Marcelo D T Torres

List of Publications by Year
in descending order

65 papers	2,473 citations	218381 26 h-index	223531 46 g-index
68 all docs	68 docs citations	68 times ranked	2457 citing authors

#	Article	IF	Citations
1	Mining for encrypted peptide antibiotics in the human proteome. Nature Biomedical Engineering, 2022, 6, 67-75.	11.6	64
2	Methods for the design and characterization of peptide antibiotics. Methods in Enzymology, 2022, 663, 303-326.	0.4	13
3	Synthetic Antibiotic Derived from Sequences Encrypted in a Protein from Human Plasma. ACS Nano, 2022, 16, 1880-1895.	7.3	23
4	Detection of SARS-CoV-2 with RAPID: A prospective cohort study. IScience, 2022, 25, 104055.	1.9	8
5	Autonomous Treatment of Bacterial Infections <i>in Vivo</i> Using Antimicrobial Micro- and Nanomotors. ACS Nano, 2022, 16, 7547-7558.	7.3	48
6	Debulking different Corona (SARS-CoV-2 delta, omicron, OC43) and Influenza (H1N1, H3N2) virus strains by plant viral trap proteins in chewing gums to decrease infection and transmission. Biomaterials, 2022, 288, 121671.	5.7	16
7	Net charge tuning modulates the antiplasmodial and anticancer properties of peptides derived from scorpion venom. Journal of Peptide Science, 2021, 27, e3296.	0.8	7
8	Coatable and Resistance-Proof Ionic Liquid for Pathogen Eradication. ACS Nano, 2021, 15, 966-978.	7.3	28
9	Antibiofilm Peptides: Relevant Preclinical Animal Infection Models and Translational Potential. ACS Pharmacology and Translational Science, 2021, 4, 55-73.	2.5	23
10	Synthetic Biology and Computer-Based Frameworks for Antimicrobial Peptide Discovery. ACS Nano, 2021, 15, 2143-2164.	7.3	51
11	Molecular Dynamics for Antimicrobial Peptide Discovery. Infection and Immunity, 2021, 89, .	1.0	33
12	Antimicrobial Susceptibility Testing of Antimicrobial Peptides Requires New and Standardized Testing Structures. ACS Infectious Diseases, 2021, 7, 2205-2208.	1.8	14
13	Low-cost biosensor for rapid detection of SARS-CoV-2 at the point of care. Matter, 2021, 4, 2403-2416.	5.0	91
14	Minute-scale detection of SARS-CoV-2 using a low-cost biosensor composed of pencil graphite electrodes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	93
15	Synthetic Peptide Derived from Scorpion Venom Displays Minimal Toxicity and Anti-infective Activity in an Animal Model. ACS Infectious Diseases, 2021, 7, 2736-2745.	1.8	6
16	Low-Cost Optodiagnostic for Minute-Time Scale Detection of SARS-CoV-2. ACS Nano, 2021, 15, 17453-17462.	7.3	40
17	Simple and inexpensive electrochemical paper-based analytical device for sensitive detection of Pseudomonas aeruginosa. Sensors and Actuators B: Chemical, 2020, 308, 127669.	4.0	46
18	Photochemically-Generated Silver Chloride Nanoparticles Stabilized by a Peptide Inhibitor of Cell Division and Its Antimicrobial Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 2464-2474.	1.9	8

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19	Repurposing a peptide toxin from wasp venom into antiinfectives with dual antimicrobial and immunomodulatory properties. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26936-26945.	3.3	48
20	Physical methods for controlling bacterial colonization on polymer surfaces. Biotechnology Advances, 2020, 43, 107586.	6.0	40
21	Light-Emitting Probes for Labeling Peptides. Cell Reports Physical Science, 2020, 1, 100257.	2.8	7
22	Arg-substituted VmCT1 analogs reveals promising candidate for the development of new antichagasic agent. Parasitology, 2020, 147, 1810-1818.	0.7	6
23	Synthetic Host Defense Peptides Inhibit Venezuelan Equine Encephalitis Virus Replication and the Associated Inflammatory Response. Scientific Reports, 2020, 10, 21491.	1.6	6
24	The wasp venom antimicrobial peptide <scp>polybiaâ€CP</scp> and its synthetic derivatives display antiplasmodial and anticancer properties. Bioengineering and Translational Medicine, 2020, 5, e10167.	3.9	17
25	Wasp venom peptide as a new antichagasic agent. Toxicon, 2020, 181, 71-78.	0.8	19
26	Antimicrobial Susceptibility Testing of Antimicrobial Peptides to Better Predict Efficacy. Frontiers in Cellular and Infection Microbiology, 2020, 10, 326.	1.8	70
27	Computer-Aided Design of Mastoparan-like Peptides Enables the Generation of Nontoxic Variants with Extended Antibacterial Properties. Journal of Medicinal Chemistry, 2019, 62, 8140-8151.	2.9	19
28	Antimicrobial and Antibiofilm Activities of Helical Antimicrobial Peptide Sequences Incorporating Metal-Binding Motifs. Biochemistry, 2019, 58, 3802-3812.	1.2	32
29	Engineering Phage Host-Range and Suppressing Bacterial Resistance through Phage Tail Fiber Mutagenesis. Cell, 2019, 179, 459-469.e9.	13.5	208
30	Repurposing the scorpion venom peptide VmCT1 into an active peptide against Gram-negative ESKAPE pathogens. Bioorganic Chemistry, 2019, 90, 103038.	2.0	10
31	The effect of lysine substitutions in the biological activities of the scorpion venom peptide VmCT1. European Journal of Pharmaceutical Sciences, 2019, 136, 104952.	1.9	21
32	Toward computer-made artificial antibiotics. Current Opinion in Microbiology, 2019, 51, 30-38.	2.3	44
33	Short Cationic Peptide Derived from Archaea with Dual Antibacterial Properties and Anti-Infective Potential. ACS Infectious Diseases, 2019, 5, 1081-1086.	1.8	37
34	Selective antibacterial activity of the cationic peptide PaDBS1R6 against Gram-negative bacteria. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1375-1387.	1.4	38
35	Reprogramming biological peptides to combat infectious diseases. Chemical Communications, 2019, 55, 15020-15032.	2.2	45
36	Peptide Design Principles for Antimicrobial Applications. Journal of Molecular Biology, 2019, 431, 3547-3567.	2.0	273

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37	In silico optimization of a guava antimicrobial peptide enables combinatorial exploration for peptide design. Nature Communications, 2018, 9, 1490.	5.8	179
38	Yeast-Based Synthetic Biology Platform for Antimicrobial Peptide Production. ACS Synthetic Biology, 2018, 7, 896-902.	1.9	76
39	Novel bioactive peptides from PD-L1/2, a type 1 ribosome inactivating protein from Phytolacca dioica L. Evaluation of their antimicrobial properties and anti-biofilm activities. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1425-1435.	1.4	24
40	Anticancer activity of VmCT1 analogs against MCFâ€7 cells. Chemical Biology and Drug Design, 2018, 91, 588-596.	1.5	14
41	Polynitroxide copolymers to reduce biofilm fouling on surfaces. Polymer Chemistry, 2018, 9, 5308-5318.	1.9	26
42	Structure-function-guided exploration of the antimicrobial peptide polybia-CP identifies activity determinants and generates synthetic therapeutic candidates. Communications Biology, 2018, 1, 221.	2.0	111
43	A Computationally Designed Peptide Derived from <i>Escherichia coli</i> as a Potential Drug Template for Antibacterial and Antibiofilm Therapies. ACS Infectious Diseases, 2018, 4, 1727-1736.	1.8	30
44	Peptide Design Enables Reengineering of an Inactive Wasp Venom Peptide into Synthetic Antiplasmodial Agents. ChemistrySelect, 2018, 3, 5859-5863.	0.7	10
45	Natural and redesigned wasp venom peptides with selective antitumoral activity. Beilstein Journal of Organic Chemistry, 2018, 14, 1693-1703.	1.3	35
46	Identification of Novel Cryptic Multifunctional Antimicrobial Peptides from the Human Stomach Enabled by a Computationalâ€“Experimental Platform. ACS Synthetic Biology, 2018, 7, 2105-2115.	1.9	63
47	Magnetic Surfactant Ionic Liquids and Polymers With Tetrahaloferrate (III) Anions as Antimicrobial Agents With Low Cytotoxicity. Colloids and Interface Science Communications, 2018, 22, 11-13.	2.0	24
48	Decoralin Analogs with Increased Resistance to Degradation and Lower Hemolytic Activity. ChemistrySelect, 2017, 2, 18-23.	0.7	29
49	Next-generation precision antimicrobials: towards personalized treatment of infectious diseases. Current Opinion in Microbiology, 2017, 37, 95-102.	2.3	100
50	Angiotensin II-derived constrained peptides with antiplasmodial activity and suppressed vasoconstriction. Scientific Reports, 2017, 7, 14326.	1.6	17
51	Antimicrobial activity of leucineâ€substituted decoralin analogs with lower hemolytic activity. Journal of Peptide Science, 2017, 23, 818-823.	0.8	24
52	Novel designed VmCT1 analogs with increased antimicrobial activity. European Journal of Medicinal Chemistry, 2017, 126, 456-463.	2.6	37
53	Evidences for the action mechanism of angiotensin II and its analogs on<i>Plasmodium</i>sporozoite membranes. Journal of Peptide Science, 2016, 22, 132-142.	0.8	9
54	New linear antiplasmodial peptides related to angiotensin II. Malaria Journal, 2015, 14, 433.	0.8	11

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55	Anti-plasmodial activity of bradykinin and analogs. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3311-3313.	1.0	7
56	Effects of the angiotensin II Ala-scan analogs in erythrocytic cycle of Plasmodium falciparum (in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.5	6
57	Angiotensin II restricted analogs with biological activity in the erythrocytic cycle of Plasmodium falciparum. Journal of Peptide Science, 2015, 21, 24-28.	0.8	12
58	Highly Potential Antiplasmodial Restricted Peptides. Chemical Biology and Drug Design, 2015, 85, 163-171.	1.5	16
59	Mechanistic Proposal for Restricted Peptides Action on Parasite Membrane. , 2015, , .		0
60	Linear Peptides Related to Angiotensin II with Antiplasmodial Activity. , 2015, , .		0
61	The Importance of Ring Size and Position for the Antiplasmodial Activity of Angiotensin II Restricted Analogs. International Journal of Peptide Research and Therapeutics, 2014, 20, 277-287.	0.9	11
62	Antiplasmodial activity study of angiotensin II via Ala scan analogs. Journal of Peptide Science, 2014, 20, 640-648.	0.8	24
63	Effects of Amino Acid Deletion on the Antiplasmodial Activity of Angiotensin II. International Journal of Peptide Research and Therapeutics, 2014, 20, 553-564.	0.9	6
64	A study of the antiâ€plasmodium activity of angiotensin II analogs. Journal of Peptide Science, 2013, 19, 575-580.	0.8	19
65	Importance of N-Terminal Extremity Restriction in the Antiplasmodial Activity of Angiotensin II. , 2013, , .		0