

Robert A Bonomo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3975696/robert-a-bonomo-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

309
papers

17,215
citations

65
h-index

122
g-index

357
ext. papers

21,530
ext. citations

6.7
avg, IF

7.15
L-index

#	Paper	IF	Citations
309	Three decades of beta-lactamase inhibitors. <i>Clinical Microbiology Reviews</i> , 2010 , 23, 160-201	34	1115
308	Clinical epidemiology of the global expansion of <i>Klebsiella pneumoniae</i> carbapenemases. <i>Lancet Infectious Diseases</i> , 2013 , 13, 785-96	25.5	1030
307	Global challenge of multidrug-resistant <i>Acinetobacter baumannii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2007 , 51, 3471-84	5.9	835
306	Carbapenems: past, present, and future. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 4943-60	5.9	752
305	Mechanisms of multidrug resistance in <i>Acinetobacter</i> species and <i>Pseudomonas aeruginosa</i> . <i>Clinical Infectious Diseases</i> , 2006 , 43 Suppl 2, S49-56	11.6	453
304	Clinical and Pathophysiological Overview of <i>Acinetobacter</i> Infections: a Century of Challenges. <i>Clinical Microbiology Reviews</i> , 2017 , 30, 409-447	34	441
303	Analysis of antibiotic resistance genes in multidrug-resistant <i>Acinetobacter</i> sp. isolates from military and civilian patients treated at the Walter Reed Army Medical Center. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 4114-23	5.9	365
302	Comparative genome sequence analysis of multidrug-resistant <i>Acinetobacter baumannii</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 8053-64	3.5	348
301	Resistance to colistin in <i>Acinetobacter baumannii</i> associated with mutations in the PmrAB two-component system. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 3628-34	5.9	322
300	Ceftazidime/Avibactam and Ceftolozane/Tazobactam: Second-generation β -Lactam/ β -Lactamase Inhibitor Combinations. <i>Clinical Infectious Diseases</i> , 2016 , 63, 234-41	11.6	322
299	Carbapenemase-producing <i>Klebsiella pneumoniae</i> : molecular and genetic decoding. <i>Trends in Microbiology</i> , 2014 , 22, 686-96	12.4	281
298	"Stormy waters ahead": global emergence of carbapenemases. <i>Frontiers in Microbiology</i> , 2013 , 4, 48	5.7	280
297	Effect of appropriate combination therapy on mortality of patients with bloodstream infections due to carbapenemase-producing Enterobacteriaceae (INCREMENT): a retrospective cohort study. <i>Lancet Infectious Diseases</i> , 2017 , 17, 726-734	25.5	268
296	Molecular dissection of the evolution of carbapenem-resistant multilocus sequence type 258 <i>Klebsiella pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4988-93	11.5	230
295	New β -Lactamase inhibitors: a therapeutic renaissance in an MDR world. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 1835-46	5.9	227
294	Carbapenemase-Producing Organisms: A Global Scourge. <i>Clinical Infectious Diseases</i> , 2018 , 66, 1290-1297	11.6	221
293	Isolation and characterization of an autoinducer synthase from <i>Acinetobacter baumannii</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 3386-92	3.5	193

292	Characterization of blaKPC-containing <i>Klebsiella pneumoniae</i> isolates detected in different institutions in the Eastern USA. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 63, 427-37	5.1	176
291	Carbapenem-resistant <i>Acinetobacter baumannii</i> and <i>Klebsiella pneumoniae</i> across a hospital system: impact of post-acute care facilities on dissemination. <i>Journal of Antimicrobial Chemotherapy</i> , 2010 , 65, 1807-18	5.1	147
290	Can Ceftazidime-Avibactam and Aztreonam Overcome β -Lactam Resistance Conferred by Metallo- β -Lactamases in Enterobacteriaceae?. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	143
289	Increasing prevalence and dissemination of NDM-1 metallo- β -lactamase in India: data from the SMART study (2009). <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 1992-7	5.1	133
288	Inhibitor resistance in the KPC-2 beta-lactamase, a preeminent property of this class A beta-lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 890-7	5.9	132
287	Genomic and transcriptomic analyses of colistin-resistant clinical isolates of <i>Klebsiella pneumoniae</i> reveal multiple pathways of resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 536-43	5.9	131
286	New insights into dissemination and variation of the health care-associated pathogen <i>Acinetobacter baumannii</i> from genomic analysis. <i>MBio</i> , 2014 , 5, e00963-13	7.8	124
285	β -Lactamases: A Focus on Current Challenges. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017 , 7,	5.4	122
284	Identification of a new allelic variant of the <i>Acinetobacter baumannii</i> cephalosporinase, ADC-7 beta-lactamase: defining a unique family of class C enzymes. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 2941-8	5.9	119
283	Genetic factors associated with elevated carbapenem resistance in KPC-producing <i>Klebsiella pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 4201-7	5.9	118
282	B1-Metallo- β -Lactamases: Where Do We Stand?. <i>Current Drug Targets</i> , 2016 , 17, 1029-50	3	113
281	Intestinal Carriage of Carbapenemase-Producing Organisms: Current Status of Surveillance Methods. <i>Clinical Microbiology Reviews</i> , 2016 , 29, 1-27	34	112
280	Overview: Global and Local Impact of Antibiotic Resistance. <i>Infectious Disease Clinics of North America</i> , 2016 , 30, 313-322	6.5	112
279	New Treatment Options against Carbapenem-Resistant Infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	112
278	The ecology of extended-spectrum β -lactamases (ESBLs) in the developed world. <i>Journal of Travel Medicine</i> , 2017 , 24, S44-S51	12.9	110
277	Ultrahigh resolution structure of a class A beta-lactamase: on the mechanism and specificity of the extended-spectrum SHV-2 enzyme. <i>Journal of Molecular Biology</i> , 2003 , 328, 289-301	6.5	110
276	New β -Lactamase Inhibitors in the Clinic. <i>Infectious Disease Clinics of North America</i> , 2016 , 30, 441-464	6.5	109
275	Active and passive immunization protects against lethal, extreme drug resistant- <i>Acinetobacter baumannii</i> infection. <i>PLoS ONE</i> , 2012 , 7, e29446	3.7	106

274	Infectious Diseases Society of America Guidance on the Treatment of Extended-Spectrum β -Lactamase Producing Enterobacterales (ESBL-E), Carbapenem-Resistant Enterobacterales (CRE), and <i>Pseudomonas aeruginosa</i> with Difficult-to-Treat Resistance (DTR-P. <i>aeruginosa</i>). <i>Clinical Infectious Diseases</i> , 2021 , 72, e169-e183	11.6	105
273	Unexpected challenges in treating multidrug-resistant Gram-negative bacteria: resistance to ceftazidime-avibactam in archived isolates of <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 1020-9	5.9	104
272	Surveillance of carbapenem-resistant <i>Klebsiella pneumoniae</i> : tracking molecular epidemiology and outcomes through a regional network. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 4035-41	5.9	100
271	Colistin Resistance in Carbapenem-Resistant <i>Klebsiella pneumoniae</i> : Laboratory Detection and Impact on Mortality. <i>Clinical Infectious Diseases</i> , 2017 , 64, 711-718	11.6	100
270	Inhibition of LpxC protects mice from resistant <i>Acinetobacter baumannii</i> by modulating inflammation and enhancing phagocytosis. <i>MBio</i> , 2012 , 3,	7.8	99
269	A Multinational, Preregistered Cohort Study of β -Lactam/ β -Lactamase Inhibitor Combinations for Treatment of Bloodstream Infections Due to Extended-Spectrum- β -Lactamase-Producing Enterobacteriaceae. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 4159-69	5.9	96
268	Dipicolinic Acid Derivatives as Inhibitors of New Delhi Metallo- β -Lactamase-1. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 7267-7283	8.3	94
267	Steering Evolution with Sequential Therapy to Prevent the Emergence of Bacterial Antibiotic Resistance. <i>PLoS Computational Biology</i> , 2015 , 11, e1004493	5	93
266	Ceftazidime/Avibactam, Meropenem/Vaborbactam, or Both? Clinical and Formulary Considerations. <i>Clinical Infectious Diseases</i> , 2019 , 68, 519-524	11.6	88
265	Cross-class metallo- β -Lactamase inhibition by bisthiazolidines reveals multiple binding modes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3745-54	11.5	87
264	The Continuing Challenge of Metallo- β -Lactamase Inhibition: Mechanism Matters. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 635-647	13.2	83
263	Crystal structure of KPC-2: insights into carbapenemase activity in class A beta-lactamases. <i>Biochemistry</i> , 2007 , 46, 5732-40	3.2	82
262	Membrane anchoring stabilizes and favors secretion of New Delhi metallo- β -Lactamase. <i>Nature Chemical Biology</i> , 2016 , 12, 516-22	11.7	81
261	Antibiotic collateral sensitivity is contingent on the repeatability of evolution. <i>Nature Communications</i> , 2019 , 10, 334	17.4	80
260	First clinical cases of OXA-48-producing carbapenem-resistant <i>Klebsiella pneumoniae</i> in the United States: the "menace" arrives in the new world. <i>Journal of Clinical Microbiology</i> , 2013 , 51, 680-3	9.7	80
259	Gram-Negative Bacterial Infections: Research Priorities, Accomplishments, and Future Directions of the Antibacterial Resistance Leadership Group. <i>Clinical Infectious Diseases</i> , 2017 , 64, S30-S35	11.6	78
258	Bisthiazolidines: A Substrate-Mimicking Scaffold as an Inhibitor of the NDM-1 Carbapenemase. <i>ACS Infectious Diseases</i> , 2015 , 1, 544-54	5.5	78
257	Erratum for Wright et al., Population Structure of KPC-Producing <i>Klebsiella pneumoniae</i> Isolates from Midwestern U.S. Hospitals. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 6343-6343	5.9	78

256	2267. The Effect of Opportunistic Infection (OI) Prophylaxis on the Gastrointestinal Microbiome (GIM) and Immune Reconstitution (IR) in Veterans With HIV and AIDS. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S671-S671	1	78
255	698. Nacubactam Inhibits Class A β lactamases. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S251-S252	1	78
254	2336. Resistance Mechanisms and Factors Associated With CTX-M-9 Group Extended-Spectrum β Lactamase (ESBL)-Producing Enterobacteriaceae Infections in Children. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S694-S694	1	78
253	700. Identification and Whole-Genome Sequencing (WGS) of Meropenem-Vaborbactam (MV) Resistant <i>Klebsiella pneumoniae</i> (MVRKP) Among Patients Without Prior Exposure to MV: Collateral Damage. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S252-S252	1	78
252	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
251	Activity of ceftazidime/avibactam against isogenic strains of <i>Escherichia coli</i> containing KPC and SHV β lactamases with single amino acid substitutions in the loop. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2279-86	5.1	73
250	Variants of β lactamase KPC-2 that are resistant to inhibition by avibactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3710-7	5.9	72
249	Antibiotic-resistant gram-negative bacterial infections in patients with cancer. <i>Clinical Infectious Diseases</i> , 2014 , 59 Suppl 5, S335-9	11.6	70
248	WCK 5107 (Zidebactam) and WCK 5153 Are Novel Inhibitors of PBP2 Showing Potent " β Lactam Enhancer" Activity against <i>Pseudomonas aeruginosa</i> , Including Multidrug-Resistant Metallo- β Lactamase-Producing High-Risk Clones. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 ,	5.9	68
247	61 Carbapenemase-2 (KPC-2), Substitutions at Ambler Position Asp179, and Resistance to Ceftazidime-Avibactam: Unique Antibiotic-Resistant Phenotypes Emerge from β Lactamase Protein Engineering. <i>MBio</i> , 2017 , 8,	7.8	68
246	A general reaction mechanism for carbapenem hydrolysis by mononuclear and binuclear metallo- β lactamases. <i>Nature Communications</i> , 2017 , 8, 538	17.4	68
245	A Predictive Model of Mortality in Patients With Bloodstream Infections due to Carbapenemase-Producing Enterobacteriaceae. <i>Mayo Clinic Proceedings</i> , 2016 , 91, 1362-1371	6.4	66
244	"Silent" dissemination of <i>Klebsiella pneumoniae</i> isolates bearing K. pneumoniae carbapenemase in a long-term care facility for children and young adults in Northeast Ohio. <i>Clinical Infectious Diseases</i> , 2012 , 54, 1314-21	11.6	65
243	Ceftolozane/Tazobactam vs Polymyxin or Aminoglycoside-based Regimens for the Treatment of Drug-resistant <i>Pseudomonas aeruginosa</i> . <i>Clinical Infectious Diseases</i> , 2020 , 71, 304-310	11.6	63
242	A Primer on AmpC β Lactamases: Necessary Knowledge for an Increasingly Multidrug-resistant World. <i>Clinical Infectious Diseases</i> , 2019 , 69, 1446-1455	11.6	61
241	Non-phenotypic tests to detect and characterize antibiotic resistance mechanisms in Enterobacteriaceae. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013 , 77, 179-94	2.9	61
240	Population structure of KPC-producing <i>Klebsiella pneumoniae</i> isolates from midwestern U.S. hospitals. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 4961-5	5.9	61
239	Molecular and clinical epidemiology of carbapenem-resistant Enterobacteriales in the USA (CRACKLE-2): a prospective cohort study. <i>Lancet Infectious Diseases</i> , 2020 , 20, 731-741	25.5	59

238	Evolution of New Delhi metallo- β -lactamase (NDM) in the clinic: Effects of NDM mutations on stability, zinc affinity, and mono-zinc activity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 12606-12618	5.4	59
237	Inhibition of class A beta-lactamases by carbapenems: crystallographic observation of two conformations of meropenem in SHV-1. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12656-62	16.4	58
236	Infectious Diseases Society of America Guidance on the Treatment of Extended-Spectrum β -Lactamase Producing Enterobacterales (ESBL-E), Carbapenem-Resistant Enterobacterales (CRE), and <i>Pseudomonas aeruginosa</i> with Difficult-to-Treat Resistance (DTR-P. <i>aeruginosa</i>). <i>Clinical Infectious Diseases</i> , 2021 , 72, 1109-1116	11.6	58
235	Exploring the role of a conserved class A residue in the β -Loop of KPC-2 β -Lactamase: a mechanism for ceftazidime hydrolysis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31783-93	5.4	57
234	ARGONAUT-I: Activity of Cefiderocol (S-649266), a Siderophore Cephalosporin, against Gram-Negative Bacteria, Including Carbapenem-Resistant Nonfermenters and with Defined Extended-Spectrum β -Lactamases and Carbapenemases. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	57
233	Avibactam and inhibitor-resistant SHV β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3700-9	5.9	56
232	Host fate is rapidly determined by innate effector-microbial interactions during <i>Acinetobacter baumannii</i> bacteremia. <i>Journal of Infectious Diseases</i> , 2015 , 211, 1296-305	7	55
231	Relebactam Is a Potent Inhibitor of the KPC-2 β -Lactamase and Restores Imipenem Susceptibility in KPC-Producing Enterobacteriaceae. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	51
230	Overcoming an Extremely Drug Resistant (XDR) Pathogen: Avibactam Restores Susceptibility to Ceftazidime for <i>Burkholderia cepacia</i> Complex Isolates from Cystic Fibrosis Patients. <i>ACS Infectious Diseases</i> , 2017 , 3, 502-511	5.5	50
229	<i>Acinetobacter baumannii</i> rOmpA vaccine dose alters immune polarization and immunodominant epitopes. <i>Vaccine</i> , 2013 , 31, 313-8	4.1	50
228	Design, synthesis, and crystal structures of 6-alkylidene-2Rsubstituted penicillanic acid sulfones as potent inhibitors of <i>Acinetobacter baumannii</i> OXA-24 carbapenemase. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13320-31	16.4	50
227	Carbapenemases: Transforming into a Yet More Dangerous Menace. <i>Biomolecules</i> , 2020 , 10,	5.9	49
226	Genome dynamics of multidrug-resistant <i>Acinetobacter baumannii</i> during infection and treatment. <i>Genome Medicine</i> , 2016 , 8, 26	14.4	48
225	Extended-spectrum AmpC cephalosporinase in <i>Acinetobacter baumannii</i> : ADC-56 confers resistance to cefepime. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 4922-5	5.9	48
224	Biochemical, mechanistic, and spectroscopic characterization of metallo- β -lactamase VIM-2. <i>Biochemistry</i> , 2014 , 53, 7321-31	3.2	47
223	Inhibition of <i>Klebsiella</i> β -Lactamases (SHV-1 and KPC-2) by Avibactam: A Structural Study. <i>PLoS ONE</i> , 2015 , 10, e0136813	3.7	47
222	Novel β -Lactamase inhibitors: a therapeutic hope against the scourge of multidrug resistance. <i>Frontiers in Microbiology</i> , 2013 , 4, 392	5.7	46
221	Rapid Molecular Diagnostics, Antibiotic Treatment Decisions, and Developing Approaches to Inform Empiric Therapy: PRIMERS I and II. <i>Clinical Infectious Diseases</i> , 2016 , 62, 181-9	11.6	44

220	Substrate selectivity and a novel role in inhibitor discrimination by residue 237 in the KPC-2 beta-lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 2867-77	5.9	44
219	Elucidating the role of Trp105 in the KPC-2 β -lactamase. <i>Protein Science</i> , 2010 , 19, 1714-27	6.3	44
218	New Molecular Diagnostic Approaches to Bacterial Infections and Antibacterial Resistance. <i>Annual Review of Medicine</i> , 2018 , 69, 379-394	17.4	43
217	Clinical Evolution of New Delhi Metallo- β -Lactamase (NDM) Optimizes Resistance under Zn(II) Deprivation. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	43
216	Successful Treatment of Bloodstream Infection Due to Metallo- β -Lactamase-Producing <i>Stenotrophomonas maltophilia</i> in a Renal Transplant Patient. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 5130-4	5.9	43
215	Evaluation of updated interpretative criteria for categorizing <i>Klebsiella pneumoniae</i> with reduced carbapenem susceptibility. <i>Journal of Clinical Microbiology</i> , 2010 , 48, 4417-25	9.7	43
214	Deciphering the Evolution of Cephalosporin Resistance to Ceftolozane-Tazobactam in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2018 , 9,	7.8	42
213	Insights into β -lactamases from Burkholderia species, two phylogenetically related yet distinct resistance determinants. <i>Journal of Biological Chemistry</i> , 2013 , 288, 19090-102	5.4	40
212	Clinical Variants of New Delhi Metallo- β -Lactamase Are Evolving To Overcome Zinc Scarcity. <i>ACS Infectious Diseases</i> , 2017 , 3, 927-940	5.5	39
211	Therapies for multidrug resistant and extensively drug-resistant non-fermenting gram-negative bacteria causing nosocomial infections: a perilous journey toward rationally targeted therapy. <i>Expert Review of Anti-Infective Therapy</i> , 2018 , 16, 89-110	5.5	39
210	Impact of therapy and strain type on outcomes in urinary tract infections caused by carbapenem-resistant <i>Klebsiella pneumoniae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 1203-11	5.1	39
209	An Analysis of the Epidemic of <i>Klebsiella pneumoniae</i> Carbapenemase-Producing <i>K. pneumoniae</i> : Convergence of Two Evolutionary Mechanisms Creates the "Perfect Storm". <i>Journal of Infectious Diseases</i> , 2017 , 217, 82-92	7	38
208	Boronic Acid Transition State Inhibitors Active against KPC and Other Class A β -Lactamases: Structure-Activity Relationships as a Guide to Inhibitor Design. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 1751-9	5.9	38
207	Cryo-Electron Microscopy Structure of an <i>Acinetobacter baumannii</i> Multidrug Efflux Pump. <i>MBio</i> , 2019 , 10,	7.8	38
206	Monoclonal Antibody Protects Against <i>Acinetobacter baumannii</i> Infection by Enhancing Bacterial Clearance and Evading Sepsis. <i>Journal of Infectious Diseases</i> , 2017 , 216, 489-501	7	38
205	Activities of ceftazidime, ceftaroline, and aztreonam alone and combined with avibactam against isogenic <i>Escherichia coli</i> strains expressing selected single β -lactamases. <i>Diagnostic Microbiology and Infectious Disease</i> , 2015 , 82, 65-9	2.9	37
204	Probing the Interaction of Aspergillomarasmine A with Metallo- β -Lactamases NDM-1, VIM-2, and IMP-7. <i>ACS Infectious Diseases</i> , 2018 , 4, 135-145	5.5	37
203	Diabetes Exacerbates Infection via Hyperinflammation by Signaling through TLR4 and RAGE. <i>MBio</i> , 2017 , 8,	7.8	37

202	Understanding the molecular determinants of substrate and inhibitor specificities in the Carbapenemase KPC-2: exploring the roles of Arg220 and Glu276. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4428-38	5.9	37
201	Development and validation of the INCREMENT-ESBL predictive score for mortality in patients with bloodstream infections due to extended-spectrum- β -lactamase-producing Enterobacteriaceae. <i>Journal of Antimicrobial Chemotherapy</i> , 2017 , 72, 906-913	5.1	36
200	Avibactam Restores the Susceptibility of Clinical Isolates of <i>Stenotrophomonas maltophilia</i> to Aztreonam. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	36
199	Penicillin sulfone inhibitors of class D beta-lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 1414-24	5.9	36
198	Inhibition of the class C beta-lactamase from <i>Acinetobacter</i> spp.: insights into effective inhibitor design. <i>Biochemistry</i> , 2010 , 49, 329-40	3.2	36
197	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
196	Influence of Aging and Environment on Presentation of Infection in Older Adults. <i>Infectious Disease Clinics of North America</i> , 2017 , 31, 593-608	6.5	34
195	Predominance of KPC-3 in a survey for carbapenemase-producing Enterobacteriaceae in Portugal. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3588-92	5.9	34
194	Outcomes of carbapenem-resistant Enterobacteriaceae isolation: matched analysis. <i>American Journal of Infection Control</i> , 2014 , 42, 612-20	3.8	34
193	Exploring sequence requirements for C ₁ C ₂ Carboxylate recognition in the <i>Pseudomonas aeruginosa</i> cephalosporinase: Insights into plasticity of the AmpC β -Lactamase. <i>Protein Science</i> , 2011 , 20, 941-58	6.3	34
192	Monitoring Ceftazidime-Avibactam and Aztreonam Concentrations in the Treatment of a Bloodstream Infection Caused by a Multidrug-Resistant <i>Enterobacter</i> sp. Carrying Both <i>Klebsiella pneumoniae</i> Carbapenemase-4 and New Delhi Metallo- β -Lactamase-1. <i>Clinical Infectious Diseases</i> , 2020 , 71, 1095-1098	11.6	34
191	Ertapenem for the treatment of bloodstream infections due to ESBL-producing Enterobacteriaceae: a multinational pre-registered cohort study. <i>Journal of Antimicrobial Chemotherapy</i> , 2016 , 71, 1672-80	5.1	33
190	Empiric Therapy With Carbapenem-Sparing Regimens for Bloodstream Infections due to Extended-Spectrum β -Lactamase-Producing Enterobacteriaceae: Results From the INCREMENT Cohort. <i>Clinical Infectious Diseases</i> , 2017 , 65, 1615-1623	11.6	33
189	Crystal structures of KPC-2 β -Lactamase in complex with 3-nitrophenyl boronic acid and the penam sulfone PSR-3-226. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 2713-8	5.9	33
188	First report of an OXA-48-producing multidrug-resistant <i>Proteus mirabilis</i> strain from Gaza, Palestine. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 4305-7	5.9	32
187	Reclaiming the efficacy of β -Lactam- β -Lactamase inhibitor combinations: avibactam restores the susceptibility of CMY-2-producing <i>Escherichia coli</i> to ceftazidime. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 4290-7	5.9	32
186	Identification of plasmid-mediated AmpC beta-lactamases in <i>Escherichia coli</i> , <i>Klebsiella</i> spp., and <i>proteus</i> species can potentially improve reporting of cephalosporin susceptibility testing results. <i>Journal of Clinical Microbiology</i> , 2009 , 47, 294-9	9.7	32
185	Inhibition of OXA-1 beta-lactamase by penems. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 3135-43	5.9	32

184	Click Chemistry in Lead Optimization of Boronic Acids as β -Lactamase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 5445-58	8.3	31
183	Resistance to Novel β -Lactam- β -Lactamase Inhibitor Combinations: The "Price of Progress". <i>Infectious Disease Clinics of North America</i> , 2020 , 34, 773-819	6.5	30
182	Protein determinants of dissemination and host specificity of metallo- β -lactamases. <i>Nature Communications</i> , 2019 , 10, 3617	17.4	29
181	Kinetic analysis of an inhibitor-resistant variant of the OHIO-1 beta-lactamase, an SHV-family class A enzyme. <i>Biochemical Journal</i> , 1998 , 333 (Pt 2), 395-400	3.8	29
180	The Pitt Bacteremia Score Predicts Mortality in Nonbacteremic Infections. <i>Clinical Infectious Diseases</i> , 2020 , 70, 1826-1833	11.6	29
179	Extensively drug-resistant pseudomonas aeruginosa isolates containing blaVIM-2 and elements of Salmonella genomic island 2: a new genetic resistance determinant in Northeast Ohio. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 5929-35	5.9	28
178	Immunomodulatory Peptide IDR-1018 Decreases Implant Infection and Preserves Osseointegration. <i>Clinical Orthopaedics and Related Research</i> , 2015 , 473, 2898-907	2.2	28
177	European Society of clinical microbiology and infectious diseases (ESCMID) guidelines for the treatment of infections caused by Multidrug-resistant Gram-negative bacilli (endorsed by ESICM -European Society of intensive care Medicine).. <i>Clinical Microbiology and Infection</i> , 2021 ,	9.5	27
176	Infectious Diseases Society of America Guidance on the Treatment of AmpC β -Lactamase-Producing Enterobacterales, Carbapenem-Resistant Acinetobacter baumannii, and Stenotrophomonas maltophilia Infections. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	27
175	Molecular Diversity and Plasmid Analysis of KPC-Producing Escherichia coli. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 4073-81	5.9	27
174	Rapid Molecular Diagnostics to Inform Empiric Use of Ceftazidime/Avibactam and Ceftolozane/Tazobactam Against Pseudomonas aeruginosa: PRIMERS IV. <i>Clinical Infectious Diseases</i> , 2019 , 68, 1823-1830	11.6	27
173	Population Structure, Molecular Epidemiology, and β -Lactamase Diversity among Stenotrophomonas maltophilia Isolates in the United States. <i>MBio</i> , 2019 , 10,	7.8	26
172	Host-specific enzyme-substrate interactions in SPM-1 metallo- β -lactamase are modulated by second sphere residues. <i>PLoS Pathogens</i> , 2014 , 10, e1003817	7.6	26
171	Draft Genome Sequence of the Clinical Isolate Acinetobacter nosocomialis Strain M2. <i>Genome Announcements</i> , 2013 , 1,		26
170	Crystal Structures of KPC-2 and SHV-1 β -Lactamases in Complex with the Boronic Acid Transition State Analog S02030. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 1760-6	5.9	25
169	Exploring Additional Dimensions of Complexity in Inhibitor Design for Serine β -Lactamases: Mechanistic and Intra- and Inter-molecular Chemistry Approaches. <i>Frontiers in Microbiology</i> , 2018 , 9, 622 ⁵⁻⁷		25
168	Role of Asp104 in the SHV beta-lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 4124-31	5.9	25
167	A Standard Numbering Scheme for Class C β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	25

166	Analysis of β -Lactamase Resistance Determinants in Enterobacteriaceae from Chicago Children: a Multicenter Survey. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 3462-9	5.9	25
165	Exploring the potential of boronic acids as inhibitors of OXA-24/40 β -Lactamase. <i>Protein Science</i> , 2017 , 26, 515-526	6.3	24
164	Nosocomial Outbreak of Extensively Drug-Resistant <i>Acinetobacter baumannii</i> Isolates Containing Carried on a Plasmid. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	24
163	External guide sequence technology: a path to development of novel antimicrobial therapeutics. <i>Annals of the New York Academy of Sciences</i> , 2015 , 1354, 98-110	6.5	24
162	Transcriptome Remodeling of during Infection and Treatment. <i>MBio</i> , 2017 , 8,	7.8	23
161	Biochemical and structural analysis of inhibitors targeting the ADC-7 cephalosporinase of <i>Acinetobacter baumannii</i> . <i>Biochemistry</i> , 2014 , 53, 7670-9	3.2	23
160	Early insights into the interactions of different β -Lactam antibiotics and β -Lactamase inhibitors against soluble forms of <i>Acinetobacter baumannii</i> PBP1a and <i>Acinetobacter</i> sp. PBP3. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 5687-92	5.9	23
159	Inactivation of CMY-2 beta-lactamase by tazobactam: initial mass spectroscopic characterization. <i>BBA - Proteins and Proteomics</i> , 2001 , 1547, 196-205		23
158	The urgent need for metallo- β -Lactamase inhibitors: an unattended global threat. <i>Lancet Infectious Diseases</i> , 2021 ,	25.5	23
157	Whole-Genome Comparative Analysis of Two Carbapenem-Resistant ST-258 <i>Klebsiella pneumoniae</i> Strains Isolated during a North-Eastern Ohio Outbreak: Differences within the High Heterogeneity Zones. <i>Genome Biology and Evolution</i> , 2016 , 8, 2036-43	3.9	22
156	Multiplex PCR for identification of two capsular types in epidemic KPC-producing <i>Klebsiella pneumoniae</i> sequence type 258 strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 4196-9	5.9	22
155	Informing Antibiotic Treatment Decisions: Evaluating Rapid Molecular Diagnostics To Identify Susceptibility and Resistance to Carbapenems against <i>Acinetobacter</i> spp. in PRIMERS III. <i>Journal of Clinical Microbiology</i> , 2017 , 55, 134-144	9.7	22
154	Detection of extended-spectrum β -Lactamase and <i>Klebsiella pneumoniae</i> Carbapenemase genes directly from blood cultures by use of a nucleic acid microarray. <i>Journal of Clinical Microbiology</i> , 2012 , 50, 2901-4	9.7	22
153	Cefiderocol: A Novel Siderophore Cephalosporin Defeating Carbapenem-resistant Pathogens. <i>Clinical Infectious Diseases</i> , 2019 , 69, S519-S520	11.6	22
152	Structural basis of activity against aztreonam and extended spectrum cephalosporins for two carbapenem-hydrolyzing class D β -Lactamases from <i>Acinetobacter baumannii</i> . <i>Biochemistry</i> , 2015 , 54, 1976-87	3.2	21
151	The role of OXA-1 beta-lactamase Asp(66) in the stabilization of the active-site carbamate group and in substrate turnover. <i>Biochemical Journal</i> , 2008 , 410, 455-62	3.8	21
150	Structure-Based Analysis of Boronic Acids as Inhibitors of <i>Acinetobacter</i> -Derived Cephalosporinase-7, a Unique Class C β -Lactamase. <i>ACS Infectious Diseases</i> , 2018 , 4, 325-336	5.5	21
149	Inhibition of <i>Acinetobacter</i> -Derived Cephalosporinase: Exploring the Carboxylate Recognition Site Using Novel β -Lactamase Inhibitors. <i>ACS Infectious Diseases</i> , 2018 , 4, 337-348	5.5	21

148	Human serum albumin alters specific genes that can play a role in survival and persistence in <i>Acinetobacter baumannii</i> . <i>Scientific Reports</i> , 2018 , 8, 14741	4.9	21
147	Cryo-electron Microscopy Structure of the <i>Acinetobacter baumannii</i> 70S Ribosome and Implications for New Antibiotic Development. <i>MBio</i> , 2020 , 11,	7.8	20
146	Advancing Diagnostics to Address Antibacterial Resistance: The Diagnostics and Devices Committee of the Antibacterial Resistance Leadership Group. <i>Clinical Infectious Diseases</i> , 2017 , 64, S41-S47	11.6	19
145	Identification of Potential Virulence Factors in the Model Strain A118. <i>Frontiers in Microbiology</i> , 2019 , 10, 1599	5.7	19
144	Topical triple-antibiotic ointment as a novel therapeutic choice in wound management and infection prevention: a practical perspective. <i>Expert Review of Anti-Infective Therapy</i> , 2007 , 5, 773-82	5.5	19
143	LN-1-255, a penicillanic acid sulfone able to inhibit the class D carbapenemase OXA-48. <i>Journal of Antimicrobial Chemotherapy</i> , 2016 , 71, 2171-80	5.1	19
142	Defining the architecture of KPC-2 Carbapenemase: Identifying allosteric networks to fight antibiotics resistance. <i>Scientific Reports</i> , 2018 , 8, 12916	4.9	19
141	Exposing a β -Lactamase "Twist": the Mechanistic Basis for the High Level of Ceftazidime Resistance in the C69F Variant of the <i>Burkholderia pseudomallei</i> Pen1 β -Lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 777-88	5.9	18
140	Epithelial innate immune response to <i>Acinetobacter baumannii</i> challenge. <i>Infection and Immunity</i> , 2014 , 82, 4458-65	3.7	18
139	A Prospective Observational Study of the Epidemiology, Management, and Outcomes of Skin and Soft Tissue Infections Due to Carbapenem-Resistant. <i>Open Forum Infectious Diseases</i> , 2017 , 4, ofx157	1	18
138	Allosteric communication in class A β -Lactamases occurs via cooperative coupling of loop dynamics. <i>ELife</i> , 2021 , 10,	8.9	18
137	Benefit-risk Evaluation for Diagnostics: A Framework (BED-FRAME). <i>Clinical Infectious Diseases</i> , 2016 , 63, 812-7	11.6	18
136	Initial Assessment of the Molecular Epidemiology of blaNDM-1 in Colombia. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 4346-50	5.9	18
135	The Reaction Mechanism of Metallo- β -Lactamases Is Tuned by the Conformation of an Active-Site Mobile Loop. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	18
134	Elucidating the Role of Residue 67 in IMP-Type Metallo- β -Lactamase Evolution. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 7299-307	5.9	17
133	Membrane-Bound PenA β -Lactamase of <i>Burkholderia pseudomallei</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 60, 1509-14	5.9	17
132	A 17-Year Nationwide Study of <i>Burkholderia cepacia</i> Complex Bloodstream Infections Among Patients in the United States Veterans Health Administration. <i>Clinical Infectious Diseases</i> , 2017 , 65, 1253-1259	11.6	17
131	Ligand-dependent disorder of the Omega loop observed in extended-spectrum SHV-type beta-lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 2303-9	5.9	17

130	Multidrug Resistant Causing Prosthetic Valve Endocarditis: A Genetic-Based Chronicle of Evolving Antibiotic Resistance. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofw188	1	17
129	Human pleural fluid triggers global changes in the transcriptional landscape of <i>Acinetobacter baumannii</i> as an adaptive response to stress. <i>Scientific Reports</i> , 2019 , 9, 17251	4.9	17
128	Rapid Replacement of <i>Acinetobacter baumannii</i> Strains Accompanied by Changes in Lipooligosaccharide Loci and Resistance Gene Repertoire. <i>MBio</i> , 2019 , 10,	7.8	16
127	Complete sequence of a bla(KPC)-harboring cointegrate plasmid isolated from <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 2956-9	5.9	16
126	The different inhibition mechanisms of OXA-1 and OXA-24 β -lactamases are determined by the stability of active site carboxylated lysine. <i>Journal of Biological Chemistry</i> , 2014 , 289, 6152-64	5.4	16
125	A fluorescent carbapenem for structure function studies of penicillin-binding proteins, β -lactamases, and β -lactam sensors. <i>Analytical Biochemistry</i> , 2014 , 463, 70-4	3.1	16
124	Performance of the Phoenix bacterial identification system compared with disc diffusion methods for identifying extended-spectrum beta-lactamase, AmpC and KPC producers. <i>Journal of Medical Microbiology</i> , 2009 , 58, 774-778	3.2	16
123	Contamination of Ambient Air with <i>Acinetobacter baumannii</i> on Consecutive Inpatient Days. <i>Journal of Clinical Microbiology</i> , 2015 , 53, 2346-8	9.7	15
122	Activity of Ceftazidime-Avibactam against Carbapenem-Resistant and Hypervirulent <i>Klebsiella pneumoniae</i> Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	15
121	<i>Ureaplasma parvum</i> prosthetic joint infection detected by PCR. <i>Journal of Clinical Microbiology</i> , 2014 , 52, 2248-50	9.7	15
120	Community-Acquired Pyelonephritis in Pregnancy Caused by KPC-Producing <i>Klebsiella pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 4375-8	5.9	14
119	Natural history of <i>Acinetobacter baumannii</i> infection in mice. <i>PLoS ONE</i> , 2019 , 14, e0219824	3.7	14
118	Are <i>Staphylococcus intermedius</i> Infections in Humans Cases of Mistaken Identity? A Case Series and Literature Review. <i>Open Forum Infectious Diseases</i> , 2015 , 2, ofv110	1	14
117	Resistant pathogens in respiratory tract infections in older people. <i>Journal of the American Geriatrics Society</i> , 2002 , 50, S236-41	5.6	14
116	Evaluation of in vitro activity of ceftazidime/avibactam and ceftolozane/tazobactam against MDR <i>Pseudomonas aeruginosa</i> isolates from Qatar. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 3497-3504	5.1	13
115	In Vivo Evolution of CMY-2 to CMY-33 β -lactamase in <i>Escherichia coli</i> Sequence Type 131: Characterization of an Acquired Extended-Spectrum AmpC Conferring Resistance to Cefepime. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 7483-8	5.9	13
114	Performance of the CLSI Carba NP and the Rosco Carb Screen Assays Using North American Carbapenemase-Producing Enterobacteriaceae and <i>Pseudomonas aeruginosa</i> Isolates. <i>Journal of Clinical Microbiology</i> , 2015 , 53, 3370-3	9.7	13
113	Mutations Decreasing Intrinsic β -lactam Resistance Are Linked to Cell Division in the Nosocomial Pathogen <i>Acinetobacter baumannii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 3751-8	5.9	13

112	A Single Salt Bridge in VIM-20 Increases Protein Stability and Antibiotic Resistance under Low-Zinc Conditions. <i>MBio</i> , 2019 , 10,	7.8	13
111	Multiple substitutions lead to increased loop flexibility and expanded specificity in carbapenemase OXA-239. <i>Biochemical Journal</i> , 2018 , 475, 273-288	3.8	13
110	Determining the optimal dosing of a novel combination regimen of ceftazidime/avibactam with aztreonam against NDM-1-producing Enterobacteriaceae using a hollow-fibre infection model. <i>Journal of Antimicrobial Chemotherapy</i> , 2020 , 75, 2622-2632	5.1	12
109	Human Pleural Fluid Elicits Pyruvate and Phenylalanine Metabolism in to Enhance Cytotoxicity and Immune Evasion. <i>Frontiers in Microbiology</i> , 2019 , 10, 1581	5.7	12
108	Interspecies DNA acquisition by a naturally competent <i>Acinetobacter baumannii</i> strain. <i>International Journal of Antimicrobial Agents</i> , 2019 , 53, 483-490	14.3	12
107	Exploring the Landscape of Diazabicyclooctane (DBO) Inhibition: Avibactam Inactivation of PER-2 β -Lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	11
106	Risk Factors and Outcomes for Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Isolation, Stratified by Its Multilocus Sequence Typing: ST258 Versus Non-ST258. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofv213	1	11
105	SHV-129: A Gateway to Global Suppressors in the SHV β -Lactamase Family?. <i>Molecular Biology and Evolution</i> , 2016 , 33, 429-41	8.3	11
104	Failure to Communicate: Transmission of Extensively Drug-Resistant bla OXA-237-Containing <i>Acinetobacter baumannii</i> -Multiple Facilities in Oregon, 2012-2014. <i>Infection Control and Hospital Epidemiology</i> , 2017 , 38, 1335-1341	2	11
103	Overview: The Ongoing Threat of Antimicrobial Resistance. <i>Infectious Disease Clinics of North America</i> , 2020 , 34, 649-658	6.5	11
102	SISPA-Seq for rapid whole genome surveys of bacterial isolates. <i>Infection, Genetics and Evolution</i> , 2015 , 32, 191-8	4.5	10
101	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
100	Distinct Mechanisms of Dissemination of NDM-1 Metallo- β -Lactamase in Species in Argentina. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	10
99	A Noncanonical Metal Center Drives the Activity of the Sediminispirochaeta smaragdinae Metallo- β -Lactamase SPS-1. <i>Biochemistry</i> , 2018 , 57, 5218-5229	3.2	10
98	Identification of four patients with colistin-resistant <i>Escherichia coli</i> containing the mobile colistin resistance mcr-1 gene from a single health system in Michigan. <i>Infection Control and Hospital Epidemiology</i> , 2019 , 40, 1059-1062	2	10
97	Direct detection of indirect transmission of <i>Streptobacillus moniliformis</i> rat bite fever infection. <i>Journal of Clinical Microbiology</i> , 2014 , 52, 2259-61	9.7	10
96	The Role of Trimethoprim/Sulfamethoxazole in the Treatment of Infections Caused by Carbapenem-Resistant. <i>Open Forum Infectious Diseases</i> , 2019 , 6, ofy351	1	10
95	Human fluids alter DNA-acquisition in <i>Acinetobacter baumannii</i> . <i>Diagnostic Microbiology and Infectious Disease</i> , 2019 , 93, 183-187	2.9	10

94	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
93	Ceftazidime-Avibactam for the Treatment of Post-Neurosurgical Meningitis Caused by a <i>Klebsiella pneumoniae</i> carbapenemase (KPC)-Producing <i>Klebsiella pneumoniae</i> . <i>Open Forum Infectious Diseases</i> , 2016 , 3,	1	9
92	Infections caused by fluoroquinolone-resistant following transrectal ultrasound-guided biopsy of the prostate. <i>Journal of Global Antimicrobial Resistance</i> , 2014 , 2, 71-76	3.4	9
91	Clinical outcomes and bacterial characteristics of carbapenem-resistant <i>Klebsiella pneumoniae</i> complex among patients from different global regions (CRACKLE-2): a prospective, multicentre, cohort study. <i>Lancet Infectious Diseases</i> , 2021 ,	25.5	9
90	Insights into the L,d-Transpeptidases and d,d-Carboxypeptidase of <i>Mycobacterium abscessus</i> : Ceftaroline, Imipenem, and Novel Diazabicyclooctane Inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	8
89	1,2,3-Triazolylmethaneboronate: A Structure Activity Relationship Study of a Class of β -Lactamase Inhibitors against Cephalosporinase. <i>ACS Infectious Diseases</i> , 2020 , 6, 1965-1975	5.5	8
88	Penam sulfones and β -Lactamase inhibition: SA2-13 and the importance of the C2 side chain length and composition. <i>PLoS ONE</i> , 2014 , 9, e85892	3.7	8
87	Genome Sequences of Two Carbapenemase-Resistant <i>Klebsiella pneumoniae</i> ST258 Isolates. <i>Genome Announcements</i> , 2014 , 2,		8
86	Efflux pumps as interventions to control infection caused by drug-resistance bacteria. <i>Drug Discovery Today</i> , 2020 , 25, 2307-2316	8.8	8
85	Carbapenem Use Is Driving the Evolution of Imipenemase 1 Variants. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	8
84	ARGONAUT II Study of the Activity of Plazomicin against Carbapenemase-Producing <i>Klebsiella pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	8
83	A comprehensive and contemporary "snapshot" of β -Lactamases in carbapenem resistant <i>Acinetobacter baumannii</i> . <i>Diagnostic Microbiology and Infectious Disease</i> , 2021 , 99, 115242	2.9	8
82	Natural variants modify <i>Klebsiella pneumoniae</i> carbapenemase (KPC) acyl-enzyme conformational dynamics to extend antibiotic resistance. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100126	5.4	8
81	2-Mercaptomethyl Thiazolidines (MMTZs) Inhibit All Metallo- β -Lactamase Classes by Maintaining a Conserved Binding Mode. <i>ACS Infectious Diseases</i> , 2021 , 7, 2697-2706	5.5	8
80	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
79	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
78	Structural Insights into the Inhibition of the Extended-Spectrum β -Lactamase PER-2 by Avibactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	7
77	Crystal structure of Mox-1, a unique plasmid-mediated class C β -Lactamase with hydrolytic activity towards moxalactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 3914-20	5.9	7

76	Cerebrospinal fluid (CSF) augments metabolism and virulence expression factors in <i>Acinetobacter baumannii</i> . <i>Scientific Reports</i> , 2021 , 11, 4737	4.9	7
75	Emergence of Resistance to Colistin During the Treatment of Bloodstream Infection Caused by Carbapenemase-Producing. <i>Open Forum Infectious Diseases</i> , 2018 , 5, ofy054	1	7
74	2-Mercaptomethyl-thiazolidines use conserved aromatic-S interactions to achieve broad-range inhibition of metallo-β-lactamases. <i>Chemical Science</i> , 2021 , 12, 2898-2908	9.4	7
73	A cold hard menace: A contaminated ice machine as a potential source for transmission of carbapenem-resistant <i>Acinetobacter baumannii</i> . <i>American Journal of Infection Control</i> , 2017 , 45, 1273-1278	3.8	6
72	A Multi-Centered Case-Case-Control Study of Factors Associated With <i>Klebsiella pneumoniae</i> Carbapenemase-Producing Enterobacteriaceae Infections in Children and Young Adults. <i>Pediatric Infectious Disease Journal</i> , 2019 , 38, 490-495	3.4	6
71	Evaluation of Sensititre Broth Microdilution Plate for determining the susceptibility of carbapenem-resistant <i>Klebsiella pneumoniae</i> to polymyxins. <i>Diagnostic Microbiology and Infectious Disease</i> , 2018 , 91, 89-92	2.9	6
70	External validation of the INCREMENT-CPE mortality score in a carbapenem-resistant <i>Klebsiella pneumoniae</i> bacteraemia cohort: the prognostic significance of colistin resistance. <i>International Journal of Antimicrobial Agents</i> , 2019 , 54, 442-448	14.3	6
69	Identification of occult <i>Fusobacterium nucleatum</i> central nervous system infection by use of PCR-electrospray ionization mass spectrometry. <i>Journal of Clinical Microbiology</i> , 2014 , 52, 3462-4	9.7	6
68	Desirability of Outcome Ranking for the Management of Antimicrobial Therapy (DOOR MAT): A Framework for Assessing Antibiotic Selection Strategies in the Presence of Drug Resistance. <i>Clinical Infectious Diseases</i> , 2021 , 73, 344-350	11.6	6
67	Cryo-EM Determination of Eravacycline-Bound Structures of the Ribosome and the Multidrug Efflux Pump AdeJ of <i>Acinetobacter baumannii</i> . <i>MBio</i> , 2021 , 12, e0103121	7.8	6
66	Epidemiology of Carbapenem-Resistant Enterobacteriaceae at a Long-term Acute Care Hospital. <i>Open Forum Infectious Diseases</i> , 2018 , 5, ofy224	1	6
65	Drug-Resistant Tuberculosis: A Glance at Progress and Global Challenges. <i>Infectious Disease Clinics of North America</i> , 2020 , 34, 863-886	6.5	5
64	DISC: Describing Infections of the Spine treated with Ceftaroline. <i>Journal of Global Antimicrobial Resistance</i> , 2018 , 13, 146-151	3.4	5
63	A Comparison of Molecular Typing Methods Applied to <i>Enterobacter cloacae</i> complex: hsp60 Sequencing, Rep-PCR, and MLST. <i>Pathogens and Immunity</i> , 2017 , 2, 23	4.9	5
62	Bacterial Colonization and Antibiotic Resistance in a Prospective Cohort of Newborn Infants During the First Year of Life. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofw221	1	5
61	Clinical challenges treating infections: an update.. <i>JAC-Antimicrobial Resistance</i> , 2022 , 4, dlac040	2.9	5
60	Combination therapy for bloodstream infections with carbapenemase-producing Enterobacteriaceae - AuthorsReply. <i>Lancet Infectious Diseases</i> , 2017 , 17, 1020-1021	25.5	4
59	Core genome MLST and resistome analysis of <i>Klebsiella pneumoniae</i> using a clinically amenable workflow. <i>Diagnostic Microbiology and Infectious Disease</i> , 2020 , 97, 114996	2.9	4

58	Molecular characterisation of carbapenem-resistant <i>Enterobacter cloacae</i> complex in Colombia: bla and the R changing landscape. <i>Journal of Global Antimicrobial Resistance</i> , 2018 , 13, 184-189	3.4	4
57	The H-NS Regulator Plays a Role in the Stress Induced by Carbapenemase Expression in <i>Acinetobacter baumannii</i> . <i>MSphere</i> , 2020 , 5,	5	4
56	Human Pleural Fluid and Human Serum Albumin Modulate the Behavior of a Hypervirulent and Multidrug-Resistant (MDR) Representative Strain. <i>Pathogens</i> , 2021 , 10,	4.5	4
55	First Report of a Verona Integron-Encoded Metallo- β -Lactamase-Producing <i>Klebsiella pneumoniae</i> Infection in a Child in the United States. <i>Journal of the Pediatric Infectious Diseases Society</i> , 2016 , 5, e24-7.8	4.8	4
54	On the Offensive: the Role of Outer Membrane Vesicles in the Successful Dissemination of New Delhi Metallo- β -Lactamase (NDM-1). <i>MBio</i> , 2021 , 12, e0183621	7.8	4
53	Interplay between Meropenem and Human Serum Albumin on Expression of Carbapenem Resistance Genes and Natural Competence in <i>Acinetobacter baumannii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0101921	5.9	4
52	Shedding of multidrug-resistant gram-negative bacilli by colonized patients during procedures and patient care activities. <i>American Journal of Infection Control</i> , 2020 , 48, 1336-1340	3.8	3
51	Characterisation of ST25 NDM-1-producing <i>Acinetobacter</i> spp. strains leading the increase in NDM-1 emergence in Argentina. <i>Journal of Global Antimicrobial Resistance</i> , 2020 , 23, 108-110	3.4	3
50	AbGRI4, a novel antibiotic resistance island in multiply antibiotic-resistant <i>Acinetobacter baumannii</i> clinical isolates. <i>Journal of Antimicrobial Chemotherapy</i> , 2020 , 75, 2760-2768	5.1	3
49	"One-Two Punch": Synergistic β -Lactam Combinations for <i>Mycobacterium abscessus</i> and Target Redundancy in the Inhibition of Peptidoglycan Synthesis Enzymes. <i>Clinical Infectious Diseases</i> , 2021 , 73, 1532-1536	11.6	3
48	Simple Screening for Carbapenemase-Producing Enterobacteriaceae by Moxalactam Susceptibility Testing. <i>Journal of Clinical Microbiology</i> , 2017 , 55, 2276-2279	9.7	2
47	Structures of FOX-4 Cephamycinase in Complex with Transition-State Analog Inhibitors. <i>Biomolecules</i> , 2020 , 10,	5.9	2
46	Colistin resistance in China: from outer membrane to One Health. <i>Lancet Infectious Diseases</i> , 2020 , 20, 1106-1108	25.5	2
45	Culture negative empyema in a critically ill child: an opportunity for rapid molecular diagnostics. <i>BMC Anesthesiology</i> , 2014 , 14, 107	2.4	2
44	Inhibiting <i>Mycobacterium abscessus</i> Cell Wall Synthesis: Using a Novel Diazabicyclooctane β -Lactamase Inhibitor To Augment β -Lactam Action.. <i>MBio</i> , 2022 , e0352921	7.8	2
43	Deciphering the evolution of metallo- β -lactamases: a journey from the test tube to the bacterial periplasm.. <i>Journal of Biological Chemistry</i> , 2022 , 101665	5.4	2
42	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
41	Structural Insights into Inhibition of the <i>Acinetobacter</i> -Derived Cephalosporinase ADC-7 by Ceftazidime and Its Boronic Acid Transition State Analog. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	2

40	Emergence of Resistance to Ceftazidime-Avibactam in a <i>Pseudomonas aeruginosa</i> Isolate Producing Derepressed in a Hollow-Fiber Infection Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	2
39	Prosthetic Valve Endocarditis Caused by : A Case Report of Molecular Diagnostics Informing Nonsurgical Management. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofw202	1	2
38	Specific Protein-Membrane Interactions Promote Packaging of Metallo- β -Lactamases into Outer Membrane Vesicles. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0050721	5.9	2
37	Monoclonal Antibody Therapy against. <i>Infection and Immunity</i> , 2021 , 89, e0016221	3.7	2
36	The Role of Hydrophobic Nodes in the Dynamics of Class A β -Lactamases. <i>Frontiers in Microbiology</i> , 2021 , 12, 720991	5.7	2
35	Accessory Genomes Drive Independent Spread of Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Clonal Groups 258 and 307 in Houston, TX.. <i>MBio</i> , 2022 , e0049722	7.8	2
34	Human Serum Proteins and Susceptibility of to Cefiderocol: Role of Iron Transport.. <i>Biomedicines</i> , 2022 , 10,	4.8	2
33	Consensus on β -Lactamase Nomenclature.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , e0033322	5.9	2
32	ESBLs: An emerging problem in pediatric infectious diseases. <i>Journal of Pediatric Infectious Diseases</i> , 2015 , 03, 217-220	0.4	1
31	β -Triazolylboronic Acids: A Promising Scaffold for Effective Inhibitors of KPCs. <i>ChemMedChem</i> , 2020 , 15, 1283-1288	3.7	1
30	It's too soon to pull the plug on antibiotic cycling. <i>Lancet Infectious Diseases</i> , 2018 , 18, 493	25.5	1
29	Reply to Lesho and Clifford. <i>Clinical Infectious Diseases</i> , 2016 , 63, 571-2	11.6	1
28	An Analysis of the Novel Fluorocycline TP-6076 Bound to Both the Ribosome and Multidrug Efflux Pump AdeJ from <i>Acinetobacter baumannii</i> .. <i>MBio</i> , 2022 , e0373221	7.8	1
27	The BioWipe: a non-invasive method to detect intestinal carriage of multi-drug resistant gram-negative bacteria. <i>Journal of Chemotherapy</i> , 2021 , 1-3	2.3	1
26	Genomic epidemiology of colistin-resistant <i>Escherichia coli</i> in China.. <i>Lancet Microbe</i> , 2020 , 1, e51-e52.2	52.2	1
25	Predicting β -Lactam resistance using whole genome sequencing in <i>Klebsiella pneumoniae</i> : the challenge of β -Lactamase inhibitors. <i>Diagnostic Microbiology and Infectious Disease</i> , 2020 , 98, 115149	2.9	1
24	Structural and Biochemical Characterization of the Novel CTX-M-151 Extended-Spectrum β -Lactamase and Its Inhibition by Avibactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	1
23	Monoclonal antibody requires immunomodulation for efficacy against <i>Acinetobacter baumannii</i> infection. <i>Journal of Infectious Diseases</i> , 2021 ,	7	1

22	Detection of mcr-1 gene in a clinical Escherichia coli strain in North Carolina: first report. <i>Journal of Global Antimicrobial Resistance</i> , 2021 , 25, 154-156	3.4	1
21	Ceftazidime/Avibactam and Ceftolozane/Tazobactam in Treatment of Pulmonary Infections by Imipenem Resistant Pseudomonas aeruginosa. <i>Open Forum Infectious Diseases</i> , 2016 , 3,	1	1
20	Application of "Precision Medicine" Through the Molecular Characterization of Extensively Drug Resistant (XDR) Klebsiella pneumoniae in a Multivisceral Transplant Candidate. <i>Open Forum Infectious Diseases</i> , 2016 , 3,	1	1
19	Prosthetic Valve Endocarditis (PVE) Caused by Bartonella henselae: A Case Report of Molecular Methods to Diagnose and Inform Non-Surgical Management. <i>Open Forum Infectious Diseases</i> , 2016 , 3,	1	1
18	H, C, and N backbone resonance assignments for KPC-2, a class A serine- β -lactamase. <i>Biomolecular NMR Assignments</i> , 2019 , 13, 139-142	0.7	1
17	2385. Ceftazidime/Avibactam in Combination With Fosfomycin: A Novel Therapeutic Strategy Against Multidrug-Resistant Pseudomonas aeruginosa. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S711-S711	1	1
16	Interaction of with Human Serum Albumin: Does the Host Determine the Outcome?. <i>Antibiotics</i> , 2021 , 10,	4.9	1
15	Histone-like nucleoid-structuring protein (H-NS) regulatory role in antibiotic resistance in Acinetobacter baumannii. <i>Scientific Reports</i> , 2021 , 11, 18414	4.9	1
14	Discovery of an Effective Small-Molecule Allosteric Inhibitor of New Delhi Metallo- β -lactamase (NDM).. <i>ACS Infectious Diseases</i> , 2022 , 8, 811-824	5.5	1
13	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
12	Different Conformations Revealed by NMR Underlie Resistance to Ceftazidime/Avibactam and Susceptibility to Meropenem and Imipenem among D179Y Variants of KPC β -lactamase.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , e0212421	5.9	1
11	Carbapenemase-producing Enterobacterales in solid organ transplantation: Tip of the iceberg?. <i>Transplant Infectious Disease</i> , 2021 ,	2.7	0
10	and sp. inhibit osseointegration of orthopaedic implants.. <i>Infection and Immunity</i> , 2022 , iai0066921	3.7	0
9	Accuracy of Direct Antimicrobial Susceptibility of Gram-Negative Bacteria from Positive Blood Cultures using MicroScan System and Value of Using Expert Rules for β -lactam Agents.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , aac0214821	5.9	0
8	Risk Factors for and Mechanisms of listin esistance Among nterobacterales: Getting at the CORE of the Issue. <i>Open Forum Infectious Diseases</i> , 2021 , 8, ofab145	1	0
7	Genomic heterogeneity underlies multidrug resistance in Pseudomonas aeruginosa: A population-level analysis beyond susceptibility testing.. <i>PLoS ONE</i> , 2022 , 17, e0265129	3.7	0
6	Carbapenem-Resistant Acinetobacter baumannii in U.S. Hospitals: Diversification of Circulating Lineages and Antimicrobial Resistance.. <i>MBio</i> , 2022 , e0275921	7.8	0
5	OXA-23 β -lactamase Overexpression in Acinetobacter baumannii Drives Physiological Changes Resulting in New Genetic Vulnerabilities. <i>MBio</i> , 2021 , e0313721	7.8	0

- 4 960The Molecular Characterization of Extended-Spectrum Beta-Lactamase (ESBL) and Carbapenem- Resistant Enterobacteriaceae (CRE) in Chicago Children, a two center study. *Open Forum Infectious Diseases*, **2014**, 1, S279-S280 1
- 3 Multiple Substitutions at Ambler Position 244 in SHV Provide Insight Into Importance of Arg244 in Inhibitor and Substrate Binding. *FASEB Journal*, **2006**, 20, A896 0.9
- 2 Overview of Aminoglycosides and Enzyme-Mediated Bacterial Resistance, Clinical Implications1-6
- 1 Imipenem/Relebactam Resistance in Clinical Isolates of Extensively Drug Resistant *Pseudomonas aeruginosa*: Inhibitor-Resistant β -Lactamases and Their Increasing Importance.. *Antimicrobial Agents and Chemotherapy*, **2022**, e0179021 5.9