Robert W Huigens

List of Publications by Year in Descending Order

56 papers	1,705 citations	24 h-index	40 g-index
63 ext. papers	2,035 ext. citations	5.8 avg, IF	4.9 L-index

#	Paper	IF	Citations
56	Molecular characterization of myotonic dystrophy fibroblast cell lines for use in small molecule screening.. *IScience*, **2022**, 25, 104198	6.1	1
55	Evolution of Resistance to Phenazine Antibiotics in and Its Role During Coinfection with. *ACS Infectious Diseases*, **2021**, 7, 636-649	5.5	1
54	A Modular Synthetic Route Involving -Aryl-2-nitrosoaniline Intermediates Leads to a New Series of 3-Substituted Halogenated Phenazine Antibacterial Agents. *Journal of Medicinal Chemistry*, **2021**, 64, 7275-7295	8.3	6
53	Ring Distortion of Vincamine Leads to the Identification of Re-Engineered Antiplasmodial Agents. *ACS Omega*, **2021**, 6, 20455-20470	3.9	0
52	Pyrazines and Their Benzo Derivatives **2021**, 229-229		1
51	Design, synthesis and biological evaluation of a halogenated phenazine-erythromycin conjugate prodrug for antibacterial applications. *Organic and Biomolecular Chemistry*, **2021**, 19, 1483-1487	3.9	9
50	An ether-linked halogenated phenazine-quinone prodrug model for antibacterial applications. *Organic and Biomolecular Chemistry*, **2021**, 19, 6603-6608	3.9	2
49	Yohimbine as a Starting Point to Access Diverse Natural Product-Like Agents with Re-programmed Activities against Cancer-Relevant GPCR Targets. *Bioorganic and Medicinal Chemistry*, **2020**, 28, 115546	3.4	10
48	Re-Engineering of Yohimbine's Biological Activity through Ring Distortion: Identification and Structure-Activity Relationships of a New Class of Antiplasmodial Agents. *ACS Infectious Diseases*, **2020**, 6, 159-167	5.5	13
47	Preventing Morphine-Seeking Behavior through the Re-Engineering of Vincamine's Biological Activity. *Journal of Medicinal Chemistry*, **2020**, 63, 5119-5138	8.3	14
46	Instructive Advances in Chemical Microbiology Inspired by Nature's Diverse Inventory of Molecules. *ACS Infectious Diseases*, **2020**, 6, 541-562	5.5	4
45	Progress towards a stable cephalosporin-halogenated phenazine conjugate for antibacterial prodrug applications. *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 127515	2.9	6
44	Efficacy data of halogenated phenazine and quinoline agents and an NH125 analogue to veterinary mycoplasmas. *BMC Veterinary Research*, **2020**, 16, 107	2.7	1
43	Rapid kill assessment of an -arylated NH125 analogue against drug-resistant microorganisms. *MedChemComm*, **2019**, 10, 712-716	5	3
42	Microwave-enhanced, stereospecific ring-closure of medium-ring cyanamide ethers to yohimbine. *Tetrahedron Letters*, **2019**, 60, 1182-1185	2	2
41	Recent Progress in Natural-Product-Inspired Programs Aimed To Address Antibiotic Resistance and Tolerance. *Journal of Medicinal Chemistry*, **2019**, 62, 7618-7642	8.3	35
40	Phenazine Antibiotic-Inspired Discovery of Bacterial Biofilm-Eradicating Agents. *ChemBioChem*, **2019**, 20, 2885-2902	3.8	15

39	Combination Treatment of Erythromycin and Furamidine Provides Additive and Synergistic Rescue of Mis-Splicing in Myotonic Dystrophy Type 1 Models. *ACS Pharmacology and Translational Science*, **2019**, 2, 247-263	5.9	12
38	Harnessing the Chemistry of the Indole Heterocycle to Drive Discoveries in Biology and Medicine. *ChemBioChem*, **2019**, 20, 2273-2297	3.8	34
37	Turning the Tide against Antibiotic Resistance by Evaluating Novel, Halogenated Phenazine, Quinoline, and NH125 Compounds against Species Clinical Isolates and Type Strains. *Antimicrobial Agents and Chemotherapy*, **2019**, 63,	5.9	4
36	An Efficient Buchwald-Hartwig/Reductive Cyclization for the Scaffold Diversification of Halogenated Phenazines: Potent Antibacterial Targeting, Biofilm Eradication, and Prodrug Exploration. *Journal of Medicinal Chemistry*, **2018**, 61, 3962-3983	8.3	32
35	Halogenated quinolines bearing polar functionality at the 2-position: Identification of new antibacterial agents with enhanced activity against Staphylococcus epidermidis. *European Journal of Medicinal Chemistry*, **2018**, 155, 705-713	6.8	12
34	The Path to New Halogenated Quinolines With Enhanced Activities Against. *Microbiology Insights*, **2018**, 11, 1178636118808532	2.5	4
33	Transcript Profiling of MRSA Biofilms Treated with a Halogenated Phenazine Eradicating Agent: A Platform for Defining Cellular Targets and Pathways Critical to Biofilm Survival. *Angewandte Chemie*, **2018**, 130, 15749-15754	3.6	3
32	Transcript Profiling of MRSA Biofilms Treated with a Halogenated Phenazine Eradicating Agent: A Platform for Defining Cellular Targets and Pathways Critical to Biofilm Survival. *Angewandte Chemie - International Edition*, **2018**, 57, 15523-15528	16.4	22
31	A Tryptoline Ring-Distortion Strategy Leads to Complex and Diverse Biologically Active Molecules from the Indole Alkaloid Yohimbine. *Chemistry - A European Journal*, **2017**, 23, 4327-4335	4.8	47
30	Antimicrobial peptide-inspired NH125 analogues: bacterial and fungal biofilm-eradicating agents and rapid killers of MRSA persisters. *Organic and Biomolecular Chemistry*, **2017**, 15, 5503-5512	3.9	19
29	A Highly Potent Class of Halogenated Phenazine Antibacterial and Biofilm-Eradicating Agents Accessed Through a Modular Wohl-Aue Synthesis. *Scientific Reports*, **2017**, 7, 2003	4.9	27
28	Nitroxoline: a broad-spectrum biofilm-eradicating agent against pathogenic bacteria. *International Journal of Antimicrobial Agents*, **2017**, 49, 247-251	14.3	31
27	Identification of N-Arylated NH125 Analogues as Rapid Eradicating Agents against MRSA Persister Cells and Potent Biofilm Killers of Gram-Positive Pathogens. *ChemBioChem*, **2017**, 18, 352-357	3.8	16
26	Identification of Nitroxoline and Halogenated Quinoline Analogues with Antibacterial Activities against Plant Pathogens. *ChemistrySelect*, **2017**, 2, 6235-6239	1.8	
25	Microwave-enhanced Friedländer synthesis for the rapid assembly of halogenated quinolines with antibacterial and biofilm eradication activities against drug resistant and tolerant bacteria. *MedChemComm*, **2017**, 8, 720-724	5	18
24	Eradicating Bacterial Biofilms with Natural Products and their Inspired Analogues that Operate Through Unique Mechanisms. *Current Topics in Medicinal Chemistry*, **2017**, 17, 1954-1964	3	15
23	Synthetically Tuning the 2-Position of Halogenated Quinolines: Optimizing Antibacterial and Biofilm Eradication Activities via Alkylation and Reductive Amination Pathways. *Chemistry - A European Journal*, **2016**, 22, 9181-9	4.8	24
22	Structure-Activity Relationships of a Diverse Class of Halogenated Phenazines That Targets Persistent, Antibiotic-Tolerant Bacterial Biofilms and Mycobacterium tuberculosis. *Journal of Medicinal Chemistry*, **2016**, 59, 3808-25	8.3	53

21	In vitro antifungal and antibiofilm activities of halogenated quinoline analogues against Candida albicans and Cryptococcus neoformans. *International Journal of Antimicrobial Agents*, **2016**, 48, 208-11	14.3	11
20	Eradicating Bacterial Biofilms with Natural Products and Their Inspired Analogues that Operate Through Unique Mechanisms. *Current Topics in Medicinal Chemistry*, **2016**,	3	6
19	Halogenated quinolines discovered through reductive amination with potent eradication activities against MRSA, MRSE and VRE biofilms. *Organic and Biomolecular Chemistry*, **2015**, 13, 10290-4	3.9	26
18	Bromophenazine derivatives with potent inhibition, dispersion and eradication activities against Staphylococcus aureus biofilms. *RSC Advances*, **2015**, 5, 1120-1124	3.7	33
17	Halogenated Phenazines that Potently Eradicate Biofilms, MRSA Persister Cells in Non-Biofilm Cultures, and Mycobacterium tuberculosis. *Angewandte Chemie - International Edition*, **2015**, 54, 14819-23	16.4	59
16	A Phytochemical-Halogenated Quinoline Combination Therapy Strategy for the Treatment of Pathogenic Bacteria. *ChemMedChem*, **2015**, 10, 1157-62	3.7	18
15	Halogenated Phenazines that Potently Eradicate Biofilms, MRSA Persister Cells in Non-Biofilm Cultures, and Mycobacterium tuberculosis. *Angewandte Chemie*, **2015**, 127, 15032-15036	3.6	9
14	Phenazine antibiotic inspired discovery of potent bromophenazine antibacterial agents against Staphylococcus aureus and Staphylococcus epidermidis. *Organic and Biomolecular Chemistry*, **2014**, 12, 881-6	3.9	55
13	Discovery of quinoline small molecules with potent dispersal activity against methicillin-resistant Staphylococcus aureus and Staphylococcus epidermidis biofilms using a scaffold hopping strategy. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 5076-80	2.9	56
12	A ring-distortion strategy to construct stereochemically complex and structurally diverse compounds from natural products. *Nature Chemistry*, **2013**, 5, 195-202	17.6	220
11	Dual targeting of the Warburg effect with a glucose-conjugated lactate dehydrogenase inhibitor. *ChemBioChem*, **2013**, 14, 2263-7	3.8	39
10	Synthesis and biological activity of 2-aminoimidazole triazoles accessed by Suzuki-Miyaura cross-coupling. *Organic and Biomolecular Chemistry*, **2011**, 9, 3041-9	3.9	31
9	Synergistic effects between conventional antibiotics and 2-aminoimidazole-derived antibiofilm agents. *Antimicrobial Agents and Chemotherapy*, **2010**, 54, 2112-8	5.9	154
8	The chemical synthesis and antibiotic activity of a diverse library of 2-aminobenzimidazole small molecules against MRSA and multidrug-resistant A. baumannii. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 663-74	3.4	47
7	Modulating the development of E. coli biofilms with 2-aminoimidazoles. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6310-2	2.9	27
6	Evaluation of dihydrooroidin as an antifouling additive in marine paint. *International Biodeterioration and Biodegradation*, **2009**, 63, 529-532	4.8	47
5	A 2-aminobenzimidazole that inhibits and disperses gram-positive biofilms through a zinc-dependent mechanism. *Journal of the American Chemical Society*, **2009**, 131, 9868-9	16.4	65
4	Inhibition of Acinetobacter baumannii, Staphylococcus aureus and Pseudomonas aeruginosa biofilm formation with a class of TAGE-triazole conjugates. *Organic and Biomolecular Chemistry*, **2009**, 7, 794-802	3.9	42

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3	Control of bacterial biofilms with marine alkaloid derivatives. *Molecular BioSystems*, **2008**, 4, 614-21		52
2	Synthesis and screening of an oroidin library against Pseudomonas aeruginosa biofilms. *ChemBioChem*, **2008**, 9, 1267-79	3.8	97
1	Inhibition of Pseudomonas aeruginosa biofilm formation with Bromoageliferin analogues. *Journal of the American Chemical Society*, **2007**, 129, 6966-7	16.4	110