

Vijay Kumar

List of Publications by Citations

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17
papers

230
citations

8
h-index

15
g-index

18
ext. papers

306
ext. citations

4.8
avg, IF

2.65
L-index

#	Paper	IF	Citations
17	Strategic Approaches to Overcome Resistance against Gram-Negative Pathogens Using β Lactamase Inhibitors and β Lactam Enhancers: Activity of Three Novel Diazabicyclooctanes WCK 5153, Zidebactam (WCK 5107), and WCK 4234. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 4067-4086	8.3	77
16	Insights into BAY 60-2770 activation and S-nitrosylation-dependent desensitization of soluble guanylyl cyclase via crystal structures of homologous nostoc H-NOX domain complexes. <i>Biochemistry</i> , 2013 , 52, 3601-8	3.2	45
15	Targeting Multidrug-Resistant spp.: Sulbactam and the Diazabicyclooctenone β Lactamase Inhibitor ETX2514 as a Novel Therapeutic Agent. <i>MBio</i> , 2019 , 10,	7.8	35
14	Insights into soluble guanylyl cyclase activation derived from improved heme-mimetics. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 8948-8952	8.3	13
13	A β Lactam Siderophore Antibiotic Effective against Multidrug-Resistant Gram-Negative Bacilli. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 5990-6002	8.3	10
12	Discovery of the Soluble Guanylate Cyclase Activator Runcaciguat (BAY 1101042). <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 5323-5344	8.3	10
11	Structural Characterization of Diazabicyclooctane β Lactam "Enhancers" in Complex with Penicillin-Binding Proteins PBP2 and PBP3 of <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2021 , 12,	7.8	10
10	A β Lactam siderophore antibiotic effective against multidrug-resistant <i>Pseudomonas aeruginosa</i> , <i>Klebsiella pneumoniae</i> , and <i>Acinetobacter</i> spp. <i>European Journal of Medicinal Chemistry</i> , 2021 , 220, 113436	6.8	8
9	Structural Insights into Ceftobiprole Inhibition of <i>Pseudomonas aeruginosa</i> Penicillin-Binding Protein 3. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	7
8	Structural studies and molecular dynamics simulations suggest a processive mechanism of exolytic lytic transglycosylase from <i>Campylobacter jejuni</i> . <i>PLoS ONE</i> , 2018 , 13, e0197136	3.7	7
7	Structural Analysis of The OXA-48 Carbapenemase Bound to A "Poor" Carbapenem Substrate, Doripenem. <i>Antibiotics</i> , 2019 , 8,	4.9	5
6	Structural analysis of the boronic acid β Lactamase inhibitor vaborbactam binding to <i>Pseudomonas aeruginosa</i> penicillin-binding protein 3. <i>PLoS ONE</i> , 2021 , 16, e0258359	3.7	2
5	Structural Characterization of the D179N and D179Y Variants of KPC-2 β Lactamase: β Loop Destabilization as a Mechanism of Resistance to Ceftazidime-Avibactam.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , e0241421	5.9	1
4	1256. In Vivo Activity and Structural Characterization of a New Generation β Lactam Siderophore Antibiotic Against Multidrug-Resistant Gram-Negative Bacteria and <i>Acinetobacter</i> spp. <i>Open Forum Infectious Diseases</i> , 2020 , 7, S645-S645	1	
3	1445. Deciphering the Role of the Y221H β loop Substitution in <i>Pseudomonas</i> -derived Cephalosporinase (PDC) in Cephalosporin Resistance. <i>Open Forum Infectious Diseases</i> , 2020 , 7, S725-S726 ¹		
2	Structural and Mechanistic Insights into the Doughnut-Shaped Lytic Transglycosylase from <i>Campylobacter jejuni</i> . <i>FASEB Journal</i> , 2018 , 32, 527.5	0.9	
1	Turnover Chemistry and Structural Characterization of the Cj0843c Lytic Transglycosylase of. <i>Biochemistry</i> , 2021 , 60, 1133-1144	3.2	

