoselective enrichment as a tool to increase access to bioactive natural products: Case study borrelidin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4767-4769.	2.2	6
42	Accurate Mass MS/MS/MS Analysis of Siderophores Ferrioxamine B and E1 by Collision-Induced Dissociation Electrospray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1899-1902.	2.8	8
43	<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> D39. <i>Molecular Microbiology</i> , 2014, 94, 21-40.	2.5	88
44	Negatively-charged helices in the gas phase. <i>Chemical Communications</i> , 2014, 50, 8849.	4.1	6
45	Toward the development of solid-supported reagents for separation of alcohol-containing compounds by steric environment. <i>Tetrahedron</i> , 2014, 70, 4191-4196.	1.9	4
46	Taming of a Superbase for Selective Phenol Desilylation and Natural Product Isolation. <i>Journal of Organic Chemistry</i> , 2013, 78, 7349-7355.	3.2	15
47	Requirement of essential <i>Pbp2x</i> and <i>GpsB</i> for septal ring closure in <i>Streptococcus pneumoniae</i> D39. <i>Molecular Microbiology</i> , 2013, 90, 939-955.	2.5	103
48	Mechanistic insight into inhibition of two-component system signaling. <i>MedChemComm</i> , 2013, 4, 269-277.	3.4	14
49	PROFILE: Early Excellence in <i>Physical Organic Chemistry</i> . <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 1-1.	1.9	0
50	Plant Pigment Identification: A Classroom and Outreach Activity. <i>Journal of Chemical Education</i> , 2013, 90, 755-759.	2.3	19
51	Thiol-ene Enabled Detection of Thiophosphorylated Kinase Substrates. <i>ACS Chemical Biology</i> , 2013, 8, 1671-1676.	3.4	22
52	Integrated Metabolomics Approach Facilitates Discovery of an Unpredicted Natural Product Suite from <i>Streptomyces coelicolor</i> M145. <i>ACS Chemical Biology</i> , 2013, 8, 2009-2016.	3.4	62
53	All Signals Lost. <i>Science Translational Medicine</i> , 2013, 5, 203ps12.	12.4	16
54	Penicillin-Binding Protein Imaging Probes. <i>Current Protocols in Chemical Biology</i> , 2013, 5, 239-250.	1.7	28

#	ARTICLE	IF	CITATIONS
55	Chemoselective hydroxyl group transformation: an elusive target. <i>Molecular BioSystems</i> , 2012, 8, 2484.	2.9	40
56	Activity-Based Probe for Histidine Kinase Signaling. <i>Journal of the American Chemical Society</i> , 2012, 134, 9150-9153.	13.7	47
57	Selective Penicillin-Binding Protein Imaging Probes Reveal Substructure in Bacterial Cell Division. <i>ACS Chemical Biology</i> , 2012, 7, 1746-1753.	3.4	82
58	Activity-Based Probes for Penicillin-Binding Protein Imaging. <i>FASEB Journal</i> , 2012, 26, 1000.1.	0.5	2
59	Siloxyl Ether Functionalized Resins for Chemoselective Enrichment of Carboxylic Acids. <i>Organic Letters</i> , 2011, 13, 5652-5655.	4.6	24
60	Chemoselective enrichment for natural products discovery. <i>Chemical Science</i> , 2011, 2, 760.	7.4	36
61	Natural Products as Chemical Probes. <i>ACS Chemical Biology</i> , 2010, 5, 639-653.	3.4	189
62	A general glycomimetic strategy yields non-carbohydrate inhibitors of DC-SIGN. <i>Chemical Communications</i> , 2010, 46, 6747.	4.1	58
63	Enrichment Tags for Enhanced-Resolution Profiling of the Polar Metabolome. <i>Journal of the American Chemical Society</i> , 2007, 129, 15780-15782.	13.7	53
64	Chemoselective probes for metabolite enrichment and profiling. <i>Nature Methods</i> , 2007, 4, 429-435.	19.0	88
65	Chemical Probes of UDP-Galactopyranose Mutase. <i>Chemistry and Biology</i> , 2006, 13, 825-837.	6.0	119
66	Novel Heterocyclic Trans Olefin Analogues of N-{4-[4-(2,3-Dichlorophenyl)piperazin-1-yl]butyl}arylcarboxamides as Selective Probes with High Affinity for the Dopamine D3 Receptor. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 839-848.	6.4	119
67	A unique catalytic mechanism for UDP-galactopyranose mutase. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 539-543.	8.2	125
68	Identification of Inhibitors for UDP-Galactopyranose Mutase. <i>Journal of the American Chemical Society</i> , 2004, 126, 10532-10533.	13.7	93
69	Improved Chemical Syntheses of 1- and 5-Deazariboflavin. <i>Journal of Organic Chemistry</i> , 2004, 69, 2614-2617.	3.2	15