

Martin Empting

List of Publications by Year in descending order

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66
papers

2,611
citations

201674

27
h-index

197818

49
g-index

73
all docs

73
docs citations

73
times ranked

2987
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards the sustainable discovery and development of new antibiotics. <i>Nature Reviews Chemistry</i> , 2021, 5, 726-749.	30.2	439
2	Novel Strategies for the Treatment of <i>Pseudomonas aeruginosa</i> Infections. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5929-5969.	6.4	215
3	Camelid and shark single domain antibodies: structural features and therapeutic potential. <i>Current Opinion in Structural Biology</i> , 2017, 45, 10-16.	5.7	165
4	Concepts and Core Principles of Fragment-Based Drug Design. <i>Molecules</i> , 2019, 24, 4309.	3.8	115
5	Triazole Bridge Disulfide Bond Replacement by Ruthenium Catalyzed Formation of 1,5-Disubstituted 1,2,3-Triazoles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5207-5211.	13.8	112
6	Structural insights and biomedical potential of IgNAR scaffolds from sharks. <i>MAbs</i> , 2015, 7, 15-25.	5.2	102
7	Shark Attack: High affinity binding proteins derived from shark vNAR domains by stepwise in vitro affinity maturation. <i>Journal of Biotechnology</i> , 2014, 191, 236-245.	3.8	74
8	Single-domain antibodies for biomedical applications. <i>Immunopharmacology and Immunotoxicology</i> , 2016, 38, 21-28.	2.4	64
9	Braces for the Peptide Backbone: Insights into Structure-Activity Relationships of Protease Inhibitor Mimics with Locked Amide Conformations. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3708-3712.	13.8	62
10	Application of Dual Inhibition Concept within Looped Autoregulatory Systems toward Antivirulence Agents against <i>Pseudomonas aeruginosa</i> Infections. <i>ACS Chemical Biology</i> , 2016, 11, 1279-1286.	3.4	61
11	Targeting the <i>Pseudomonas</i> quinolone signal quorum sensing system for the discovery of novel anti-infective pathoblockers. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2627-2645.	2.2	61
12	Towards click bioconjugations on cube-octameric silsesquioxane scaffolds. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2212.	2.8	49
13	In-depth Profiling of MvfR-Regulated Small Molecules in <i>Pseudomonas aeruginosa</i> after Quorum Sensing Inhibitor Treatment. <i>Frontiers in Microbiology</i> , 2017, 8, 924.	3.5	49
14	Combinatorial tuning of peptidic drug candidates: high-affinity matriptase inhibitors through incremental structure-guided optimization. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1848.	2.8	48
15	Design and Synthesis of a Library of Lead-Like 2,4-Bisheterocyclic Substituted Thiophenes as Selective Dyrk/Clk Inhibitors. <i>PLoS ONE</i> , 2014, 9, e87851.	2.5	43
16	Potent inhibitors of human matriptase-1 based on the scaffold of sunflower trypsin inhibitor. <i>Journal of Peptide Science</i> , 2014, 20, 415-420.	1.4	42
17	Tracheal brush cells release acetylcholine in response to bitter tastants for paracrine and autocrine signaling. <i>FASEB Journal</i> , 2020, 34, 316-332.	0.5	41
18	Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P. aeruginosa</i> Biofilm Infections. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10292-10296.	13.8	41

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19	Exploring the chemical space of ureidothiophene-2-carboxylic acids as inhibitors of the quorum sensing enzyme PqsD from <i>Pseudomonas aeruginosa</i> . <i>European Journal of Medicinal Chemistry</i> , 2015, 96, 14-21.	5.5	39
20	From <i>in vitro</i> to <i>in cellulo</i> : structure–activity relationship of (2-nitrophenyl)methanol derivatives as inhibitors of PqsD in <i>Pseudomonas aeruginosa</i> . <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6094-6104.	2.8	38
21	Dissecting the Multiple Roles of PqsE in <i>Pseudomonas aeruginosa</i> Virulence by Discovery of Small Tool Compounds. <i>ACS Chemical Biology</i> , 2016, 11, 1755-1763.	3.4	38
22	Catechol-based substrates of chalcone synthase as a scaffold for novel inhibitors of PqsD. <i>European Journal of Medicinal Chemistry</i> , 2015, 90, 351-359.	5.5	34
23	Semi-synthetic vNAR libraries screened against therapeutic antibodies primarily deliver anti-idiotypic binders. <i>Scientific Reports</i> , 2017, 7, 9676.	3.3	34
24	A New PqsR Inverse Agonist Potentiates Tobramycin Efficacy to Eradicate <i>Pseudomonas aeruginosa</i> Biofilms. <i>Advanced Science</i> , 2021, 8, e2004369.	11.2	34
25	Discovery of the first small-molecule CsrA–RNA interaction inhibitors using biophysical screening technologies. <i>Future Medicinal Chemistry</i> , 2016, 8, 931-947.	2.3	33
26	PHIP-label: parahydrogen-induced polarization in propargylglycine-containing synthetic oligopeptides. <i>Chemical Communications</i> , 2013, 49, 7839.	4.1	29
27	Fragment-Based Discovery of a Qualified Hit Targeting the Latency-Associated Nuclear Antigen of the Oncogenic Kaposi's Sarcoma-Associated Herpesvirus/Human Herpesvirus 8. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 3924-3939.	6.4	28
28	Engineering a Constrained Peptidic Scaffold towards Potent and Selective Furin Inhibitors. <i>ChemBioChem</i> , 2015, 16, 2441-2444.	2.6	26
29	Between two worlds: a comparative study on <i>in vitro</i> and <i>in silico</i> inhibition of trypsin and matriptase by redox-stable SFTI-1 variants at near physiological pH. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7753.	2.8	25
30	An Apoptosis-Inducing Peptidic Heptad That Efficiently Clusters Death Receptor-5. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5085-5089.	13.8	25
31	Biochemical and Biophysical Analysis of a Chiral PqsD Inhibitor Revealing Tight-binding Behavior and Enantiomers with Contrary Thermodynamic Signatures. <i>ACS Chemical Biology</i> , 2013, 8, 2794-2801.	3.4	24
32	Structure–Activity Relationships of 2-Sulfonylpyrimidines as Quorum-Sensing Inhibitors to Tackle Biofilm Formation and eDNA Release of <i>Pseudomonas aeruginosa</i> . <i>ChemMedChem</i> , 2016, 11, 2522-2533.	3.2	24
33	Tackling <i>Pseudomonas aeruginosa</i> Virulence by a Hydroxamic Acid-Based LasB Inhibitor. <i>ACS Chemical Biology</i> , 2018, 13, 2449-2455.	3.4	24
34	From pico to nano: biofunctionalization of cube-octameric silsesquioxanes by peptides and miniproteins. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6287.	2.8	23
35	Flexible Fragment Growing Boosts Potency of Quorum-Sensing Inhibitors against <i>Pseudomonas aeruginosa</i> Virulence. <i>ChemMedChem</i> , 2020, 15, 188-194.	3.2	23
36	First Small-Molecule Inhibitors Targeting the RNA-Binding Protein IGF2BP2/IMP2 for Cancer Therapy. <i>ACS Chemical Biology</i> , 2022, 17, 361-375.	3.4	23

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37	Synthesis of New Cyclomarin Derivatives and Their Biological Evaluation towards <i>Mycobacterium Tuberculosis</i> and <i>Plasmodium Falciparum</i> . Chemistry - A European Journal, 2019, 25, 8894-8902.	3.3	21
38	<i>In Vitro</i> Model of the Gram-Negative Bacterial Cell Envelope for Investigation of Anti-Infective Permeation Kinetics. ACS Infectious Diseases, 2018, 4, 1188-1196.	3.8	20
39	Application of copper(i) catalyzed azide-alkyne [3+2] cycloaddition to the synthesis of template-assembled multivalent peptide conjugates. Organic and Biomolecular Chemistry, 2009, 7, 4177.	2.8	19
40	The Shark Strikes Twice: Hypervariable Loop 2 of Shark IgNAR Antibody Variable Domains and Its Potential to Function as an Autonomous Paratope. Marine Biotechnology, 2015, 17, 386-392.	2.4	17
41	The Alkylquinolone Repertoire of <i>Pseudomonas aeruginosa</i> is Linked to Structural Flexibility of the FabH-like 2-Heptyl-3-hydroxy-4(1H)-quinolone (PQS) Biosynthesis Enzyme PqsBC. ChemBioChem, 2018, 19, 1531-1544.		17
42	Micro-rheological properties of lung homogenates correlate with infection severity in a mouse model of <i>Pseudomonas aeruginosa</i> lung infection. Scientific Reports, 2020, 10, 16502.	3.3	17
43	Composing compound libraries for hit discovery – rationality-driven preselection or random choice by structural diversity?. Future Medicinal Chemistry, 2014, 6, 2057-2072.	2.3	15
44	Generation of Semi-Synthetic Shark IgNAR Single-Domain Antibody Libraries. Methods in Molecular Biology, 2018, 1701, 147-167.	0.9	15
45	Aspherical and Spherical InvA497-Functionalized Nanocarriers for Intracellular Delivery of Anti-Infective Agents. Pharmaceutical Research, 2019, 36, 22.	3.5	15
46	Discovery of Novel Latency-Associated Nuclear Antigen Inhibitors as Antiviral Agents Against Kaposi's Sarcoma-Associated Herpesvirus. ACS Chemical Biology, 2020, 15, 388-395.	3.4	11
47	Towards the evaluation in an animal disease model: Fluorinated 17 β -HSD1 inhibitors showing strong activity towards both the human and the rat enzyme. European Journal of Medicinal Chemistry, 2015, 103, 56-68.	5.5	10
48	Quorum Sensing Inhibitors as Pathoblockers for <i>Pseudomonas aeruginosa</i> Infections: A New Concept in Anti-Infective Drug Discovery. Topics in Medicinal Chemistry, 2017, , 185-210.	0.8	10
49	Inhibition of 17 β -HSD1: SAR of bicyclic substituted hydroxyphenylmethanones and discovery of new potent inhibitors with thioether linker. European Journal of Medicinal Chemistry, 2014, 82, 394-406.	5.5	9
50	Mechanistic details for anthraniloyl transfer in PqsD: the initial step in HHQ biosynthesis. Journal of Molecular Modeling, 2014, 20, 2255.	1.8	8
51	Transferring Microclusters of <i>P. aeruginosa</i> Biofilms to the Air-Liquid Interface of Bronchial Epithelial Cells for Repeated Deposition of Aerosolized Tobramycin. ACS Infectious Diseases, 2022, 8, 137-149.	3.8	8
52	Hit-to-lead optimization of a latency-associated nuclear antigen inhibitor against Kaposi's sarcoma-associated herpesvirus infections. European Journal of Medicinal Chemistry, 2020, 202, 112525.	5.5	7
53	Microwave-Assisted Synthesis of 4-Substituted 2-Methylthiopyrimidines. Synlett, 2014, 25, 935-938.	1.8	5
54	Mild and Catalyst-Free Microwave-Assisted Synthesis of 4,6-Disubstituted 2-Methylthiopyrimidines – Exploiting Tetrazole as an Efficient Leaving Group. Synlett, 2015, 26, 2606-2610.	1.8	5

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55	Divergent synthesis and biological evaluation of 2-(trifluoromethyl)pyridines as virulence-attenuating inverse agonists targeting PqsR. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113797.	5.5	5
56	Biophysical Screening of a Focused Library for the Discovery of CYP121 Inhibitors as Novel Antimycobacterials. <i>ChemMedChem</i> , 2017, 12, 1616-1626.	3.2	4
57	Phage display-based discovery of cyclic peptides against the broad spectrum bacterial anti-virulence target CsrA. <i>European Journal of Medicinal Chemistry</i> , 2022, 231, 114148.	5.5	3
58	Synthetic Quorum Sensing Inhibitors (QSIs) Blocking Receptor Signaling or Signal Molecule Biosynthesis in <i>Pseudomonas aeruginosa</i> . , 2015, , 303-317.		2
59	Trendbericht Biochemie 2017: Zellpenetration. <i>Nachrichten Aus Der Chemie</i> , 2018, 66, 294-298.	0.0	1
60	Hit evaluation of an α -helical peptide: Ala-scan, truncation and sidechain-to-sidechain macrocyclization of an RNA polymerase Inhibitor. <i>Biological Chemistry</i> , 2019, 400, 333-342.	2.5	1
61	Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P. aeruginosa</i> Biofilm Infections. <i>Angewandte Chemie</i> , 2020, 132, 10378-10382.	2.0	1
62	KSHV-specific antivirals targeting the proteinâ€‘DNA interaction of the latency-associated nuclear antigen. <i>Future Medicinal Chemistry</i> , 2021, 13, 1141-1151.	2.3	1
63	Restriction-Free Construction of a Phage-Presented Very Short Macrocyclic Peptide Library. <i>Methods in Molecular Biology</i> , 2020, 2070, 95-113.	0.9	1
64	Trendbericht Biochemie 2017: Pathoblocker - Ein neues Konzept gegen bakterielle Infektionen. <i>Nachrichten Aus Der Chemie</i> , 2018, 66, 290-294.	0.0	0
65	Shark attack: HaiantikÃ¶rper fÃ¼r Biomedizin und Biotechnologie. <i>BioSpektrum</i> , 2018, 24, 142-145.	0.0	0
66	Titelbild: Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P. aeruginosa</i> Biofilm Infections (<i>Angew. Chem.</i> 26/2020). <i>Angewandte Chemie</i> , 2020, 132, 10285-10285.	2.0	0