

Matthew A Cooper

List of Publications by Citations

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

314
papers

19,337
citations

67
h-index

130
g-index

348
ext. papers

23,669
ext. citations

7.6
avg, IF

7.1
L-index

#	Paper	IF	Citations
314	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. <i>Nature Medicine</i> , 2015 , 21, 248-55	50.5	1354
313	Optical biosensors in drug discovery. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 515-28	64.1	748
312	Clonal hematopoiesis associated with TET2 deficiency accelerates atherosclerosis development in mice. <i>Science</i> , 2017 , 355, 842-847	33.3	602
311	Emerging pathogenic links between microbiota and the gut-lung axis. <i>Nature Reviews Microbiology</i> , 2017 , 15, 55-63	22.2	579
310	NLRP3 inflammasome blockade reduces liver inflammation and fibrosis in experimental NASH in mice. <i>Journal of Hepatology</i> , 2017 , 66, 1037-1046	13.4	432
309	Human Monocytes Engage an Alternative Inflammasome Pathway. <i>Immunity</i> , 2016 , 44, 833-46	32.3	389
308	Label-free screening of bio-molecular interactions. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 834-42	4.4	373
307	Natural product and natural product derived drugs in clinical trials. <i>Natural Product Reports</i> , 2014 , 31, 1612-61	15.1	365
306	PtdIns(3)P regulates the neutrophil oxidase complex by binding to the PX domain of p40(phox). <i>Nature Cell Biology</i> , 2001 , 3, 679-82	23.4	361
305	Fix the antibiotics pipeline. <i>Nature</i> , 2011 , 472, 32	50.4	331
304	Genomic characterization of the uncultured Bacteroidales family S24-7 inhabiting the guts of homeothermic animals. <i>Microbiome</i> , 2016 , 4, 36	16.6	322
303	Antibiotics in the clinical pipeline in 2013. <i>Journal of Antibiotics</i> , 2013 , 66, 571-91	3.7	302
302	A survey of the 2001 to 2005 quartz crystal microbalance biosensor literature: applications of acoustic physics to the analysis of biomolecular interactions. <i>Journal of Molecular Recognition</i> , 2007 , 20, 154-84	2.6	289
301	Inflammasome inhibition prevents β -synuclein pathology and dopaminergic neurodegeneration in mice. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	286
300	T helper 1 immunity requires complement-driven NLRP3 inflammasome activity in CD4+ T cells. <i>Science</i> , 2016 , 352, aad1210	33.3	268
299	Biomarkers in chronic kidney disease: a review. <i>Kidney International</i> , 2011 , 80, 806-21	9.9	268
298	Tet2-Mediated Clonal Hematopoiesis Accelerates Heart Failure Through a Mechanism Involving the IL-1 β /NLRP3 Inflammasome. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 875-886	15.1	252

297	Identification of ARAP3, a novel PI3K effector regulating both Arf and Rho GTPases, by selective capture on phosphoinositide affinity matrices. <i>Molecular Cell</i> , 2002 , 9, 95-108	17.6	252
296	Inhibiting the NLRP3 inflammasome with MCC950 promotes non-phlogistic clearance of amyloid- β and cognitive function in APP/PS1 mice. <i>Brain, Behavior, and Immunity</i> , 2017 , 61, 306-316	16.6	242
295	Antibiotics in the clinical pipeline at the end of 2015. <i>Journal of Antibiotics</i> , 2017 , 70, 3-24	3.7	226
294	Aminoglycoside antibiotics in the 21st century. <i>ACS Chemical Biology</i> , 2013 , 8, 105-15	4.9	221
293	K Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. <i>Immunity</i> , 2016 , 45, 761-773	32.3	219
292	Role for NLRP3 Inflammasome-mediated, IL-1 β -Dependent Responses in Severe, Steroid-Resistant Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 196, 283-297	10.2	206
291	Antibiotics in the clinical pipeline in 2011. <i>Journal of Antibiotics</i> , 2011 , 64, 413-25	3.7	206
290	Myeloid-derived miR-223 regulates intestinal inflammation via repression of the NLRP3 inflammasome. <i>Journal of Experimental Medicine</i> , 2017 , 214, 1737-1752	16.6	205
289	Environment characterization as an aid to wheat improvement: interpreting genotype-environment interactions by modelling water-deficit patterns in North-Eastern Australia. <i>Journal of Experimental Botany</i> , 2011 , 62, 1743-55	7	194
288	NLRP3 inflammasome activation downstream of cytoplasmic LPS recognition by both caspase-4 and caspase-5. <i>European Journal of Immunology</i> , 2015 , 45, 2918-26	6.1	177
287	The selective NLRP3-inflammasome inhibitor MCC950 reduces infarct size and preserves cardiac function in a pig model of myocardial infarction. <i>European Heart Journal</i> , 2017 , 38, 828-836	9.5	174
286	Advances in membrane receptor screening and analysis. <i>Journal of Molecular Recognition</i> , 2004 , 17, 286-315	3.5	167
285	Nanomechanical detection of antibiotic-mucopeptide binding in a model for superbug drug resistance. <i>Nature Nanotechnology</i> , 2008 , 3, 691-6	28.7	166
284	A vesicle capture sensor chip for kinetic analysis of interactions with membrane-bound receptors. <i>Analytical Biochemistry</i> , 2000 , 277, 196-205	3.1	162
283	The NLRP3 inflammasome functions as a driver of the myelodysplastic syndrome phenotype. <i>Blood</i> , 2016 , 128, 2960-2975	2.2	162
282	Direct and sensitive detection of a human virus by rupture event scanning. <i>Nature Biotechnology</i> , 2001 , 19, 833-7	44.5	160
281	Glycopeptide antibiotics: back to the future. <i>Journal of Antibiotics</i> , 2014 , 67, 631-44	3.7	151
280	Metal complexes as a promising source for new antibiotics. <i>Chemical Science</i> , 2020 , 11, 2627-2639	9.4	136

279	QU-GENE: a simulation platform for quantitative analysis of genetic models. <i>Bioinformatics</i> , 1998 , 14, 632-53	7.2	136
278	A survey of the 2006-2009 quartz crystal microbalance biosensor literature. <i>Journal of Molecular Recognition</i> , 2011 , 24, 754-87	2.6	134
277	Neutrophils--a key component of ischemia-reperfusion injury. <i>Shock</i> , 2013 , 40, 463-70	3.4	130
276	Helping Chemists Discover New Antibiotics. <i>ACS Infectious Diseases</i> , 2015 , 1, 285-7	5.5	125
275	Contribution of Amphipathicity and Hydrophobicity to the Antimicrobial Activity and Cytotoxicity of β -Hairpin Peptides. <i>ACS Infectious Diseases</i> , 2016 , 2, 442-450	5.5	119
274	The diagnostic sensitivity of dengue rapid test assays is significantly enhanced by using a combined antigen and antibody testing approach. <i>PLoS Neglected Tropical Diseases</i> , 2011 , 5, e1199	4.8	118
273	Developments in Glycopeptide Antibiotics. <i>ACS Infectious Diseases</i> , 2018 , 4, 715-735	5.5	112
272	Positive frequency shifts observed upon adsorbing micron-sized solid objects to a quartz crystal microbalance from the liquid phase. <i>Analytical Chemistry</i> , 2010 , 82, 2237-42	7.8	111
271	Wheat Breeding Nurseries, Target Environments, and Indirect Selection for Grain Yield. <i>Crop Science</i> , 1997 , 37, 1168-1176	2.4	108
270	Surface plasmon resonance analysis at a supported lipid monolayer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998 , 1373, 101-11	3.8	107
269	The cytokine release inhibitory drug CRID3 targets ASC oligomerisation in the NLRP3 and AIM2 inflammasomes. <i>PLoS ONE</i> , 2011 , 6, e29539	3.7	105
268	Inflammasome activity is essential for one kidney/deoxycorticosterone acetate/salt-induced hypertension in mice. <i>British Journal of Pharmacology</i> , 2016 , 173, 752-65	8.6	104
267	Imperfect coordination chemistry facilitates metal ion release in the Psa permease. <i>Nature Chemical Biology</i> , 2014 , 10, 35-41	11.7	103
266	A survey of the 2010 quartz crystal microbalance literature. <i>Journal of Molecular Recognition</i> , 2012 , 25, 451-73	2.6	100
265	Reassessing the role of the NLRP3 inflammasome during pathogenic influenza A virus infection via temporal inhibition. <i>Scientific Reports</i> , 2016 , 6, 27912	4.9	99
264	Optical biosensors: where next and how soon?. <i>Drug Discovery Today</i> , 2006 , 11, 1061-7	8.8	95
263	Pharmacological inhibition of the NLRP3 inflammasome reduces blood pressure, renal damage, and dysfunction in salt-sensitive hypertension. <i>Cardiovascular Research</i> , 2019 , 115, 776-787	9.9	95
262	Biofunctionalized protein resistant oligo(ethylene glycol)-derived polymer brushes as selective immobilization and sensing platforms. <i>Biomacromolecules</i> , 2009 , 10, 2885-94	6.9	91

261	Inflammasomes in the lung. <i>Molecular Immunology</i> , 2017 , 86, 44-55	4.3	85
260	Inflammasomes in COPD and neutrophilic asthma. <i>Thorax</i> , 2015 , 70, 1199-201	7.3	80
259	Tumor-suppressor Gene Promoter Hypermethylation in Saliva of Head and Neck Cancer Patients. <i>Translational Oncology</i> , 2012 , 5, 321-6	4.9	79
258	An optimized whole blood assay measuring expression and activity of NLRP3-, NLRC4 and AIM2-inflammasomes. <i>Pediatric Rheumatology</i> , 2015 , 13,	3.5	78
257	Binding of glycopeptide antibiotics to a model of a vancomycin-resistant bacterium. <i>Chemistry and Biology</i> , 1999 , 6, 891-9		77
256	Silver bullets: A new lustre on an old antimicrobial agent. <i>Biotechnology Advances</i> , 2018 , 36, 1391-1411	17.8	76
255	Nitroimidazoles: Molecular Fireworks That Combat a Broad Spectrum of Infectious Diseases. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 7636-7657	8.3	73
254	Protein-inspired antibiotics active against vancomycin- and daptomycin-resistant bacteria. <i>Nature Communications</i> , 2018 , 9, 22	17.4	73
253	Programmed Death-1 Ligand 2-Mediated Regulation of the PD-L1 to PD-1 Axis Is Essential for Establishing CD4(+) T Cell Immunity. <i>Immunity</i> , 2016 , 45, 333-45	32.3	73
252	IL-1 β s an innate immune sensor of microbial proteolysis. <i>Science Immunology</i> , 2016 , 1,	28	73
251	Activity and Predicted Nephrotoxicity of Synthetic Antibiotics Based on Polymyxin B. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 1068-77	8.3	73
250	Scaffolding and completing genome assemblies in real-time with nanopore sequencing. <i>Nature Communications</i> , 2017 , 8, 14515	17.4	72
249	Clostridium difficile drug pipeline: challenges in discovery and development of new agents. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 5164-85	8.3	72
248	Development of anti-infectives using phage display: biological agents against bacteria, viruses, and parasites. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4569-82	5.9	69
247	The Roles of Dimerization and Membrane Anchoring in Activity of Glycopeptide Antibiotics against Vancomycin-Resistant Bacteria. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12041-12047	16.4	66
246	The microglial NLRP3 inflammasome is activated by amyotrophic lateral sclerosis proteins. <i>Glia</i> , 2020 , 68, 407-421	9	66
245	Fluorescent Antibiotics: New Research Tools to Fight Antibiotic Resistance. <i>Trends in Biotechnology</i> , 2018 , 36, 523-536	15.1	63
244	Mucin Binding Reduces Colistin Antimicrobial Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 5925-31	5.9	62

243	Piezoelectric sensors based on molecular imprinted polymers for detection of low molecular mass analytes. <i>FEBS Journal</i> , 2007 , 274, 5471-80	5.7	60
242	Non-optical screening platforms: the next wave in label-free screening?. <i>Drug Discovery Today</i> , 2006 , 11, 1068-74	8.8	59
241	Genotype-by-management interactions for grain yield and grain protein concentration of wheat. <i>Field Crops Research</i> , 2001 , 69, 47-67	5.5	59
240	Streaming algorithms for identification of pathogens and antibiotic resistance potential from real-time MinION(TM) sequencing. <i>GigaScience</i> , 2016 , 5, 32	7.6	58
239	An "Unlikely" Pair: The Antimicrobial Synergy of Polymyxin B in Combination with the Cystic Fibrosis Transmembrane Conductance Regulator Drugs KALYDECO and ORKAMBI. <i>ACS Infectious Diseases</i> , 2016 , 2, 478-88	5.5	57
238	Strain- and host species-specific inflammasome activation, IL-1 β release, and cell death in macrophages infected with uropathogenic Escherichia coli. <i>Mucosal Immunology</i> , 2016 , 9, 124-36	9.2	57
237	Interleukin-10 regulates the inflammasome-driven augmentation of inflammatory arthritis and joint destruction. <i>Arthritis Research and Therapy</i> , 2014 , 16, 419	5.7	56
236	G-quadruplex-specific peptide-hemicyanine ligands by partial combinatorial selection. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5594-5	16.4	55
235	Whole genome sequence analysis of the first Australian OXA-48-producing outbreak-associated Klebsiella pneumoniae isolates: the resistome and in vivo evolution. <i>PLoS ONE</i> , 2013 , 8, e59920	3.7	55
234	Specific inhibition of NLRP3 in chikungunya disease reveals a role for inflammasomes in alphavirus-induced inflammation. <i>Nature Microbiology</i> , 2017 , 2, 1435-1445	26.6	54
233	Synergistic killing of NDM-producing MDR Klebsiella pneumoniae by two 'old' antibiotics-polymyxin B and chloramphenicol. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2589-97	5.1	54
232	PB1-F2 Peptide Derived from Avian Influenza A Virus H7N9 Induces Inflammation via Activation of the NLRP3 Inflammasome. <i>Journal of Biological Chemistry</i> , 2017 , 292, 826-836	5.4	53
231	A novel method of resistance for influenza against a channel-blocking antiviral drug. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 55, 251-7	4.2	53
230	Sr/Ca in multiple species of planktonic foraminifera: Implications for reconstructions of seawater Sr/Ca. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a	3.6	53
229	Shaping Nanoparticles with Hydrophilic Compositions and Hydrophobic Properties as Nanocarriers for Antibiotic Delivery. <i>ACS Central Science</i> , 2015 , 1, 328-34	16.8	52
228	Oncogenic Kras causes myeloproliferation via NLRP3 inflammasome activation. <i>Nature Communications</i> , 2020 , 11, 1659	17.4	52
227	Surface-stress sensors for rapid and ultrasensitive detection of active free drugs in human serum. <i>Nature Nanotechnology</i> , 2014 , 9, 225-32	28.7	52
226	The salt dependence of DNA recognition by NF-kappaB p50: a detailed kinetic analysis of the effects on affinity and specificity. <i>Nucleic Acids Research</i> , 1999 , 27, 1063-9	20.1	51

225	An amphipathic peptide with antibiotic activity against multidrug-resistant Gram-negative bacteria. <i>Nature Communications</i> , 2020 , 11, 3184	17.4	50
224	Antibacterial Low Molecular Weight Cationic Polymers: Dissecting the Contribution of Hydrophobicity, Chain Length and Charge to Activity. <i>RSC Advances</i> , 2016 , 6, 15469-15477	3.7	50
223	The orientation of the antibiotic peptide maculatin 1.1 in DMPG and DMPC lipid bilayers. Support for a pore-forming mechanism. <i>FEBS Letters</i> , 2002 , 512, 47-51	3.8	50
222	Binding of an inhibitor of the p53/MDM2 interaction to MDM2. <i>Chemical Communications</i> , 2003 , 316-7	5.8	49
221	Kinetic analysis of antibody-antigen interactions at a supported lipid monolayer. <i>Analytical Biochemistry</i> , 1999 , 276, 36-47	3.1	49
220	Quantification of NS1 dengue biomarker in serum via optomagnetic nanocluster detection. <i>Scientific Reports</i> , 2015 , 5, 16145	4.9	48
219	Bacillus thuringiensis Cry1Ac toxin interaction with Manduca sexta aminopeptidase N in a model membrane environment. <i>Biochemical Journal</i> , 1998 , 333 (Pt 3), 677-83	3.8	48
218	Structure-Activity and -Toxicity Relationships of the Antimicrobial Peptide Tachyplesin-1. <i>ACS Infectious Diseases</i> , 2017 , 3, 917-926	5.5	47
217	Surface changes and polymyxin interactions with a resistant strain of Klebsiella pneumoniae. <i>Innate Immunity</i> , 2014 , 20, 350-63	2.7	47
216	Evaluation of biomarkers for in vitro prediction of drug-induced nephrotoxicity: comparison of HK-2, immortalized human proximal tubule epithelial, and primary cultures of human proximal tubular cells. <i>Pharmacology Research and Perspectives</i> , 2015 , 3, e00148	3.1	47
215	Binding of vancomycin group antibiotics to D-alanine and D-lactate presenting self-assembled monolayers. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 2609-16	3.4	47
214	Discovery of functionally selective C5aR2 ligands: novel modulators of C5a signalling. <i>Immunology and Cell Biology</i> , 2016 , 94, 787-95	5	47
213	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. <i>Cell Chemical Biology</i> , 2018 , 25, 380-391.e5	8.2	44
212	Pathway-selective antagonism of proteinase activated receptor 2. <i>British Journal of Pharmacology</i> , 2014 , 171, 4112-24	8.6	43
211	Direct quantification of analyte concentration by resonant acoustic profiling. <i>Clinical Chemistry</i> , 2005 , 51, 1962-72	5.5	42
210	C5a2 can modulate ERK1/2 signaling in macrophages via heteromer formation with C5a1 and EArrestin recruitment. <i>Immunology and Cell Biology</i> , 2014 , 92, 631-9	5	41
209	Cell- and biomarker-based assays for predicting nephrotoxicity. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2014 , 10, 1621-35	5.5	41
208	Drug-likeness and increased hydrophobicity of commercially available compound libraries for drug screening. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 1500-13	3	40

207	Antibacterial serrulatane diterpenes from the Australian native plant <i>Eremophila microtheca</i> . <i>Phytochemistry</i> , 2013 , 93, 162-9	4	39
206	Metronidazole-triazole conjugates: activity against <i>Clostridium difficile</i> and parasites. <i>European Journal of Medicinal Chemistry</i> , 2015 , 101, 96-102	6.8	38
205	The antigenic architecture of the hemagglutinin of influenza H5N1 viruses. <i>Molecular Immunology</i> , 2013 , 56, 705-19	4.3	38
204	Oligonucleotide and polymer functionalized nanoparticles for amplification-free detection of DNA. <i>Biomacromolecules</i> , 2012 , 13, 1981-9	6.9	38
203	Timed-release polymer nanoparticles. <i>Biomacromolecules</i> , 2013 , 14, 495-502	6.9	38
202	Some vocabulary and grammar for the analysis of multi-environment trials, as applied to the analysis of FPB and PPB trials. <i>Euphytica</i> , 2001 , 122, 477-490	2.1	38
201	NLRP3-inflammasome inhibition prevents high fat and high sugar diets-induced heart damage through autophagy induction. <i>Oncotarget</i> , 2017 , 8, 99740-99756	3.3	37
200	High Affinity Surface Binding of a Strongly Dimerizing Vancomycin-Group Antibiotic to a Model of Resistant Bacteria. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5259-5265	16.4	37
199	Targeting the NLRP3 Inflammasome With Inhibitor MCC950 Prevents Aortic Aneurysms and Dissections in Mice. <i>Journal of the American Heart Association</i> , 2020 , 9, e014044	6	37
198	Nitroimidazole carboxamides as antiparasitic agents targeting <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> and <i>Trichomonas vaginalis</i> . <i>European Journal of Medicinal Chemistry</i> , 2016 , 120, 353-62	6.8	36
197	C5a, but not C5a-des Arg, induces upregulation of heteromer formation between complement C5a receptors C5aR and C5L2. <i>Immunology and Cell Biology</i> , 2013 , 91, 625-33	5	35
196	Pressor response to angiotensin II is enhanced in aged mice and associated with inflammation, vasoconstriction and oxidative stress. <i>Aging</i> , 2017 , 9, 1595-1606	5.6	35
195	TET2-Loss-of-Function-Driven Clonal Hematopoiesis Exacerbates Experimental Insulin Resistance in Aging and Obesity. <i>Cell Reports</i> , 2020 , 33, 108326	10.6	35
194	A new antibiotic with potent activity targets MscL. <i>Journal of Antibiotics</i> , 2015 , 68, 453-62	3.7	34
193	Danger-associated extracellular ATP counters MDSC therapeutic efficacy in acute GVHD. <i>Blood</i> , 2019 , 134, 1670-1682	2.2	33
192	Ramoplanin at bactericidal concentrations induces bacterial membrane depolarization in <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 6819-27	5.9	33
191	Fine tuning the disassembly time of thermoresponsive polymer nanoparticles. <i>Biomacromolecules</i> , 2013 , 14, 3463-71	6.9	33
190	A high sensitivity assay for the inflammatory marker C-Reactive protein employing acoustic biosensing. <i>Journal of Nanobiotechnology</i> , 2008 , 6, 5	9.4	33

189	Biosensor profiling of molecular interactions in pharmacology. <i>Current Opinion in Pharmacology</i> , 2003 , 3, 557-62	5.1	33
188	Increased Endovascular Staphylococcus aureus Inoculum Is the Link Between Elevated Serum Interleukin 10 Concentrations and Mortality in Patients With Bacteremia. <i>Clinical Infectious Diseases</i> , 2017 , 64, 1406-1412	11.6	32
187	From Breast Cancer to Antimicrobial: Combating Extremely Resistant Gram-Negative "Superbugs" Using Novel Combinations of Polymyxin B with Selective Estrogen Receptor Modulators. <i>Microbial Drug Resistance</i> , 2017 , 23, 640-650	2.9	32
186	Cationic Acrylate Oligomers Comprising Amino Acid Mimic Moieties Demonstrate Improved Antibacterial Killing Efficiency. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 531-536	7.3	32
185	A community-based approach to new antibiotic discovery. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 587-604	8.1	32
184	Pharmacological inhibition of the NLRP3 inflammasome as a potential target for multiple sclerosis induced central neuropathic pain. <i>Inflammopharmacology</i> , 2018 , 26, 77-86	5.1	32
183	Structure-activity relationships for the binding of polymyxins with human α -acid glycoprotein. <i>Biochemical Pharmacology</i> , 2012 , 84, 278-91	6	32
182	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. <i>ChemMedChem</i> , 2017 , 12, 1449-1457	3.7	32
181	Pharmacological targeting of the transcription factor SOX18 delays breast cancer in mice. <i>ELife</i> , 2017 , 6,	8.9	32
180	Surface plasmon resonance analysis of glycopeptide antibiotic activity at a model membrane surface. <i>Chemical Communications</i> , 1997 , 1625-1626	5.8	31
179	The Endoplasmic Reticulum-Mitochondrion Tether ERMES Orchestrates Fungal Immune Evasion, Illuminating Inflammasome Responses to Hyphal Signals. <i>MSphere</i> , 2016 , 1,	5	31
178	Fluorescent Trimethoprim Conjugate Probes To Assess Drug Accumulation in Wild Type and Mutant Escherichia coli. <i>ACS Infectious Diseases</i> , 2016 , 2, 688-701	5.5	31
177	Polishing the tarnished silver bullet: the quest for new antibiotics. <i>Essays in Biochemistry</i> , 2017 , 61, 103-114	11.4	30
176	Structural and Functional Characterization of a Cross-Reactive Dengue Virus Neutralizing Antibody that Recognizes a Cryptic Epitope. <i>Structure</i> , 2018 , 26, 51-59.e4	5.2	29
175	Vancomycin: ligand recognition, dimerization and super-complex formation. <i>FEBS Journal</i> , 2013 , 280, 1294-307	5.7	29
174	Identification of antitubercular benzothiazinone compounds by ligand-based design. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 7940-4	8.3	29
173	Using label-free screening technology to improve efficiency in drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2012 , 7, 123-31	6.2	29
172	Small-Molecule Inhibitors of the SOX18 Transcription Factor. <i>Cell Chemical Biology</i> , 2017 , 24, 346-359	8.2	28

171	Conotoxin dendrimers have enhanced potency and selectivity for homomeric nicotinic acetylcholine receptors. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3209-12	16.4	28
170	Ethanol Concentration Influences the Mechanisms of Wine Tannin Interactions with Poly(L-proline) in Model Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 4345-52	5.7	28
169	Variation of the net charge, lipophilicity, and side chain flexibility in Dmt(1)-DALDA: Effect on Opioid Activity and Biodistribution. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 9549-61	8.3	28
168	The effect of environment on the recognition and binding of vancomycin to native and resistant forms of lipid II. <i>Biophysical Journal</i> , 2011 , 101, 2684-92	2.9	28
167	Multifactorial chromosomal variants regulate polymyxin resistance in extensively drug-resistant <i>Klebsiella pneumoniae</i> . <i>Microbial Genomics</i> , 2018 , 4,	4.4	28
166	The NLRP3 Inflammasome Suppresses Protective Immunity to Gastrointestinal Helminth Infection. <i>Cell Reports</i> , 2018 , 23, 1085-1098	10.6	27
165	An azido-oxazolidinone antibiotic for live bacterial cell imaging and generation of antibiotic variants. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 4490-8	3.4	27
164	Molecular basis for the increased polymyxin susceptibility of <i>Klebsiella pneumoniae</i> strains with under-acylated lipid A. <i>Innate Immunity</i> , 2013 , 19, 265-77	2.7	27
163	Redesigned Spider Peptide with Improved Antimicrobial and Anticancer Properties. <i>ACS Chemical Biology</i> , 2017 , 12, 2324-2334	4.9	27
162	Mechanism of the regulation of type IB phosphoinositide 3OH-kinase by G-protein β subunits. <i>Biochemical Journal</i> , 2002 , 362, 725-731	3.8	27
161	Unusual RNA and DNA binding properties of a novel pyrrolidine-imide oligonucleotide mimic (POM). <i>Chemical Communications</i> , 2000 , 2251-2252	5.8	27
160	Drug-drug plasma protein binding interactions of ivacaftor. <i>Journal of Molecular Recognition</i> , 2015 , 28, 339-48	2.6	26
159	Natural product libraries: assembly, maintenance, and screening. <i>Planta Medica</i> , 2014 , 80, 1161-70	3.1	26
158	Comparison of surface plasmon resonance, resonant waveguide grating biosensing and enzyme linked immunosorbent assay (ELISA) in the evaluation of a dengue virus immunoassay. <i>Biosensors</i> , 2013 , 3, 297-311	5.9	26
157	Chemical force microscopy with active enzymes. <i>Biophysical Journal</i> , 2001 , 80, 2471-6	2.9	26
156	Structure aided design of chimeric antibiotics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 2428-2433	2.3	25
155	Effects of Microplate Type and Broth Additives on Microdilution MIC Susceptibility Assays. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	25
154	Enhancement of antibiotic-activity through complexation with metal ions - Combined ITC, NMR, enzymatic and biological studies. <i>Journal of Inorganic Biochemistry</i> , 2017 , 167, 134-141	4.2	24

153	Carbohydrate scaffolds as glycosyltransferase inhibitors with in vivo antibacterial activity. <i>Nature Communications</i> , 2015 , 6, 7719	17.4	24
152	Probing the reactivity of o-phthalaldehydic acid/methyl ester: synthesis of N-isoindolinones and 3-arylamino-phthalides. <i>Chemical Communications</i> , 2013 , 49, 8407-9	5.8	24
151	A biophysical characterisation of factors controlling dimerisation and selectivity in the NF-kappaB and NFAT families. <i>Journal of Molecular Biology</i> , 2004 , 339, 1059-75	6.5	24
150	In vitro Antimicrobial Activity of Acne Drugs Against Skin-Associated Bacteria. <i>Scientific Reports</i> , 2019 , 9, 14658	4.9	23
149	Direct acoustic profiling of DNA hybridisation using HSV type 1 viral sequences. <i>Analyst, The</i> , 2008 , 133, 52-7	5	23
148	Pharmacological Inhibition of the Nod-Like Receptor Family Pyrin Domain Containing 3 Inflammasome with MCC950. <i>Pharmacological Reviews</i> , 2021 , 73, 968-1000	22.5	23
147	Short cationic lipopeptides as effective antibacterial agents: Design, physicochemical properties and biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 2235-41	3.4	23
146	Identification, Synthesis, and Biological Evaluation of the Major Human Metabolite of NLRP3 Inflammasome Inhibitor MCC950. <i>ACS Medicinal Chemistry Letters</i> , 2016 , 7, 1034-1038	4.3	23
145	The Eagle Effect and Antibiotic-Induced Persistence: Two Sides of the Same Coin?. <i>Trends in Microbiology</i> , 2019 , 27, 339-354	12.4	23
144	NLRP3 Inflammasome Inhibition by MCC950 in Aged Mice Improves Health via Enhanced Autophagy and PPAR α Activity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 1457-1464	6.4	23
143	Realtime analysis and visualization of MinION sequencing data with npReader. <i>Bioinformatics</i> , 2016 , 32, 764-6	7.2	22
142	Membrane binding and perturbation studies of the antimicrobial peptides caerin, citropin, and maculatin. <i>Biopolymers</i> , 2011 , 96, 147-57	2.2	22
141	Synthesis of N-acylaziridines from α -amido selenides. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001 , 944-945		22
140	A generic screening platform for inhibitors of virus induced cell fusion using cellular electrical impedance. <i>Scientific Reports</i> , 2016 , 6, 22791	4.9	22
139	Myrtoxin-Mp1a is a Helical Heterodimer from the Venom of the Jack Jumper Ant that has Antimicrobial, Membrane-Disrupting, and Nociceptive Activities. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8495-8499	16.4	21
138	Efficient synthesis of anacardic acid analogues and their antibacterial activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 1667-70	2.9	21
137	Quantitative detection of staphylococcal enterotoxin B by resonant acoustic profiling. <i>Analytical Chemistry</i> , 2009 , 81, 3896-902	7.8	21
136	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. <i>ACS Infectious Diseases</i> , 2017 , 3, 606-619	5.5	20

135	Amplification free detection of herpes simplex virus DNA. <i>Analyst, The</i> , 2011 , 136, 1599-607	5	20
134	Screening strategies to identify new antibiotics. <i>Current Drug Targets</i> , 2012 , 13, 373-87	3	19
133	Elucidating the effect of sequence and degree of polymerization on antimicrobial properties for block copolymers. <i>Polymer Chemistry</i> , 2020 , 11, 84-90	4.9	19
132	Complete Genome Sequence of <i>Klebsiella quasipneumoniae</i> subsp. <i>similipneumoniae</i> Strain ATCC 700603. <i>Genome Announcements</i> , 2016 , 4,		19
131	Role of the NLRP3 inflammasome in a model of acute burn-induced pain. <i>Burns</i> , 2017 , 43, 304-309	2.3	18
130	Drug-binding energetics of human α 1-acid glycoprotein assessed by isothermal titration calorimetry and molecular docking simulations. <i>Journal of Molecular Recognition</i> , 2012 , 25, 642-56	2.6	18
129	Measurement of drug lipophilicity and pKa using acoustics. <i>Analytical Chemistry</i> , 2012 , 84, 2609-13	7.8	18
128	Molecular Characterization of Lipopolysaccharide Binding to Human α 1-Acid Glycoprotein. <i>Journal of Lipids</i> , 2012 , 2012, 475153	2.7	18
127	Resolving biofilm infections: current therapy and drug discovery strategies. <i>Current Drug Targets</i> , 2012 , 13, 1375-85	3	18
126	Biosensing using rupture event scanning (REVS) \square <i>Measurement Science and Technology</i> , 2003 , 14, 1888-1893		18
125	Hydroxyselenation of allylic alcohols. <i>Tetrahedron Letters</i> , 1995 , 36, 2327-2330	2	18
124	Chemical philanthropy: a path forward for antibiotic discovery?. <i>Future Medicinal Chemistry</i> , 2016 , 8, 925-931	4.1	18
123	Surface Ligand Density of Antibiotic-Nanoparticle Conjugates Enhances Target Avidity and Membrane Permeabilization of Vancomycin-Resistant Bacteria. <i>Bioconjugate Chemistry</i> , 2017 , 28, 353-361	6.3	17
122	Discovery of novel pneumococcal surface antigen A (PsaA) inhibitors using a fragment-based drug design approach. <i>ACS Chemical Biology</i> , 2015 , 10, 1511-20	4.9	17
121	Synthesis of essramycin and comparison of its antibacterial activity. <i>Journal of Natural Products</i> , 2010 , 73, 1940-2	4.9	17
120	Design, synthesis, conformational analysis and nucleic acid hybridisation properties of thymidyl pyrrolidine-amide oligonucleotide mimics (POM). <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 3277-92	3.9	17
119	Selenium induced stereoselective cyclization of N-protected 3-hydroxy-4-pentenylamines. <i>Tetrahedron Letters</i> , 1992 , 33, 5999-6002	2	17
118	A nanoparticle-based method for culture-free bacterial DNA enrichment from whole blood. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 150-155	11.8	16

117	In vivo evolution of antimicrobial resistance in a series of Staphylococcus aureus patient isolates: the entire picture or a cautionary tale?. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 363-7	5.1	16
116	Anti-cooperative ligand binding and dimerisation in the glycopeptide antibiotic dalbavancin. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 2568-75	3.9	16
115	19F NMR in the measurement of binding affinities of chloroeremomycin to model bacterial cell-wall surfaces that mimic VanA and VanB resistance. <i>Chemistry and Biology</i> , 1998 , 5, 329-37		16
114	Profiling of molecular interactions in real time using acoustic detection. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2382-6	11.8	16
113	Mechanism of the regulation of type IB phosphoinositide 3OH-kinase by G-protein betagamma subunits. <i>Biochemical Journal</i> , 2002 , 362, 725-31	3.8	16
112	Selenium induced stereoselective cyclization of N-substituted-4-hydroxy-5-hexenylamines. <i>Tetrahedron Letters</i> , 1994 , 35, 5065-5068	2	16
111	Light-Activated Rhenium Complexes with Dual Mode of Action against Bacteria. <i>Chemistry - A European Journal</i> , 2020 , 26, 2852-2858	4.8	15
110	Synthesis of octapeptin C4 and biological profiling against NDM-1 and polymyxin-resistant bacteria. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 2407-2409	2.9	14
109	Structure-Function Studies of Polymyxin B Liponapeptides. <i>Molecules</i> , 2019 , 24,	4.8	14
108	Fluoroquinolone-derived fluorescent probes for studies of bacterial penetration and efflux. <i>MedChemComm</i> , 2019 , 10, 901-906	5	14
107	Non-canonical Caspase-1 Signaling Drives RIP2-Dependent and TNF- α -Mediated Inflammation In Vivo. <i>Cell Reports</i> , 2020 , 30, 2501-2511.e5	10.6	14
106	Lipoamino acids as major components of absorption promoters in drug delivery. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 1562-80	3	14
105	Formation of dihydroxyselenides from allylic alcohols and their conversion to β -hydroxy epoxides via substitution of a phenylselenonyl group. <i>Tetrahedron</i> , 2004 , 60, 7963-7972	2.4	14
104	Platinum-based anticancer drugs encapsulated liposome and polymeric micelle formulation in clinical trials. <i>Biochemical Compounds</i> , 2016 , 4, 1		14
103	Plasma Protein Binding Structure-Activity Relationships Related to the N-Terminus of Daptomycin. <i>ACS Infectious Diseases</i> , 2017 , 3, 249-258	5.5	13
102	GMP Synthase Is Required for Virulence Factor Production and Infection by. <i>Journal of Biological Chemistry</i> , 2017 , 292, 3049-3059	5.4	13
101	Evaluating the genome and resistome of extensively drug-resistant Klebsiella pneumoniae using native DNA and RNA Nanopore sequencing. <i>GigaScience</i> , 2020 , 9,	7.6	13
100	Disruption of de Novo Adenosine Triphosphate (ATP) Biosynthesis Abolishes Virulence in Cryptococcus neoformans. <i>ACS Infectious Diseases</i> , 2016 , 2, 651-663	5.5	13

99	A paramagnetic-reporter two-particle system for amplification-free detection of DNA in serum. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 499-501	11.8	13
98	A Comparative Study of Impedance versus Optical Label-Free Systems Relative to Labelled Assays in a Predominantly Gi Coupled GPCR (C5aR) Signalling. <i>Biosensors</i> , 2012 , 2, 273-90	5.9	13
97	A signal amplification assay for HSV type 1 viral DNA detection using nanoparticles and direct acoustic profiling. <i>Journal of Nanobiotechnology</i> , 2010 , 8, 3	9.4	13
96	Synthesis and Substitution Reactions of N-Protected 2-(Phenylselenonylmethyl)pyrrolidines. <i>Australian Journal of Chemistry</i> , 1997 , 50, 181	1.2	13
95	Improved Immunoassay Sensitivity in Serum as a Result of Polymer-Entrapped Quantum Dots: 'Papaya Particles'. <i>Analytical Chemistry</i> , 2015 , 87, 6150-7	7.8	12
94	Old dogs and new tricks in antimicrobial discovery. <i>Current Opinion in Microbiology</i> , 2016 , 33, 25-34	7.9	12
93	Detection and Investigation of Eagle Effect Resistance to Vancomycin in With an ATP-Bioluminescence Assay. <i>Frontiers in Microbiology</i> , 2018 , 9, 1420	5.7	12
92	Derivation of ligands for the complement C3a receptor from the C-terminus of C5a. <i>European Journal of Pharmacology</i> , 2014 , 745, 176-81	5.3	12
91	Modelling Plant Breeding Programs as Search Strategies on a Complex Response Surface. <i>Lecture Notes in Computer Science</i> , 1999 , 171-178	0.9	12
90	Fluorescent macrolide probes - synthesis and use in evaluation of bacterial resistance. <i>RSC Chemical Biology</i> , 2020 , 1, 395-404	3	12
89	Design, Synthesis, and Biological Evaluation of 2-Nitroimidazopyrazin-one/-es with Antitubercular and Antiparasitic Activity. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 11349-11371	8.3	12
88	Norbornane-based cationic antimicrobial peptidomimetics targeting the bacterial membrane. <i>European Journal of Medicinal Chemistry</i> , 2018 , 160, 9-22	6.8	12
87	Exploiting Macromolecular Design To Optimize the Antibacterial Activity of Alkylated Cationic Oligomers. <i>Biomacromolecules</i> , 2018 , 19, 4629-4640	6.9	12
86	Antibacterial and antifungal screening of natural products sourced from Australian fungi and characterisation of pestalactams D-F. <i>Phytochemistry</i> , 2016 , 124, 79-85	4	11
85	Can octapeptin antibiotics combat extensively drug-resistant (XDR) bacteria?. <i>Expert Review of Anti-Infective Therapy</i> , 2018 , 16, 485-499	5.5	11
84	Octapeptin C4 and polymyxin resistance occur via distinct pathways in an epidemic XDR <i>Klebsiella pneumoniae</i> ST258 isolate. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 582-593	5.1	11
83	Elucidating the Lipid Binding Properties of Membrane-Active Peptides Using Cyclised Nanodiscs. <i>Frontiers in Chemistry</i> , 2019 , 7, 238	5	10
82	Synthesis of Norbornane Bisether Antibiotics via Silver-mediated Alkylation. <i>RSC Advances</i> , 2015 , 5, 28582-28596	3.7	10

81	Synthesis and evaluation of cationic norbornanes as peptidomimetic antibacterial agents. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 6225-41	3.9	10
80	Signal transduction profiling using label-free biosensors. <i>Journal of Receptor and Signal Transduction Research</i> , 2009 , 29, 224-33	2.6	10
79	Profiling molecular interactions using label-free acoustic screening. <i>Drug Discovery Today: Technologies</i> , 2005 , 2, 241-5	7.1	10
78	The Reactions of N-Substituted 2-(Dimethylallyl)aniline Compounds with Phenylselenyl Halides. <i>Australian Journal of Chemistry</i> , 2000 , 53, 123	1.2	10
77	ADS lyase is an enzyme essential for virulence whose crystal structure reveals features exploitable in antifungal drug design. <i>Journal of Biological Chemistry</i> , 2017 , 292, 11829-11839	5.4	9
76	Flemingin-Type Prenylated Chalcones from the Sarawak Rainforest Plant <i>Desmodium congestum</i> . <i>Journal of Natural Products</i> , 2015 , 78, 2141-4	4.9	9
75	Self-assembling lipopeptides with a potent activity against Gram-positive bacteria, including multidrug resistant strains. <i>Nanomedicine</i> , 2015 , 10, 3359-71	5.6	9
74	How to Stimulate and Facilitate Early Stage Antibiotic Discovery. <i>ACS Infectious Diseases</i> , 2020 , 6, 1302-1304	3.9	9
73	Multiple inflammasomes may regulate the interleukin-1-driven inflammation in protracted bacterial bronchitis. <i>ERJ Open Research</i> , 2018 , 4,	3.5	9
72	Quantification of small molecule-receptor affinities and kinetics by acoustic profiling. <i>Assay and Drug Development Technologies</i> , 2006 , 4, 565-73	2.1	9
71	Antibacterial Nerol Cinnamates from the Australian Plant <i>Eremophila longifolia</i> . <i>Journal of Natural Products</i> , 2017 , 80, 1178-1181	4.9	8
70	Improving Drought Tolerance in Maize 2010 , 173-253		8
69	Scaffolding and Completing Genome Assemblies in Real-time with Nanopore Sequencing		8
68	An optimised Cu(0)-RDRP approach for the synthesis of lipidated oligomeric vinyl azlactone: toward a versatile antimicrobial materials screening platform. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 6796-6809	7.3	8
67	Human β -defensin-2 suppresses key features of asthma in murine models of allergic airways disease. <i>Clinical and Experimental Allergy</i> , 2021 , 51, 120-131	4.1	8
66	Surface mediated cooperative interactions of drugs enhance mechanical forces for antibiotic action. <i>Scientific Reports</i> , 2017 , 7, 41206	4.9	7
65	Evaluation of direct versus multi-layer passivation and capture chemistries for nanoparticle-based biosensor applications. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 769-74	11.8	7
64	Antitubercular and Antiparasitic 2-Nitroimidazopyrazinones with Improved Potency and Solubility. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 15726-15751	8.3	7

63	Separation and detection of bacteria using rupture event scanning. <i>Analytica Chimica Acta</i> , 2011 , 702, 233-8	6.6	7
62	Interleukin-1 β suppression dampens inflammatory leukocyte production and uptake in atherosclerosis. <i>Cardiovascular Research</i> , 2021 ,	9.9	7
61	Mesoporous Silica Nanoparticles Improve Oral Delivery of Antitubercular Bicyclic Nitroimidazoles. <i>ACS Biomaterials Science and Engineering</i> , 2021 ,	5.5	7
60	Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. <i>Australian Journal of Chemistry</i> , 2017 , 70, 162	1.2	6
59	Facile synthesis of mono- and bis-methylated Fmoc-Dap, -Dab and -Orn amino acids. <i>Chemical Communications</i> , 2015 , 51, 4496-8	5.8	6
58	Transcriptomic responses of a New Delhi metallo- β -lactamase-producing <i>Klebsiella pneumoniae</i> isolate to the combination of polymyxin B and chloramphenicol. <i>International Journal of Antimicrobial Agents</i> , 2020 , 56, 106061	14.3	6
57	Flow-cytometry detection of fluorescent magnetic nanoparticle clusters increases sensitivity of dengue immunoassay. <i>Analytica Chimica Acta</i> , 2020 , 1107, 85-91	6.6	6
56	Discovery of Cephalosporin-3'-Diazeniumdiolates That Show Dual Antibacterial and Antibiofilm Effects against Clinical Cystic Fibrosis Isolates and Efficacy in a Murine Respiratory Infection Model. <i>ACS Infectious Diseases</i> , 2020 , 6, 1460-1479	5.5	6
55	CD8 lineage dendritic cells determine adaptive immune responses to inflammasome activation upon sterile skin injury. <i>Experimental Dermatology</i> , 2018 , 27, 71-79	4	6
54	Does the Sauerbrey equation hold true for binding of peptides and globular proteins to a QCM?. <i>Sensing and Bio-Sensing Research</i> , 2016 , 11, 71-77	3.3	6
53	2011 ,		6
52	Vancomycin dimer formation between analogues of bacterial peptidoglycan surfaces probed by force spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 1142-8	3.9	6
51	Real-time label-free acoustic technology for rapid detection of <i>Escherichia coli</i> O157:H7. <i>Clinical Chemistry</i> , 2006 , 52, 2148-51	5.5	6
50	The Photodynamic Therapy (PDT) Anticancer Activity of a Range of Porphyrin Dimers and Related Compounds Derived from Hematoporphyrin. <i>Australian Journal of Chemistry</i> , 2004 , 57, 1091	1.2	6
49	The Plasma Protein Binding Proteome of Ertapenem: A Novel Compound-Centric Proteomic Approach for Elucidating Drug-Plasma Protein Binding Interactions. <i>ACS Chemical Biology</i> , 2016 , 11, 3353-3364	4.9	6
48	An optimized whole blood assay measuring expression and activity of NLRP3, NLRC4 and AIM2 inflammasomes. <i>Clinical Immunology</i> , 2018 , 191, 100-109	9	6
47	Antifungal benzo[b]thiophene 1,1-dioxide IMPDH inhibitors exhibit pan-assay interference (PAINS) profiles. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 5408-5419	3.4	6
46	Synthesis of deuterium-labelled analogues of NLRP3 inflammasome inhibitor MCC950. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 793-795	2.9	5

45	Semi-synthesis and NMR spectral assignments of flavonoid and chalcone derivatives. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 880-886	2.1	5
44	Genotype Environment Interactions, Selection Response and Heterosis. <i>Assa, Cssa and Sssa</i> , 2015 , 81-92	0.3	5
43	High-throughput analysis of biomolecular interactions and cellular responses with resonant waveguide grating biosensors	206-222	5
42	Single-step biocompatible coating for sulfhydryl coupling of receptors using 2-(pyridinyldithio)ethylcarbonyl dextran. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 61, 113-7	6	5
41	Streaming algorithms for identification of pathogens and antibiotic resistance potential from real-time MinION™ sequencing		5
40	Acetate protects against intestinal ischemia-reperfusion injury independent of its cognate free fatty acid 2 receptor. <i>FASEB Journal</i> , 2020 , 34, 10418-10430	0.9	5
39	Antimicrobial Octapeptin C4 Analogues Active against Cryptococcus Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	5
38	The Small Molecule NLRP3 Inflammasome Inhibitor MCC950 Does Not Alter Wound Healing in Obese Mice. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	5
37	The Growing Influence of Nanotechnology in Our Lives	2017, 1-20	4
36	Molecular Characterisation of the Haemagglutinin Glycan-Binding Specificity of Egg-Adapted Vaccine Strains of the Pandemic 2009 H1N1 Swine Influenza A Virus. <i>Molecules</i> , 2015 , 20, 10415-34	4.8	4
35	QCM-based rapid analysis of DNA. <i>Sensing and Bio-Sensing Research</i> , 2015 , 4, 11-15	3.3	4
34	Cyclizations using Selenium Chemistry for Substituted 3-Hydroxypiperidines and 3-Hydroxypyrrolidines. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1327	1.2	4
33	Characterisation of small molecule ligands 4CMTB and 2CTAP as modulators of human FFA2 receptor signalling. <i>Scientific Reports</i> , 2018 , 8, 17819	4.9	4
32	A template guided approach to generating cell permeable inhibitors of Staphylococcus aureus biotin protein ligase. <i>Tetrahedron</i> , 2018 , 74, 1175-1183	2.4	3
31	Monoacetylation of Carbohydrate Diols via Transesterification with Ethyl Acetate. <i>Australian Journal of Chemistry</i> , 2014 , 67, 679	1.2	3
30	Kinetically selective binding of single stranded RNA over DNA by a pyrrolidine-amide oligonucleotide mimic (POM). <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001 , 20, 1169-72	1.4	3
29	Label-Free Technologies: Which Technique to Use and What to Watch Out for!. <i>Methods in Pharmacology and Toxicology</i> , 2015 , 3-15	1.1	3
28	Quantitation of Purines from Pigeon Guano and Implications for Cryptococcus neoformans Survival During Infection. <i>Mycopathologia</i> , 2019 , 184, 273-281	2.9	3

27	Clostridium difficile Infection: Current and Emerging Therapeutics. <i>Current Treatment Options in Infectious Diseases</i> , 2015 , 7, 317-334	1	2
26	Affinities and in-plane stress forces between glycopeptide antibiotics and biomimetic bacterial membranes. <i>Sensing and Bio-Sensing Research</i> , 2015 , 3, 24-30	3.3	2
25	The Revolution of Real-Time, Label-Free Biosensor Applications 2011 , 1-25		2
24	Akubio: label-free screening of molecular interactions using acoustic detection. <i>Drug Discovery Today</i> , 2002 , 7, S5-S7	8.8	2
23	The NLRP3 inhibitor MCC950 inhibits IL-1 β production in PBMC from 19 patients with Cryopyrin-Associated Periodic Syndrome and in 2 patients with Schnitzler's Syndrome. <i>Wellcome Open Research</i> , 5 , 247	4.8	2
22	Antibiotic-derived molecular probes for bacterial imaging 2019 ,		2
21	Multi-Institution Research and Education Collaboration Identifies New Antimicrobial Compounds. <i>ACS Chemical Biology</i> , 2020 , 15, 3187-3196	4.9	2
20	Activity of Vancaptacin MCC5145 against Methicillin-Resistant from Periprosthetic Joint Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 ,	5.9	2
19	Aim2 suppresses cigarette smoke-induced neutrophil recruitment, neutrophil caspase-1 activation and anti-Ly6G-mediated neutrophil depletion.. <i>Immunology and Cell Biology</i> , 2022 ,	5	2
18	Visualization of Bacterial Resistance using Fluorescent Antibiotic Probes. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	1
17	Dynamic and Label-Free Cell-Based Assays Using the xCELLigence System 2011 , 71-81		1
16	Use of Label-Free Detection Technologies in the Hit-to-Lead Process: Surface Optical Detection of Cellular Processes 2011 , 189-203		1
15	Cellular Screening for 7TM Receptors Using Label-Free Detection 2011 , 205-222		1
14	Sensor surfaces and receptor deposition 110-142		1
13	Resonant Acoustic Profiling (RAP) and Rupture Event Scanning (REVS) 2006 , 449-479		1
12	Towards a generic prototyping approach for therapeutically-relevant peptides and proteins in a cell-free translation system.. <i>Nature Communications</i> , 2022 , 13, 260	17.4	1
11	Solid-Phase Synthesis of Octapeptin Lipopeptides. <i>Methods in Molecular Biology</i> , 2020 , 2103, 199-213	1.4	1
10	Resonant Acoustic Profiling (RAP) and Rupture Event Scanning (REVS) 2006 , 449		1

9	Octapeptin C4 Induces Less Resistance and Novel Mutations in an Epidemic Carbapenemase-producing <i>Klebsiella pneumoniae</i> ST258 Clinical Isolate Compared to Polymyxins		1
8	Synergy of the Polymyxin-Chloramphenicol Combination against New Delhi Metallo- β -Lactamase-Producing Is Predominately Driven by Chloramphenicol. <i>ACS Infectious Diseases</i> , 2021 , 7, 1584-1595	5.5	1
7	Inhibition of the master regulator of <i>Listeria monocytogenes</i> virulence enables bacterial clearance from spacious replication vacuoles in infected macrophages.. <i>PLoS Pathogens</i> , 2022 , 18, e1010166	7.6	0
6	Investigations into the membrane activity of arenicin antimicrobial peptide AA139.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022 , 130156	4	0
5	Biophysics/Label-Free Assays in Hit Discovery and Verification 2011 , 155-169		
4	A Novel Multiplex SPR Array for Rapid Screening and Affinity Determination of Monoclonal Antibodies: The ProteOn XPR36 Label Free System: Kinetic Screening of Monoclonal Antibodies 2011 , 141-154		
3	Harnessing Optical Label-Free on Microtiter Plates for Lead Finding: From Binding to Phenotypes 2011 , 171-187		
2	Interactions with membranes and membrane receptors 159-178		
1	Nanoparticle sample preparation and mass spectrometry for rapid diagnosis of microbial infections. <i>Microbiology Australia</i> , 2013 , 34, 170	0.8	