Assocâ€prof Mark A T Blaskovich

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2129977/publications.pdf

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134 papers 6,438 citations

76294 40 h-index 76872 74 g-index

161 all docs

161 docs citations

161 times ranked

9127 citing authors

#	Article	IF	CITATIONS
1	Unusual Amino Acids in Medicinal Chemistry. Journal of Medicinal Chemistry, 2016, 59, 10807-10836.	2.9	386
2	Quinolone antibiotics. MedChemComm, 2019, 10, 1719-1739.	3.5	383
3	Antibiotics in the clinical pipeline in 2013. Journal of Antibiotics, 2013, 66, 571-591.	1.0	348
4	Metal complexes as a promising source for new antibiotics. Chemical Science, 2020, 11, 2627-2639.	3.7	290
5	Antibiotics in the clinical pipeline at the end of 2015. Journal of Antibiotics, 2017, 70, 3-24.	1.0	289
6	Antimicrobial Silver in Medicinal and Consumer Applications: A Patent Review of the Past Decade (2007–2017). Antibiotics, 2018, 7, 93.	1.5	240
7	Glycopeptide antibiotics: Back to the future. Journal of Antibiotics, 2014, 67, 631-644.	1.0	221
8	Contribution of Amphipathicity and Hydrophobicity to the Antimicrobial Activity and Cytotoxicity of \hat{l}^2 -Hairpin Peptides. ACS Infectious Diseases, 2016, 2, 442-450.	1.8	191
9	Developments in Glycopeptide Antibiotics. ACS Infectious Diseases, 2018, 4, 715-735.	1.8	185
10	Helping Chemists Discover New Antibiotics. ACS Infectious Diseases, 2015, 1, 285-287.	1.8	176
11	Silver bullets: A new lustre on an old antimicrobial agent. Biotechnology Advances, 2018, 36, 1391-1411.	6.0	118
12	The antimicrobial potential of cannabidiol. Communications Biology, 2021, 4, 7.	2.0	118
13	Nitroimidazoles: Molecular Fireworks That Combat a Broad Spectrum of Infectious Diseases. Journal of Medicinal Chemistry, 2017, 60, 7636-7657.	2.9	116
14	Protein-inspired antibiotics active against vancomycin- and daptomycin-resistant bacteria. Nature Communications, 2018, 9, 22.	5.8	111
15	An amphipathic peptide with antibiotic activity against multidrug-resistant Gram-negative bacteria. Nature Communications, 2020, 11, 3184.	5.8	105
16	<i>Clostridium difficile</i> Drug Pipeline: Challenges in Discovery and Development of New Agents. Journal of Medicinal Chemistry, 2015, 58, 5164-5185.	2.9	99
17	Synthesis of a chiral serine aldehyde equivalent and its conversion to chiral .alphaamino acid derivatives. Journal of the American Chemical Society, 1993, 115, 5021-5030.	6.6	98
18	Drug Discovery and Protein Tyrosine Phosphatases. Current Medicinal Chemistry, 2009, 16, 2095-2176.	1.2	98

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19	Activity and Predicted Nephrotoxicity of Synthetic Antibiotics Based on Polymyxin B. Journal of Medicinal Chemistry, 2016, 59, 1068-1077.	2.9	94
20	Fluorescent Antibiotics: New Research Tools to Fight Antibiotic Resistance. Trends in Biotechnology, 2018, 36, 523-536.	4.9	92
21	Stereoselective Synthesis ofThreoandErythroβ-Hydroxy and β-Disubstituted-β-Hydroxy α-Amino Acids. Journal of Organic Chemistry, 1998, 63, 3631-3646.	1.7	83
22	Mucin Binding Reduces Colistin Antimicrobial Activity. Antimicrobial Agents and Chemotherapy, 2015, 59, 5925-5931.	1.4	82
23	Structure–Activity and â^'Toxicity Relationships of the Antimicrobial Peptide Tachyplesin-1. ACS Infectious Diseases, 2017, 3, 917-926.	1.8	70
24	Discovery of functionally selective C5aR2 ligands: novel modulators of C5a signalling. Immunology and Cell Biology, 2016, 94, 787-795.	1.0	68
25	Recent discovery and development of protein tyrosine phosphatase inhibitors. Expert Opinion on Therapeutic Patents, 2002, 12, 871-905.	2.4	61
26	Evaluation of biomarkers for in vitro prediction of drugâ€induced nephrotoxicity: comparison of <scp>HK</scp> â€2, immortalized human proximal tubule epithelial, and primary cultures of human proximal tubular cells. Pharmacology Research and Perspectives, 2015, 3, e00148.	1.1	59
27	Polishing the tarnished silver bullet: the quest for new antibiotics. Essays in Biochemistry, 2017, 61, 103-114.	2.1	58
28	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. Cell Chemical Biology, 2018, 25, 380-391.e5.	2.5	57
29	Tyrosinase inhibitors as potential antibacterial agents. European Journal of Medicinal Chemistry, 2020, 187, 111892.	2.6	55
30	Highly efficient and versatile synthesis of libraries of constrained \hat{l}^2 -strand mimetics. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 2321-2326.	1.0	50
31	Formulation of Quaternized Aminated Chitosan Nanoparticles for Efficient Encapsulation and Slow Release of Curcumin. Molecules, 2021, 26, 449.	1.7	50
32	Antibacterial serrulatane diterpenes from the Australian native plant Eremophila microtheca. Phytochemistry, 2013, 93, 162-169.	1.4	48
33	Metronidazole-triazole conjugates: Activity against Clostridium difficile and parasites. European Journal of Medicinal Chemistry, 2015, 101, 96-102.	2.6	48
34	Nitroimidazole carboxamides as antiparasitic agents targeting Giardia lamblia, Entamoeba histolytica and Trichomonas vaginalis. European Journal of Medicinal Chemistry, 2016, 120, 353-362.	2.6	47
35	In vitro Antimicrobial Activity of Acne Drugs Against Skin-Associated Bacteria. Scientific Reports, 2019, 9, 14658.	1.6	47
36	A new antibiotic with potent activity targets MscL. Journal of Antibiotics, 2015, 68, 453-462.	1.0	46

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37	Fluorescent Trimethoprim Conjugate Probes To Assess Drug Accumulation in Wild Type and Mutant <i>Escherichia coli </i> . ACS Infectious Diseases, 2016, 2, 688-701.	1.8	45
38	From Breast Cancer to Antimicrobial: Combating Extremely Resistant Gram-Negative "Superbugs―Using Novel Combinations of Polymyxin B with Selective Estrogen Receptor Modulators. Microbial Drug Resistance, 2017, 23, 640-650.	0.9	45
39	Cell- and biomarker-based assays for predicting nephrotoxicity. Expert Opinion on Drug Metabolism and Toxicology, 2014, 10, 1621-1635.	1.5	44
40	Enhancement of antibiotic-activity through complexation with metal ions - Combined ITC, NMR, enzymatic and biological studies. Journal of Inorganic Biochemistry, 2017, 167, 134-141.	1.5	43
41	Effects of Microplate Type and Broth Additives on Microdilution MIC Susceptibility Assays. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	41
42	The Eagle Effect and Antibiotic-Induced Persistence: Two Sides of the Same Coin?. Trends in Microbiology, 2019, 27, 339-354.	3 . 5	40
43	Hydroxyl substituted benzoic acid/cinnamic acid derivatives: Tyrosinase inhibitory kinetics, anti-melanogenic activity and molecular docking studies. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126722.	1.0	40
44	Syzygium cumini(L.), Skeels fruit extracts: In vitro and in vivo anti-inflammatory properties. Journal of Ethnopharmacology, 2021, 271, 113805.	2.0	40
45	Solid-Phase Preparation of Dienes. Journal of Organic Chemistry, 1998, 63, 1119-1125.	1.7	39
46	Stereoselective Synthesis of \hat{l}^2 -Substituted \hat{l}_{\pm},\hat{l}^2 -Diamino Acids from \hat{l}^2 -Hydroxy Amino Acids. Journal of Organic Chemistry, 1999, 64, 6106-6111.	1.7	39
47	Multifactorial chromosomal variants regulate polymyxin resistance in extensively drug-resistant Klebsiella pneumoniae. Microbial Genomics, 2018, 4, .	1.0	39
48	An azido-oxazolidinone antibiotic for live bacterial cell imaging and generation of antibiotic variants. Bioorganic and Medicinal Chemistry, 2014, 22, 4490-4498.	1.4	37
49	Antimicrobial Activity Enhancers: Towards Smart Delivery of Antimicrobial Agents. Antibiotics, 2022, 11, 412.	1.5	37
50	Repurposing a neurodegenerative disease drug to treat Gram-negative antibiotic-resistant bacterial sepsis. Science Translational Medicine, 2020, 12, .	5.8	36
51	Lightâ€Activated Rhenium Complexes with Dual Mode of Action against Bacteria. Chemistry - A European Journal, 2020, 26, 2852-2858.	1.7	34
52	Leveraging the potential of silver nanoparticles-based materials towards sustainable water treatment. Journal of Environmental Management, 2022, 319, 115675.	3.8	33
53	Simple and convenient synthesis of tert-butyl ethers of Fmoc-serine, Fmoc-threonine, and Fmoc-tyrosine. Journal of Organic Chemistry, 1991, 56, 3447-3449.	1.7	32
54	The Fight Against Antimicrobial Resistance Is Confounded by a Global Increase in Antibiotic Usage. ACS Infectious Diseases, 2018, 4, 868-870.	1.8	32

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55	Fast bacterial growth reduces antibiotic accumulation and efficacy. ELife, $0,11,.$	2.8	32
56	Synthesis of enantiomerically enriched \hat{l}^2 , \hat{l}^3 -unsaturated- \hat{l} ±-amino acids. Tetrahedron, 2001, 57, 1497-1507.	1.0	28
57	Fluorescent macrolide probes – synthesis and use in evaluation of bacterial resistance. RSC Chemical Biology, 2020, 1, 395-404.	2.0	28
58	Nontoxic Cobalt(III) Schiff Base Complexes with Broadâ€Spectrum Antifungal Activity. Chemistry - A European Journal, 2021, 27, 2021-2029.	1.7	28
59	Instructive analysis of engineered carbon materials for potential application in water and wastewater treatment. Science of the Total Environment, 2021, 793, 148583.	3.9	28
60	Nanomaterials: The New Antimicrobial Magic Bullet. ACS Infectious Diseases, 2022, 8, 693-712.	1.8	28
61	There is no market for new antibiotics:Âthis allows an open approach toÂresearchÂandÂdevelopment. Wellcome Open Research, 2021, 6, 146.	0.9	27
62	Anti-cooperative ligand binding and dimerisation in the glycopeptide antibiotic dalbavancin. Organic and Biomolecular Chemistry, 2014, 12, 2568-2575.	1.5	26
63	Structure-Function Studies of Polymyxin B Lipononapeptides. Molecules, 2019, 24, 553.	1.7	26
64	Fluoroquinolone-derived fluorescent probes for studies of bacterial penetration and efflux. MedChemComm, 2019, 10, 901-906.	3.5	26
65	Antibiotics Special Issue: Challenges and Opportunities in Antibiotic Discovery and Development. ACS Infectious Diseases, 2020, 6, 1286-1288.	1.8	26
66	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. ACS Infectious Diseases, 2017, 3, 606-619.	1.8	25
67	Short cationic lipopeptides as effective antibacterial agents: Design, physicochemical properties and biological evaluation. Bioorganic and Medicinal Chemistry, 2016, 24, 2235-2241.	1.4	24
68	Chemical philanthropy: a path forward for antibiotic discovery?. Future Medicinal Chemistry, 2016, 8, 925-929.	1.1	23
69	Surface Ligand Density of Antibiotic-Nanoparticle Conjugates Enhances Target Avidity and Membrane Permeabilization of Vancomycin-Resistant Bacteria. Bioconjugate Chemistry, 2017, 28, 353-361.	1.8	23
70	Engineering mesoporous silica nanoparticles towards oral delivery of vancomycin. Journal of Materials Chemistry B, 2021, 9, 7145-7166.	2.9	23
71	Platinum Cyclooctadiene Complexes with Activity against Gramâ€positive Bacteria. ChemMedChem, 2021, 16, 3165-3171.	1.6	23
72	Mesoporous Silica Nanoparticles Improve Oral Delivery of Antitubercular Bicyclic Nitroimidazoles. ACS Biomaterials Science and Engineering, 2022, 8, 4196-4206.	2.6	23

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73	Stereoselective synthesis of allo-threonine and \hat{I}^2 -2H-allo-threonine from threonine. Tetrahedron Letters, 1993, 34, 3837-3840.	0.7	22
74	Design, Synthesis, and Biological Evaluation of 2-Nitroimidazopyrazin-one/es with Antitubercular and Antiparasitic Activity. Journal of Medicinal Chemistry, 2018, 61, 11349-11371.	2.9	22
75	Evaluating the genome and resistome of extensively drug-resistant Klebsiella pneumoniae using native DNA and RNA Nanopore sequencing. GigaScience, 2020, 9, .	3.3	22
76	Formulation technologies and advances for oral delivery of novel nitroimidazoles and antimicrobial peptides. Journal of Controlled Release, 2020, 324, 728-749.	4.8	22
77	Resolving Biofilm Infections: Current Therapy and Drug Discovery Strategies. Current Drug Targets, 2012, 13, 1375-1385.	1.0	21
78	Detection and Investigation of Eagle Effect Resistance to Vancomycin in Clostridium difficile With an ATP-Bioluminescence Assay. Frontiers in Microbiology, 2018, 9, 1420.	1.5	21
79	Institutional profile: Community for Open Antimicrobial Drug Discovery – crowdsourcing new antibiotics and antifungals. Future Science OA, 2017, 3, FSO171.	0.9	19
80	Elucidating the Lipid Binding Properties of Membrane-Active Peptides Using Cyclised Nanodiscs. Frontiers in Chemistry, 2019, 7, 238.	1.8	19
81	Lipoamino Acids as Major Components of Absorption Promoters in Drug Delivery. Current Topics in Medicinal Chemistry, 2012, 12, 1562-1580.	1.0	18
82	How to Stimulate and Facilitate Early Stage Antibiotic Discovery. ACS Infectious Diseases, 2020, 6, 1302-1304.	1.8	18
83	Discovery of Cephalosporin-3′-Diazeniumdiolates That Show Dual Antibacterial and Antibiofilm Effects against <i>Pseudomonas aeruginosa</i> Clinical Cystic Fibrosis Isolates and Efficacy in a Murine Respiratory Infection Model. ACS Infectious Diseases, 2020, 6, 1460-1479.	1.8	18
84	Design and synthesis of phosphotyrosine mimetics. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2083-2085.	1.0	17
85	Antitubercular and Antiparasitic 2-Nitroimidazopyrazinones with Improved Potency and Solubility. Journal of Medicinal Chemistry, 2020, 63, 15726-15751.	2.9	17
86	CryoEM structure of the outer membrane secretin channel pIV from the f1 filamentous bacteriophage. Nature Communications, 2021, 12, 6316.	5.8	17
87	Synthesis of octapeptin C4 and biological profiling against NDM-1 and polymyxin-resistant bacteria. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2407-2409.	1.0	16
88	Can octapeptin antibiotics combat extensively drug-resistant (XDR) bacteria?. Expert Review of Anti-Infective Therapy, 2018, 16, 485-499.	2.0	16
89	Octapeptin C4 and polymyxin resistance occur via distinct pathways in an epidemic XDR <i>Klebsiella pneumoniae</i> ST258 isolate. Journal of Antimicrobial Chemotherapy, 2019, 74, 582-593.	1.3	16
90	Bridging informatics and medicinal inorganic chemistry: Toward a database of metallodrugs and metallodrug candidates. Drug Discovery Today, 2022, 27, 1420-1430.	3.2	16

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91	Loss of YhcB results in dysregulation of coordinated peptidoglycan, LPS and phospholipid synthesis during Escherichia coli cell growth. PLoS Genetics, 2021, 17, e1009586.	1.5	16
92	Old dogs and new tricks in antimicrobial discovery. Current Opinion in Microbiology, 2016, 33, 25-34.	2.3	14
93	Non-antibiotic Small-Molecule Regulation of DHFR-Based Destabilizing Domains InÂVivo. Molecular Therapy - Methods and Clinical Development, 2019, 15, 27-39.	1.8	13
94	Supercritical carbon dioxide assisted complexation of benznidazole: \hat{i}^3 -cyclodextrin for improved dissolution. International Journal of Pharmaceutics, 2021, 596, 120240.	2.6	13
95	Targeted Protein Degradation: The New Frontier of Antimicrobial Discovery?. ACS Infectious Diseases, 2021, 7, 2050-2067.	1.8	11
96	Rescuing Tetracycline Class Antibiotics for the Treatment of Multidrug-Resistant Acinetobacter baumannii Pulmonary Infection. MBio, 2022, 13, e0351721.	1.8	11
97	Understanding the relationship between solubility and permeability of \hat{l}^3 -cyclodextrin-based systems embedded with poorly aqueous soluble benznidazole. International Journal of Pharmaceutics, 2022, 616, 121487.	2.6	11
98	Mechanisms Underlying Synergistic Killing of Polymyxin B in Combination with Cannabidiol against Acinetobacter baumannii: A Metabolomic Study. Pharmaceutics, 2022, 14, 786.	2.0	11
99	Self-assembling lipopeptides with a potent activity against Gram-positive bacteria, including multidrug resistant strains. Nanomedicine, 2015, 10, 3359-3371.	1.7	9
100	Flow-cytometry detection of fluorescent magnetic nanoparticle clusters increases sensitivity of dengue immunoassay. Analytica Chimica Acta, 2020, 1107, 85-91.	2.6	9
101	Chemical synthesis of human trefoil factor 1 (TFF1) and its homodimer provides novel insights into their mechanisms of action. Chemical Communications, 2020, 56, 6420-6423.	2.2	8
102	Chemical Synthesis of TFF3 Reveals Novel Mechanistic Insights and a Gut-Stable Metabolite. Journal of Medicinal Chemistry, 2021, 64, 9484-9495.	2.9	8
103	Antimicrobial screening of a historical collection of over 140 000 small molecules. Mendeleev Communications, 2021, 31, 484-487.	0.6	8
104	Regiocontrol in alkylations of α-Silyl hydrazones. Tetrahedron Letters, 1998, 39, 3617-3620.	0.7	7
105	Antimicrobial and Anticancer Properties of Synthetic Peptides Derived from the Wasp <i>Parachartergus fraternus </i> . ChemBioChem, 2021, 22, 1415-1423.	1.3	7
106	Antibiotic-derived molecular probes for bacterial imaging. , 2019, , .		7
107	Loss of \hat{I}^2 -Ketoacyl Acyl Carrier Protein Synthase III Activity Restores Multidrug-Resistant Escherichia coli Sensitivity to Previously Ineffective Antibiotics. MSphere, 2022, 7, e0011722.	1.3	7
108	Mild Conditions for Oxazolidin-5-one Formation. Synthesis, 1998, 1998, 379-380.	1.2	5

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109	Bio-Potency and Molecular Docking Studies of Isolated Compounds from Grewia optiva J.R. Drumm. ex Burret. Molecules, 2021, 26, 2019.	1.7	5
110	A template guided approach to generating cell permeable inhibitors of Staphylococcus aureus biotin protein ligase. Tetrahedron, 2018, 74, 1175-1183.	1.0	4
111	Design, synthesis and screening of a drug discovery library based on an Eremophila-derived serrulatane scaffold. Phytochemistry, 2021, 190, 112887.	1.4	4
112	The diminished antimicrobial pipeline. Microbiology Australia, 2019, 40, 92.	0.1	4
113	Investigations into the membrane activity of arenicin antimicrobial peptide AA139. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130156.	1.1	4
114	Multi-Institution Research and Education Collaboration Identifies New Antimicrobial Compounds. ACS Chemical Biology, 2020, 15, 3187-3196.	1.6	3
115	Visualization of Bacterial Resistance using Fluorescent Antibiotic Probes. Journal of Visualized Experiments, 2020, , .	0.2	3
116	The Antimicrobial Resistance Crisis: An Inadvertent, Unfortunate but Nevertheless Informative Experiment in Evolutionary Biology. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	3
117	Serum Complement Activation by C4BP-IgM Fusion Protein Can Restore Susceptibility to Antibiotics in Neisseria gonorrhoeae. Frontiers in Immunology, 2021, 12, 726801.	2.2	3
118	Biostimulation of Bacteria in Liquid Culture for Identification of New Antimicrobial Compounds. Pharmaceuticals, 2021, 14, 1232.	1.7	3
119	Application of antibiotic-derived fluorescent probes to bacterial studies. Methods in Enzymology, 2022, 665, 1-28.	0.4	3
120	Amino Alcohols as Potential Antibiotic and Antifungal Leads. Molecules, 2022, 27, 2050.	1.7	3
121	Clostridium difficile Infection: Current and Emerging Therapeutics. Current Treatment Options in Infectious Diseases, 2015, 7, 317-334.	0.8	2
122	<i>In Vitro</i> Activity of Vancapticin MCC5145 against Methicillin-Resistant Staphylococcus aureus from Periprosthetic Joint Infection. Antimicrobial Agents and Chemotherapy, 2021, 65, .	1.4	2
123	A Convenient Reduction of $\hat{l}\pm$ -Amino Acids to 1,2-Amino Alcohols With Retention of Optical Purity. Open Organic Chemistry Journal, 2008, 2, 107-109.	0.9	2
124	A Convenient Reduction of α-Amino Acids to 1,2-Amino Alcohols With Retention of Optical Purity~!2008-08-29~!2008-10-16~!2008-11-28~!. Open Organic Chemistry Journal, 2008, 2, 107-109.	0.9	2
125	Call for Papers: Antibiotic Alternatives Special Issue. ACS Infectious Diseases, 2020, 6, 2812-2812.	1.8	1
126	Complete Genome Sequences of Clinical Pandoraea fibrosis Isolates. Microbiology Resource Announcements, 2020, 9, .	0.3	1

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127	Virtual Issue: Anti-infective Discovery Down Under. ACS Infectious Diseases, 2021, 7, 1555-1557.	1.8	1
128	Antibiotic Alternatives Special Issue. ACS Infectious Diseases, 2021, 7, 2025-2026.	1.8	1
129	Solid-Phase Synthesis of Octapeptin Lipopeptides. Methods in Molecular Biology, 2020, 2103, 199-213.	0.4	1
130	Featured Article Editorial: Discovery of a Tricyclic \hat{l}^2 -Lactam Active against Carbapenem-Resistant Enterobacterales. ACS Infectious Diseases, 2022, 8, 398-398.	1.8	1
131	Polymer-Supported Acetylide Addition to Hexa-2,4-dienal. Synthesis, 1998, 1998, 965-966.	1.2	O
132	Call for Papers: Antibiotics Special Issue. ACS Infectious Diseases, 2019, 5, 1264-1264.	1.8	0
133	Highly efficient and versatile construction of secondary structure peptide mimetic libraries: Application to biology and drug development., 2002,, 191-193.		O
134	1255. <i>In Vitro</i> Activity of Vancapticin against Methicillin-Resistant <i>Staphylococcus aureus</i> from Periprosthetic Joint Infection. Open Forum Infectious Diseases, 2020, 7, S645-S645.	0.4	0