

Shahriar Mobashery

List of Publications by Year in descending order

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Version: 2024-02-01

352
papers

20,754
citations

11651

70
h-index

17105

122
g-index

373
all docs

373
docs citations

373
times ranked

18642
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-based inhibitor design for reshaping bacterial morphology. <i>Communications Biology</i> , 2022, 5, 395.	4.4	1
2	An Atypical ABC Transporter Is Involved in Antifungal Resistance and Host Interactions in the Pathogenic Fungus <i>Cryptococcus neoformans</i> . <i>MBio</i> , 2022, 13, .	4.1	16
3	Proteomics Identification of Targets for Intervention in Pressure Ulcers. <i>ACS Chemical Biology</i> , 2022, 17, 1357-1363.	3.4	2
4	Selective MMP-9 Inhibitor (<i>R</i>)-ND-336 Alone or in Combination with Linezolid Accelerates Wound Healing in Infected Diabetic Mice. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 107-117.	4.9	17
5	Unconventional Antibacterials and Adjuvants. <i>Accounts of Chemical Research</i> , 2021, 54, 917-929.	15.6	20
6	Turnover Chemistry and Structural Characterization of the Cj0843c Lytic Transglycosylase of <i>Campylobacter jejuni</i>. <i>Biochemistry</i> , 2021, 60, 1133-1144.	2.5	3
7	Bacterial Cell Wall: Morphology and Biochemistry. , 2021, , 167-204.		5
8	Metabolism of the Selective Matrix Metalloproteinase-9 Inhibitor (<i>R</i>)-ND-336. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 1204-1213.	4.9	4
9	Structure-Activity Relationship for the Picolinamide Antibacterials that Selectively Target <i>Clostridioides difficile</i> . <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 991-995.	2.8	0
10	Turnover chemistry and structural characterization of the Cj0843c lytic transglycosylase of <i>Campylobacter jejuni</i> . <i>FASEB Journal</i> , 2021, 35, .	0.5	0
11	Production of Proteins of the SARS-CoV-2 Proteome for Drug Discovery. <i>ACS Omega</i> , 2021, 6, 19983-19994.	3.5	6
12	Integrative structural biology of the penicillin-binding protein-1 from <i>Staphylococcus aureus</i> , an essential component of the divisome machinery. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5392-5405.	4.1	2
13	Î²-Lactams against the Fortress of the Gram-Positive <i>Staphylococcus aureus</i> Bacterium. <i>Chemical Reviews</i> , 2021, 121, 3412-3463.	47.7	52
14	Horizontal-Acquisition of a Promiscuous Peptidoglycan-Recycling Enzyme Enables Aphids To Influence Symbiont Cell Wall Metabolism. <i>MBio</i> , 2021, 12, e0263621.	4.1	6
15	Structure-Activity Relationship for the Oxadiazole Class of Antibacterials. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 322-326.	2.8	18
16	Constructing and deconstructing the bacterial cell wall. <i>Protein Science</i> , 2020, 29, 629-646.	7.6	41
17	Catalytic Cycle of Glycoside Hydrolase BglX from <i>Pseudomonas aeruginosa</i> and Its Implications for Biofilm Formation. <i>ACS Chemical Biology</i> , 2020, 15, 189-196.	3.4	11
18	Hyperbaric oxygen therapy accelerates wound healing in diabetic mice by decreasing active matrix metalloproteinase-9. <i>Wound Repair and Regeneration</i> , 2020, 28, 194-201.	3.0	15

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19	Discovery of a Potent Picolinamide Antibacterial Active against <i>Clostridioides difficile</i> . ACS Infectious Diseases, 2020, 6, 2362-2368.	3.8	8
20	Peptidoglycan reshaping by a noncanonical peptidase for helical cell shape in <i>Campylobacter jejuni</i> . Nature Communications, 2020, 11, 458.	12.8	14
21	Fluorescence Assessment of the AmpR-Signaling Network of <i>Pseudomonas aeruginosa</i> to Exposure to β -Lactam Antibiotics. ACS Chemical Biology, 2020, 15, 1184-1194.	3.4	7
22	Exploration of the Structural Space in 4(3 <i>H</i>)-Quinazolinone Antibacterials. Journal of Medicinal Chemistry, 2020, 63, 5287-5296.	6.4	28
23	A type VI secretion system delivers a cell wall amidase to target bacterial competitors. Molecular Microbiology, 2020, 114, 308-321.	2.5	25
24	Cinnamitrile Adjuvants Restore Susceptibility to β -Lactams against Methicillin-Resistant <i>Staphylococcus aureus</i> . ACS Medicinal Chemistry Letters, 2019, 10, 1148-1153.	2.8	10
25	Susceptibility of Methicillin-Resistant <i>Staphylococcus aureus</i> to Five Quinazolinone Antibacterials. Antimicrobial Agents and Chemotherapy, 2019, 64, .	3.2	2
26	The Quinazolinone Allosteric Inhibitor of PBP 2a Synergizes with Piperacillin and Tazobactam against Methicillin-Resistant <i>Staphylococcus aureus</i> . Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	40
27	Structural basis of denuded glycan recognition by SPOR domains in bacterial cell division. Nature Communications, 2019, 10, 5567.	12.8	29
28	Slt, MltD, and MltG of <i>Pseudomonas aeruginosa</i> as Targets of Bulgecin A in Potentiation of β -Lactam Antibiotics. ACS Chemical Biology, 2019, 14, 296-303.	3.4	28
29	Exolytic and endolytic turnover of peptidoglycan by lytic transglycosylase Slt of <i>Pseudomonas aeruginosa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4393-4398.	7.1	31
30	Potentiation of the activity of β -lactam antibiotics by farnesol and its derivatives. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 642-645.	2.2	18
31	Allostery, Recognition of Nascent Peptidoglycan, and Cross-linking of the Cell Wall by the Essential Penicillin-Binding Protein 2x of <i>Streptococcus pneumoniae</i> . ACS Chemical Biology, 2018, 13, 694-702.	3.4	29
32	Total Syntheses of Bulgecins A, B, and C and Their Bactericidal Potentiation of the β -Lactam Antibiotics. ACS Infectious Diseases, 2018, 4, 860-867.	3.8	27
33	Mechanism of the <i>Escherichia coli</i> MltE lytic transglycosylase, the cell-wall-penetrating enzyme for Type VI secretion system assembly. Scientific Reports, 2018, 8, 4110.	3.3	27
34	Structure-activity relationship of the cinnamamide family of antibiotic potentiators for methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). MedChemComm, 2018, 9, 2008-2016.	3.4	5
35	MMP-9 inhibitors impair learning in spontaneously hypertensive rats. PLoS ONE, 2018, 13, e0208357.	2.5	10
36	A Structural Dissection of the Active Site of the Lytic Transglycosylase MltE from <i>Escherichia coli</i> . Biochemistry, 2018, 57, 6090-6098.	2.5	2

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37	A positive positive to negative. Nature Chemistry, 2018, 10, 998-1000.	13.6	2
38	Validation of Matrix Metalloproteinase-9 (MMP-9) as a Novel Target for Treatment of Diabetic Foot Ulcers in Humans and Discovery of a Potent and Selective Small-Molecule MMP-9 Inhibitor That Accelerates Healing. Journal of Medicinal Chemistry, 2018, 61, 8825-8837.	6.4	82
39	Cell-Wall Recycling of the Gram-Negative Bacteria and the Nexus to Antibiotic Resistance. Chemical Reviews, 2018, 118, 5952-5984.	47.7	154
40	Expression of active matrix metalloproteinase-9 as a likely contributor to the clinical failure of acclerastide in treatment of diabetic foot ulcers. European Journal of Pharmacology, 2018, 834, 77-83.	3.5	11
41	Activities of Oxadiazole Antibacterials against Staphylococcus aureus and Other Gram-Positive Bacteria. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	11
42	In Search of Selectivity in Inhibition of ADAM10. ACS Medicinal Chemistry Letters, 2018, 9, 708-713.	2.8	5
43	Early Abrogation of Gelatinase Activity Extends the Time Window for tPA Thrombolysis after Embolic Focal Cerebral Ischemia in Mice. ENeuro, 2018, 5, ENEURO.0391-17.2018.	1.9	16
44	Transferase Versus Hydrolase: The Role of Conformational Flexibility in Reaction Specificity. Structure, 2017, 25, 295-304.	3.3	23
45	Conformational Dynamics in Penicillin-Binding Protein 2a of Methicillin-Resistant <i>Staphylococcus aureus</i> , Allosteric Communication Network and Enablement of Catalysis. Journal of the American Chemical Society, 2017, 139, 2102-2110.	13.7	65
46	Muropeptide Binding and the X-ray Structure of the Effector Domain of the Transcriptional Regulator AmpR of <i>Pseudomonas aeruginosa</i> . Journal of the American Chemical Society, 2017, 139, 1448-1451.	13.7	42
47	From Genome to Proteome to Elucidation of Reactions for All Eleven Known Lytic Transglycosylases from <i>Pseudomonas aeruginosa</i> . Angewandte Chemie, 2017, 129, 2779-2783.	2.0	5
48	From Genome to Proteome to Elucidation of Reactions for All Eleven Known Lytic Transglycosylases from <i>Pseudomonas aeruginosa</i> . Angewandte Chemie - International Edition, 2017, 56, 2735-2739.	13.8	50
49	Catalytic Cycle of the <i>N</i> -Acetylglucosaminidase NagZ from <i>Pseudomonas aeruginosa</i> . Journal of the American Chemical Society, 2017, 139, 6795-6798.	13.7	28
50	Exploitation of Conformational Dynamics in Imparting Selective Inhibition for Related Matrix Metalloproteinases. ACS Medicinal Chemistry Letters, 2017, 8, 654-659.	2.8	6
51	Deciphering the Nature of Enzymatic Modifications of Bacterial Cell Walls. ChemBioChem, 2017, 18, 1696-1702.	2.6	12
52	Allosteric Inhibition of Bacterial Targets: An Opportunity for Discovery of Novel Antibacterial Classes. Topics in Medicinal Chemistry, 2017, , 119-147.	0.8	7
53	Whole-Genome Shotgun Sequencing of Two $\hat{1}^2$ -Proteobacterial Species in Search of the Bulgecin Biosynthetic Cluster. ACS Chemical Biology, 2017, 12, 2552-2557.	3.4	28
54	Discovery of Mechanism-Based Inactivators for Human Pancreatic Carboxypeptidase A from a Focused Synthetic Library. ACS Medicinal Chemistry Letters, 2017, 8, 1122-1127.	2.8	8

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55	X-ray Structure of Catenated Lytic Transglycosylase SltB1. <i>Biochemistry</i> , 2017, 56, 6317-6320.	2.5	9
56	Synthesis and shift-reagent-assisted full NMR assignment of bacterial (Z8,E2,Î%))-undecaprenol. <i>Chemical Communications</i> , 2017, 53, 12774-12777.	4.1	5
57	Lytic transglycosylases: concinnity in concision of the bacterial cell wall. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2017, 52, 503-542.	5.2	120
58	The crystal structure of the major pneumococcal autolysin LytA in complex with a large peptidoglycan fragment reveals the pivotal role of glycans for lytic activity. <i>Molecular Microbiology</i> , 2016, 101, 954-967.	2.5	14
59	<i>In Vitro</i> and <i>In Vivo</i> Synergy of the Oxadiazole Class of Antibacterials with Î ² -Lactams. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5581-5588.	3.2	29
60	Muropeptides in <i>Pseudomonas aeruginosa</i> and their Role as Elicitors of Î ² -Lactam Antibiotic Resistance. <i>Angewandte Chemie</i> , 2016, 128, 6996-7000.	2.0	3
61	Muropeptides in <i>Pseudomonas aeruginosa</i> and their Role as Elicitors of Î ² -Lactam Antibiotic Resistance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6882-6886.	13.8	43
62	Orthologous and Paralogous AmpD Peptidoglycan Amidases from Gram-Negative Bacteria. <i>Microbial Drug Resistance</i> , 2016, 22, 470-476.	2.0	23
63	Turnover of Bacterial Cell Wall by SltB3, a Multidomain Lytic Transglycosylase of <i>Pseudomonas aeruginosa</i> . <i>ACS Chemical Biology</i> , 2016, 11, 1525-1531.	3.4	16
64	The Natural Product Essramycin and Three of Its Isomers Are Devoid of Antibacterial Activity. <i>Journal of Natural Products</i> , 2016, 79, 1219-1222.	3.0	9
65	Structure-Activity Relationship for the 4(3 <i>H</i>)-Quinazolinone Antibacterials. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5011-5021.	6.4	111
66	Î ² -Lactam Resistance Mechanisms: Gram-Positive Bacteria and <i>Mycobacterium tuberculosis</i> . <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a025221.	6.2	56
67	Lytic transglycosylases LtgA and LtgD perform distinct roles in remodeling, recycling and releasing peptidoglycan in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2016, 102, 865-881.	2.5	38
68	Selective Inhibition of MMP-2 Does Not Alter Neurological Recovery after Spinal Cord Injury. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1482-1487.	3.5	12
69	Activation by Allostery in Cell-Wall Remodeling by a Modular Membrane-Bound Lytic Transglycosylase from <i>Pseudomonas aeruginosa</i> . <i>Structure</i> , 2016, 24, 1729-1741.	3.3	27
70	The oxadiazole antibacterials. <i>Current Opinion in Microbiology</i> , 2016, 33, 13-17.	5.1	40
71	Amidase Activity of AmiC Controls Cell Separation and Stem Peptide Release and Is Enhanced by NlpD in <i>Neisseria gonorrhoeae</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 10916-10933.	3.4	26
72	Three-dimensional QSAR analysis and design of new 1,2,4-oxadiazole antibacterials. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1011-1015.	2.2	48

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73	Endless resistance. Endless antibiotics?. MedChemComm, 2016, 7, 37-49.	3.4	39
74	Structural Basis of the Heterodimer Formation between Cell Shape-Determining Proteins Csd1 and Csd2 from <i>Helicobacter pylori</i> . PLoS ONE, 2016, 11, e0164243.	2.5	17
75	Substrate recognition and catalysis by LytB, a pneumococcal peptidoglycan hydrolase involved in virulence. Scientific Reports, 2015, 5, 16198.	3.3	30
76	Bacterial Cell Wall: Morphology and Biochemistry. , 2015, , 221-264.		3
77	The external PASTA domain of the essential serine/threonine protein kinase PknB regulates mycobacterial growth. Open Biology, 2015, 5, 150025.	3.6	22
78	Structure of Csd3 from <i>Helicobacter pylori</i> , a cell shape-determining metallopeptidase. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 675-686.	2.5	21
79	The Cell Shape-determining Csd6 Protein from <i>Helicobacter pylori</i> Constitutes a New Family of L,d-Carboxypeptidase. Journal of Biological Chemistry, 2015, 290, 25103-25117.	3.4	34
80	Investigation of Signal Transduction Routes within the Sensor/Transducer Protein BlaR1 of <i>Staphylococcus aureus</i> . Biochemistry, 2015, 54, 1600-1610.	2.5	25
81	Discovery of Antibiotic (<i>E</i>)-3-(3-Carboxyphenyl)-2-(4-cyanostyryl)quinazolin-4(3<i>H</i>)-one. Journal of the American Chemical Society, 2015, 137, 1738-1741.	13.7	116
82	Structure-Activity Relationship for the Oxadiazole Class of Antibiotics. Journal of Medicinal Chemistry, 2015, 58, 1380-1389.	6.4	100
83	Catalytic Spectrum of the Penicillin-Binding Protein 4 of <i>Pseudomonas aeruginosa</i> , a Nexus for the Induction of β -Lactam Antibiotic Resistance. Journal of the American Chemical Society, 2015, 137, 190-200.	13.7	32
84	Exploration of the structure-activity relationship of 1,2,4-oxadiazole antibiotics. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4854-4857.	2.2	39
85	Regioselective Control of the S _N Ar Amination of 5-Substituted-2,4-Dichloropyrimidines Using Tertiary Amine Nucleophiles. Journal of Organic Chemistry, 2015, 80, 7757-7763.	3.2	18
86	The Tipper-Strominger Hypothesis and Triggering of Allostery in Penicillin-Binding Protein 2a of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). Journal of the American Chemical Society, 2015, 137, 6500-6505.	13.7	26
87	Synthesis and Evaluation of 1,2,4-Triazolo[1,5- <i>a</i>]pyrimidines as Antibacterial Agents Against <i>Enterococcus faecium</i> . Journal of Medicinal Chemistry, 2015, 58, 4194-4203.	6.4	113
88	The Allosteric Site for the Nascent Cell Wall in Penicillin-Binding Protein 2a: An Achilles' Heel of Methicillin-Resistant <i>Staphylococcus aureus</i> . Current Medicinal Chemistry, 2015, 22, 1678-1686.	2.4	32
89	Water-Soluble MMP-9 Inhibitor Reduces Lesion Volume after Severe Traumatic Brain Injury. ACS Chemical Neuroscience, 2015, 6, 1658-1664.	3.5	20
90	AAC(3)-XI, a New Aminoglycoside 3- <i>N</i> -Acetyltransferase from <i>Corynebacterium striatum</i> . Antimicrobial Agents and Chemotherapy, 2015, 59, 5647-5653.	3.2	14

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91	Synergistic, collaterally sensitive β -lactam combinations suppress resistance in MRSA. <i>Nature Chemical Biology</i> , 2015, 11, 855-861.	8.0	126
92	Phosphorylation of BlaR1 in Manifestation of Antibiotic Resistance in Methicillin-Resistant <i>Staphylococcus aureus</i> and Its Abrogation by Small Molecules. <i>ACS Infectious Diseases</i> , 2015, 1, 454-459.	3.8	31
93	Acceleration of diabetic wound healing using a novel protease-anti-protease combination therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15226-15231.	7.1	126
94	Chapter 3. The β -Lactam (Azetidin-2-one) as a Privileged Ring in Medicinal Chemistry. <i>RSC Drug Discovery Series</i> , 2015, , 64-97.	0.3	4
95	Chapter 10. Thiirane Class of Gelatinase Inhibitors as a Privileged Template that Crosses the Blood-Brain Barrier. <i>RSC Drug Discovery Series</i> , 2015, , 262-286.	0.3	1
96	Structural and Functional Insights into Peptidoglycan Access for the Lytic Amidase LytA of <i>Streptococcus pneumoniae</i> . <i>MBio</i> , 2014, 5, e01120-13.	4.1	48
97	Penicillin-binding protein 2a of methicillin-resistant <i>Staphylococcus aureus</i> . <i>IUBMB Life</i> , 2014, 66, 572-577.	3.4	176
98	Protonation states of active-site lysines of penicillin-binding protein 6 from <i>Escherichia coli</i> and the mechanistic implications. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 1348-1358.	2.6	9
99	Structural basis for the recognition of muramyltripeptide by <i>Helicobacter pylori</i> Csd4, a D ₁ L ₁ -carboxypeptidase controlling the helical cell shape. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2800-2812.	2.5	20
100	Enantiomers of a selective gelatinase inhibitor: (R)- and (S)-2-[(4-phenoxyphenyl)sulfonylmethyl]thiirane. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 1003-1006.	0.5	1
101	A Chemical Biological Strategy to Facilitate Diabetic Wound Healing. <i>ACS Chemical Biology</i> , 2014, 9, 105-110.	3.4	75
102	Discovery of a New Class of Non- β -lactam Inhibitors of Penicillin-Binding Proteins with Gram-Positive Antibacterial Activity. <i>Journal of the American Chemical Society</i> , 2014, 136, 3664-3672.	13.7	136
103	Characterization of a selective inhibitor for matrix metalloproteinase-8 (MMP-8). <i>MedChemComm</i> , 2014, 5, 1381-1383.	3.4	10
104	Regulation of the Expression of the β -Lactam Antibiotic-Resistance Determinants in Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). <i>Biochemistry</i> , 2014, 53, 1548-1550.	2.5	39
105	Glycosylation at Asn211 Regulates the Activation State of the Discoidin Domain Receptor 1 (DDR1). <i>Journal of Biological Chemistry</i> , 2014, 289, 9275-9287.	3.4	33
106	Mutations in <i>mmpL</i> and in the Cell Wall Stress Stimulon Contribute to Resistance to Oxadiazole Antibiotics in Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5841-5847.	3.2	12
107	Disruption of Allosteric Response as an Unprecedented Mechanism of Resistance to Antibiotics. <i>Journal of the American Chemical Society</i> , 2014, 136, 9814-9817.	13.7	93
108	Structure and Cell Wall Cleavage by Modular Lytic Transglycosylase MltC of <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2014, 9, 2058-2066.	3.4	41

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109	Revealing Cell-Surface Intramolecular Interactions in the BlaR1 Protein of Methicillin-Resistant <i>Staphylococcus aureus</i> by NMR Spectroscopy. <i>Biochemistry</i> , 2014, 53, 10-12.	2.5	13
110	The sentinel role of peptidoglycan recycling in the β -lactam resistance of the Gram-negative Enterobacteriaceae and <i>Pseudomonas aeruginosa</i> . <i>Bioorganic Chemistry</i> , 2014, 56, 41-48.	4.1	70
111	<i>O</i> -Phenyl Carbamate and Phenyl Urea Thiiranes as Selective Matrix Metalloproteinase-2 Inhibitors that Cross the Blood-Brain Barrier. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8139-8150.	6.4	33
112	Use of Silver Carbonate in the Wittig Reaction. <i>Journal of Organic Chemistry</i> , 2013, 78, 12224-12228.	3.2	19
113	Cell-Wall Remodeling by the Zinc-Protease AmpDh3 from <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 12604-12607.	13.7	41
114	Structural Basis for Carbapenemase Activity of the OXA-23 β -Lactamase from <i>Acinetobacter baumannii</i> . <i>Chemistry and Biology</i> , 2013, 20, 1107-1115.	6.0	92
115	Discoidin Domain Receptors: Unique Receptor Tyrosine Kinases in Collagen-mediated Signaling. <i>Journal of Biological Chemistry</i> , 2013, 288, 7430-7437.	3.4	182
116	Bacterial cell-wall recycling. <i>Annals of the New York Academy of Sciences</i> , 2013, 1277, 54-75.	3.8	246
117	Reactions of the Three AmpD Enzymes of <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 4950-4953.	13.7	50
118	Reactions of All <i>Escherichia coli</i> Lytic Transglycosylases with Bacterial Cell Wall. <i>Journal of the American Chemical Society</i> , 2013, 135, 3311-3314.	13.7	111
119	Reaction Products and the X-ray Structure of AmpDh2, a Virulence Determinant of <i>Pseudomonas aeruginosa</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 10318-10321.	13.7	38
120	Structural Analysis of the Role of <i>Pseudomonas aeruginosa</i> Penicillin-Binding Protein 5 in β -Lactam Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3137-3146.	3.2	40
121	Shedding of Discoidin Domain Receptor 1 by Membrane-type Matrix Metalloproteinases. <i>Journal of Biological Chemistry</i> , 2013, 288, 12114-12129.	3.4	69
122	How allosteric control of <i>Staphylococcus aureus</i> penicillin binding protein 2a enables methicillin resistance and physiological function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16808-16813.	7.1	235
123	Penicillin-Binding Protein 5 of <i>Escherichia coli</i> . , 2013, , 3474-3480.		0
124	Selective Inhibition of Matrix Metalloproteinase-9 Attenuates Secondary Damage Resulting from Severe Traumatic Brain Injury. <i>PLoS ONE</i> , 2013, 8, e76904.	2.5	95
125	Mechanism of anchoring of OmpA protein to the cell wall peptidoglycan of the gram-negative bacterial outer membrane. <i>FASEB Journal</i> , 2012, 26, 219-228.	0.5	164
126	An Amino Acid Position at Crossroads of Evolution of Protein Function. <i>Journal of Biological Chemistry</i> , 2012, 287, 8232-8241.	3.4	14

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127	Pharmacological Stabilization of Intracranial Aneurysms in Mice. <i>Stroke</i> , 2012, 43, 2450-2456.	2.0	81
128	Antibiotics as physiological stress inducers and bacterial response to the challenge. <i>Current Opinion in Microbiology</i> , 2012, 15, 553-554.	5.1	4
129	Structure-Activity Relationship for Thiirane-Based Gelatinase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 490-495.	2.8	34
130	Synthesis and NMR Characterization of (<i>Z</i>,<i>Z</i>,<i>Z</i>,<i>Z</i>,<i>E</i>,<i>E</i>,%)-Heptaprenol. <i>Journal of the American Chemical Society</i> , 2012, 134, 13881-13888.	13.7	12
131	Messenger Functions of the Bacterial Cell Wall-derived Muropeptides. <i>Biochemistry</i> , 2012, 51, 2974-2990.	2.5	80
132	Dissection of Events in the Resistance to β -Lactam Antibiotics Mediated by the Protein BlaR1 from <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 2012, 51, 4642-4649.	2.5	47
133	Structural Basis for Progression toward the Carbapenemase Activity in the GES Family of β -Lactamases. <i>Journal of the American Chemical Society</i> , 2012, 134, 19512-19515.	13.7	51
134	Selective Gelatinase Inhibitor Neuroprotective Agents Cross the Blood-Brain Barrier. <i>ACS Chemical Neuroscience</i> , 2012, 3, 730-736.	3.5	30
135	Inhibition of MMP-9 by a selective gelatinase inhibitor protects neurovasculature from embolic focal cerebral ischemia. <i>Molecular Neurodegeneration</i> , 2012, 7, 21.	10.8	93
136	Inhibitors for Bacterial Cell-Wall Recycling. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 238-242.	2.8	36
137	High-Resolution Crystal Structure of MltE, an Outer Membrane-Anchored Endolytic Peptidoglycan Lytic Transglycosylase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2011, 50, 2384-2386.	2.5	39
138	Resistance to the Third-Generation Cephalosporin Ceftazidime by a Deacylation-Deficient Mutant of the TEM β -Lactamase by the Uncommon Covalent-Trapping Mechanism. <i>Biochemistry</i> , 2011, 50, 6387-6395.	2.5	17
139	Selective Water-Soluble Gelatinase Inhibitor Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6676-6690.	6.4	44
140	A Computational Evaluation of the Mechanism of Penicillin-Binding Protein-Catalyzed Cross-Linking of the Bacterial Cell Wall. <i>Journal of the American Chemical Society</i> , 2011, 133, 5274-5283.	13.7	27
141	Tackling antibiotic resistance. <i>Nature Reviews Microbiology</i> , 2011, 9, 894-896.	28.6	919
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