Vijay Kumar

List of Publications by Year
in descending order

19	444	855147 10	947420 15
papers	citations	h-index	g-index

19	19	19	826
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strategic Approaches to Overcome Resistance against Gram-Negative Pathogens Using Î²-Lactamase Inhibitors and Î²-Lactam Enhancers: Activity of Three Novel Diazabicyclooctanes WCK 5153, Zidebactam (WCK 5107), and WCK 4234. Journal of Medicinal Chemistry, 2018, 61, 4067-4086.	6.6	123
2	Targeting Multidrug-Resistant Acinetobacter spp.: Sulbactam and the Diazabicyclooctenone Î²-Lactamase Inhibitor ETX2514 as a Novel Therapeutic Agent. MBio, 2019, 10, .	4.4	67
3	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, 3601-3608.	2.6	54
4	Discovery of the Soluble Guanylate Cyclase Activator Runcaciguat (BAY 1101042). Journal of Medicinal Chemistry, 2021, 64, 5323-5344.	6.6	41
5	Structural Characterization of the D179N and D179Y Variants of KPC-2 Î²-Lactamase: Î©-Loop Destabilization as a Mechanism of Resistance to Ceftazidime-Avibactam. Antimicrobial Agents and Chemotherapy, 2022, 66, e0241421.	3.4	27
6	Structural Characterization of Diazabicyclooctane Î²-Lactam â€œEnhancersâ€•in Complex with Penicillin-Binding Proteins PBP2 and PBP3 of Pseudomonas aeruginosa. MBio, 2021, 12, .	4.4	26
7	A Î³-Lactam Siderophore Antibiotic Effective against Multidrug-Resistant Gram-Negative Bacilli. Journal of Medicinal Chemistry, 2020, 63, 5990-6002.	6.6	24
8	Insights into Soluble Guanylyl Cyclase Activation Derived from Improved Heme-Mimetics. Journal of Medicinal Chemistry, 2013, 56, 8948-8952.	6.6	19
9	A Î³-lactam siderophore antibiotic effective against multidrug-resistant Pseudomonas aeruginosa, Klebsiella pneumoniae, and Acinetobacter spp.. European Journal of Medicinal Chemistry, 2021, 220, 113436.	5.7	16
10	Structural studies and molecular dynamics simulations suggest a processive mechanism of exolytic lytic transglycosylase from Campylobacter jejuni. PLoS ONE, 2018, 13, e0197136.	2.5	12
11	Structural Analysis of The OXA-48 Carbapenemase Bound to A â€œPoorâ€•Carbapenem Substrate, Doripenem. Antibiotics, 2019, 8, 145.	3.8	10
12	Structural analysis of the boronic acid Î²-lactamase inhibitor vaborbactam binding to Pseudomonas aeruginosa penicillin-binding protein 3. PLoS ONE, 2021, 16, e0258359.	2.5	10
13	Structural Insights into Ceftobiprole Inhibition of Pseudomonas aeruginosa Penicillin-Binding Protein 3. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.4	9
14	Turnover Chemistry and Structural Characterization of the Cj0843c Lytic Transglycosylase of Campylobacter jejuni. Biochemistry, 2021, 60, 1133-1144.	2.6	5
15	Natural protein engineering in the Î©-loop: the role of Y221 in ceftazidime and ceftolozane resistance in Pseudomonas -derived cephalosporinase. Antimicrobial Agents and Chemotherapy, 2023, 67, .	3.4	1
16	Exploring a novel Class A Î²â€Łactamase Inhibitor against the Class C Î²â€Łactamase Pseudomonas â€Derived Cephalosporinase (PDC). FASEB Journal, 2021, 35, .	0.5	0
17	Structural and Mechanistic Insights into the Doughnutâ€Shaped Lytic Transglycosylase from Campylobacter jejuni. FASEB Journal, 2018, 32, 527.5.	0.5	0
18	1256. In Vivo Activity and Structural Characterization of a New Generation Î³-Lactam Siderophore Antibiotic Against Multidrug-Resistant Gram-Negative Bacteria and Acinetobacter spp. Open Forum Infectious Diseases, 2020, 7, S645-S645.	0.9	0

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19	1445. Deciphering the Role of the Y221H Î©-loop Substitution in Pseudomonas-derived Cephalosporinase (PDC) in Cephalosporin Resistance. Open Forum Infectious Diseases, 2020, 7, S725-S726.	0.9	0