Vijay Kumar

List of Publications by Citations

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. *Journal of Medicinal Chemistry*, **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. *Biochemistry*, **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. *MBio*, **2019**, 10,	7.8	35
14	Insights into soluble guanylyl cyclase activation derived from improved heme-mimetics. *Journal of Medicinal Chemistry*, **2013**, 56, 8948-8952	8.3	13
13	A β-Lactam Siderophore Antibiotic Effective against Multidrug-Resistant Gram-Negative Bacilli. *Journal of Medicinal Chemistry*, **2020**, 63, 5990-6002	8.3	10
12	Discovery of the Soluble Guanylate Cyclase Activator Runcaciguat (BAY 1101042). *Journal of Medicinal Chemistry*, **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 Pseudomonas aeruginosa. *MBio*, **2021**, 12,	7.8	10
10	A β-lactam siderophore antibiotic effective against multidrug-resistant Pseudomonas aeruginosa, Klebsiella pneumoniae, and Acinetobacter spp. *European Journal of Medicinal Chemistry*, **2021**, 220, 113436	6.8	8
9	Structural Insights into Ceftobiprole Inhibition of Pseudomonas aeruginosa Penicillin-Binding Protein 3. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	7
8	Structural studies and molecular dynamics simulations suggest a processive mechanism of exolytic lytic transglycosylase from Campylobacter jejuni. *PLoS ONE*, **2018**, 13, e0197136	3.7	7
7	Structural Analysis of The OXA-48 Carbapenemase Bound to A "Poor" Carbapenem Substrate, Doripenem. *Antibiotics*, **2019**, 8,	4.9	5
6	Structural analysis of the boronic acid β-lactamase inhibitor vaborbactam binding to Pseudomonas aeruginosa penicillin-binding protein 3. *PLoS ONE*, **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.. *Antimicrobial Agents and Chemotherapy*, **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 Acinetobacter spp. *Open Forum Infectious Diseases*, **2020**, 7, S645-S645	1	
3	1445. Deciphering the Role of the Y221H β-loop Substitution in Pseudomonas-derived Cephalosporinase (PDC) in Cephalosporin Resistance. *Open Forum Infectious Diseases*, **2020**, 7, S725-S726	1	
2	Structural and Mechanistic Insights into the Doughnut-Shaped Lytic Transglycosylase from Campylobacter jejuni. *FASEB Journal*, **2018**, 32, 527.5	0.9	
1	Turnover Chemistry and Structural Characterization of the Cj0843c Lytic Transglycosylase of. *Biochemistry*, **2021**, 60, 1133-1144	3.2	