

Robert W Huigens

List of Publications by Year in descending order

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59
papers

2,291
citations

201674

27
h-index

214800

47
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63
all docs

63
docs citations

63
times ranked

2425
citing authors

#	ARTICLE	IF	CITATIONS
1	A ring-distortion strategy to construct stereochemically complex and structurally diverse compounds from natural products. <i>Nature Chemistry</i> , 2013, 5, 195-202.	13.6	270
2	Synergistic Effects between Conventional Antibiotics and 2-Aminoimidazole-Derived Antibiofilm Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2112-2118.	3.2	190
3	Inhibition of <i>Pseudomonas aeruginosa</i> Biofilm Formation with Bromoageliferin Analogues. <i>Journal of the American Chemical Society</i> , 2007, 129, 6966-6967.	13.7	129
4	Synthesis and Screening of an Oroidin Library against <i>Pseudomonas aeruginosa</i> Biofilms. <i>ChemBioChem</i> , 2008, 9, 1267-1279.	2.6	109
5	A 2-Aminobenzimidazole That Inhibits and Disperses Gram-Positive Biofilms through a Zinc-Dependent Mechanism. <i>Journal of the American Chemical Society</i> , 2009, 131, 9868-9869.	13.7	79
6	Halogenated Phenazines that Potently Eradicate Biofilms, MRSA Persister Cells in Non-Biofilm Cultures, and <i>Mycobacterium tuberculosis</i> . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14819-14823.	13.8	77
7	Phenazine antibiotic inspired discovery of potent bromophenazine antibacterial agents against <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> . <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 881-886.	2.8	74
8	Recent Progress in Natural-Product-Inspired Programs Aimed To Address Antibiotic Resistance and Tolerance. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 7618-7642.	6.4	73
9	Harnessing the Chemistry of the Indole Heterocycle to Drive Discoveries in Biology and Medicine. <i>ChemBioChem</i> , 2019, 20, 2273-2297.	2.6	73
10	Structure-Activity Relationships of a Diverse Class of Halogenated Phenazines That Targets Persistent, Antibiotic-Tolerant Bacterial Biofilms and <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2016, 59, 3808-3825.	6.4	70
11	Control of bacterial biofilms with marine alkaloid derivatives. <i>Molecular BioSystems</i> , 2008, 4, 614.	2.9	64
12	Discovery of quinoline small molecules with potent dispersal activity against methicillin-resistant <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> biofilms using a scaffold hopping strategy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5076-5080.	2.2	64
13	A Tryptoline Ring-Distortion Strategy Leads to Complex and Diverse Biologically Active Molecules from the Indole Alkaloid Yohimbine. <i>Chemistry - A European Journal</i> , 2017, 23, 4327-4335.	3.3	61
14	The chemical synthesis and antibiotic activity of a diverse library of 2-aminobenzimidazole small molecules against MRSA and multidrug-resistant <i>A. baumannii</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 663-674.	3.0	53
15	Nitroxoline: a broad-spectrum biofilm-eradicating agent against pathogenic bacteria. <i>International Journal of Antimicrobial Agents</i> , 2017, 49, 247-251.	2.5	51
16	Evaluation of dihydrooroidin as an antifouling additive in marine paint. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 529-532.	3.9	50
17	Inhibition of <i>Acinetobacter baumannii</i> , <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> biofilm formation with a class of TAGE-triazole conjugates. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 794.	2.8	50
18	Transcript Profiling of MRSA Biofilms Treated with a Halogenated Phenazine Eradicating Agent: A Platform for Defining Cellular Targets and Pathways Critical to Biofilm Survival. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15523-15528.	13.8	50

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19	An Efficient Buchwald-Hartwig/Reductive Cyclization for the Scaffold Diversification of Halogenated Phenazines: Potent Antibacterial Targeting, Biofilm Eradication, and Prodrug Exploration. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3962-3983.	6.4	47
20	Dual Targeting of the Warburg Effect with a Glucose-Conjugated Lactate Dehydrogenase Inhibitor. <i>ChemBioChem</i> , 2013, 14, 2263-2267.	2.6	43
21	Synthesis and biological activity of 2-aminoimidazole triazoles accessed by Suzuki-Miyaura cross-coupling. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3041.	2.8	39
22	Bromophenazine derivatives with potent inhibition, dispersion and eradication activities against <i>Staphylococcus aureus</i> biofilms. <i>RSC Advances</i> , 2015, 5, 1120-1124.	3.6	39
23	A Highly Potent Class of Halogenated Phenazine Antibacterial and Biofilm-Eradicating Agents Accessed Through a Modular Wohl-Aue Synthesis. <i>Scientific Reports</i> , 2017, 7, 2003.	3.3	37
24	Modulating the development of <i>E. coli</i> biofilms with 2-aminoimidazoles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6310-6312.	2.2	31
25	Antimicrobial peptide-inspired NH125 analogues: bacterial and fungal biofilm-eradicating agents and rapid killers of MRSA persisters. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5503-5512.	2.8	30
26	Preventing Morphine-Seeking Behavior through the Re-Engineering of Vincamine's Biological Activity. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 5119-5138.	6.4	30
27	Synthetically Tuning the 2-Position of Halogenated Quinolines: Optimizing Antibacterial and Biofilm Eradication Activities via Alkylation and Reductive Amination Pathways. <i>Chemistry - A European Journal</i> , 2016, 22, 9181-9189.	3.3	29
28	Halogenated quinolines discovered through reductive amination with potent eradication activities against MRSA, MRSE and VRE biofilms. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10290-10294.	2.8	28
29	Phenazine Antibiotic-Inspired Discovery of Bacterial Biofilm-Eradicating Agents. <i>ChemBioChem</i> , 2019, 20, 2885-2902.	2.6	24
30	Pyrazine and Phenazine Heterocycles: Platforms for Total Synthesis and Drug Discovery. <i>Molecules</i> , 2022, 27, 1112.	3.8	24
31	Microwave-enhanced Friedländer synthesis for the rapid assembly of halogenated quinolines with antibacterial and biofilm eradication activities against drug resistant and tolerant bacteria. <i>MedChemComm</i> , 2017, 8, 720-724.	3.4	21
32	A Modular Synthetic Route Involving <i>N</i> -Aryl-2-nitrosoaniline Intermediates Leads to a New Series of 3-Substituted Halogenated Phenazine Antibacterial Agents. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7275-7295.	6.4	21
33	A Phytochemical-Halogenated Quinoline Combination Therapy Strategy for the Treatment of Pathogenic Bacteria. <i>ChemMedChem</i> , 2015, 10, 1157-1162.	3.2	20
34	Combination Treatment of Erythromycin and Furamidine Provides Additive and Synergistic Rescue of Mis-splicing in Myotonic Dystrophy Type 1 Models. <i>ACS Pharmacology and Translational Science</i> , 2019, 2, 247-263.	4.9	20
35	Re-Engineering of Yohimbine's Biological Activity through Ring Distortion: Identification and Structure-Activity Relationships of a New Class of Antiplasmodial Agents. <i>ACS Infectious Diseases</i> , 2020, 6, 159-167.	3.8	20
36	Identification of <i>N</i> -Arylated NH125 Analogues as Rapid Eradicating Agents against MRSA Persister Cells and Potent Biofilm Killers of Gram-Positive Pathogens. <i>ChemBioChem</i> , 2017, 18, 352-357.	2.6	19

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37	In vitro antifungal and antibiofilm activities of halogenated quinoline analogues against <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> . <i>International Journal of Antimicrobial Agents</i> , 2016, 48, 208-211.	2.5	17
38	Eradicating Bacterial Biofilms with Natural Products and their Inspired Analogues that Operate Through Unique Mechanisms. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 1954-1964.	2.1	17
39	Design, synthesis and biological evaluation of a halogenated phenazine-erythromycin conjugate prodrug for antibacterial applications. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1483-1487.	2.8	15
40	Halogenated quinolines bearing polar functionality at the 2-position: Identification of new antibacterial agents with enhanced activity against <i>Staphylococcus epidermidis</i> . <i>European Journal of Medicinal Chemistry</i> , 2018, 155, 705-713.	5.5	14
41	Yohimbine as a Starting Point to Access Diverse Natural Product-Like Agents with Re-programmed Activities against Cancer-Relevant GPCR Targets. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115546.	3.0	13
42	Modular Synthetic Routes to Fluorine-Containing Halogenated Phenazine and Acridine Agents That Induce Rapid Iron Starvation in Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilms. <i>ACS Infectious Diseases</i> , 2022, 8, 280-295.	3.8	13
43	Progress towards a stable cephalosporin-halogenated phenazine conjugate for antibacterial prodrug applications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127515.	2.2	10
44	Instructive Advances in Chemical Microbiology Inspired by Nature's Diverse Inventory of Molecules. <i>ACS Infectious Diseases</i> , 2020, 6, 541-562.	3.8	9
45	Eradicating Bacterial Biofilms with Natural Products and Their Inspired Analogues that Operate Through Unique Mechanisms. <i>Current Topics in Medicinal Chemistry</i> , 2016, , .	2.1	7
46	The Path to New Halogenated Quinolines With Enhanced Activities Against <i>Staphylococcus epidermidis</i> . <i>Microbiology Insights</i> , 2018, 11, 117863611880853.	2.0	6
47	Turning the Tide against Antibiotic Resistance by Evaluating Novel, Halogenated Phenazine, Quinoline, and NH125 Compounds against <i>Ureaplasma</i> Species Clinical Isolates and <i>Mycoplasma</i> Type Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	6
48	An ether-linked halogenated phenazine-quinone prodrug model for antibacterial applications. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6603-6608.	2.8	6
49	Molecular characterization of myotonic dystrophy fibroblast cell lines for use in small molecule screening. <i>IScience</i> , 2022, 25, 104198.	4.1	6
50	Evolution of Resistance to Phenazine Antibiotics in <i>Staphylococcus aureus</i> and Its Role During Coinfection with <i>Pseudomonas aeruginosa</i> . <i>ACS Infectious Diseases</i> , 2021, 7, 636-649.	3.8	5
51	Transcript Profiling of MRSA Biofilms Treated with a Halogenated Phenazine Eradicating Agent: A Platform for Defining Cellular Targets and Pathways Critical to Biofilm Survival. <i>Angewandte Chemie</i> , 2018, 130, 15749-15754.	2.0	4
52	Rapid kill assessment of an <i>N</i> -arylated NH125 analogue against drug-resistant microorganisms. <i>MedChemComm</i> , 2019, 10, 712-716.	3.4	4
53	Ring Distortion of Vincamine Leads to the Identification of Re-Engineered Antiplasmodial Agents. <i>ACS Omega</i> , 2021, 6, 20455-20470.	3.5	4
54	Pyrazines and Their Benzo Derivatives. , 2022, , 229-282.		3

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55	Targeting bacterial biofilms with persister-killing agents. <i>Future Medicinal Chemistry</i> , 2021, 13, 225-228.	2.3	3
56	Transcript Profiling of Nitroxoline-Treated Biofilms Shows Rapid Up-regulation of Iron Acquisition Gene Clusters. <i>ACS Infectious Diseases</i> , 2022, 8, 1594-1605.	3.8	3
57	Microwave-enhanced, stereospecific ring-closure of medium-ring cyanamide ethers to yohimbine. <i>Tetrahedron Letters</i> , 2019, 60, 1182-1185.	1.4	2
58	Efficacy data of halogenated phenazine and quinoline agents and an NH125 analogue to veterinary mycoplasmas. <i>BMC Veterinary Research</i> , 2020, 16, 107.	1.9	2
59	Identification of Nitroxoline and Halogenated Quinoline Analogues with Antibacterial Activities against Plant Pathogens. <i>ChemistrySelect</i> , 2017, 2, 6235-6239.	1.5	0