

Genwei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

595
citations

516710

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677142

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740
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>De Novo</i> Discovery of High-Affinity Peptide Binders for the SARS-CoV-2 Spike Protein. <i>ACS Central Science</i> , 2021, 7, 156-163.	11.3	69
2	Anopheles Midgut FREP1 Mediates Plasmodium Invasion. <i>Journal of Biological Chemistry</i> , 2015, 290, 16490-16501.	3.4	55
3	Towards rapid prediction of drug-resistant cancer cell phenotypes: single cell mass spectrometry combined with machine learning. <i>Chemical Communications</i> , 2019, 55, 616-619.	4.1	50
4	Selectively Suppressing Tumor Angiogenesis for Targeted Breast Cancer Therapy by Genetically Engineered Phage. <i>Advanced Materials</i> , 2020, 32, e2001260.	21.0	40
5	Genome-block expression-assisted association studies discover malaria resistance genes in <i>Anopheles gambiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20675-20680.	7.1	37
6	The fibrinogen-like domain of FREP1 protein is a broad-spectrum malaria transmission-blocking vaccine antigen. <i>Journal of Biological Chemistry</i> , 2017, 292, 11960-11969.	3.4	35
7	Anticancer Drug Affects Metabolomic Profiles in Multicellular Spheroids: Studies Using Mass Spectrometry Imaging Combined with Machine Learning. <i>Analytical Chemistry</i> , 2019, 91, 5802-5809.	6.5	31
8	Targeting mosquito FREP1 with a fungal metabolite blocks malaria transmission. <i>Scientific Reports</i> , 2015, 5, 14694.	3.3	29
9	Towards early monitoring of chemotherapy-induced drug resistance based on single cell metabolomics: Combining single-probe mass spectrometry with machine learning. <i>Analytica Chimica Acta</i> , 2019, 1092, 42-48.	5.4	29
10	Design, Synthesis, and Evaluation of Reversible and Irreversible Monoacylglycerol Lipase Positron Emission Tomography (PET) Tracers Using a "Tail Switching" Strategy on a Piperazinyl Azetidine Skeleton. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 3336-3353.	6.4	28
11	Integrating a generalized data analysis workflow with the Single-probe mass spectrometry experiment for single cell metabolomics. <i>Analytica Chimica Acta</i> , 2019, 1064, 71-79.	5.4	24
12	Fully automated fast-flow synthesis of antisense phosphorodiamidate morpholino oligomers. <i>Nature Communications</i> , 2021, 12, 4396.	12.8	24
13	Design, Synthesis, and Evaluation of ¹⁸ F-Labeled Monoacylglycerol Lipase Inhibitors as Novel Positron Emission Tomography Probes. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8866-8872.	6.4	22
14	Discovery of Nucleic Acid Binding Molecules from Combinatorial Biohybrid Nucleobase Peptide Libraries. <i>Journal of the American Chemical Society</i> , 2020, 142, 19642-19651.	13.7	22
15	Towards enhanced metabolomic data analysis of mass spectrometry image: Multivariate Curve Resolution and Machine Learning. <i>Analytica Chimica Acta</i> , 2018, 1037, 211-219.	5.4	21
16	Synthesis, pharmacology and preclinical evaluation of ¹¹ C-labeled 1,3-dihydro-2H-benzo[d]imidazole-2-ones for imaging ¹³⁸ I-dependent transmembrane AMPA receptor regulatory protein. <i>European Journal of Medicinal Chemistry</i> , 2018, 157, 898-908.	5.5	18
17	Automated Flow Synthesis of Peptide-PNA Conjugates. <i>ACS Central Science</i> , 2022, 8, 205-213.	11.3	17
18	Synthesis and Preliminary Evaluations of a Triazole-Cored Antagonist as a PET Imaging Probe (¹⁸ F]N2B-0518) for GluN2B Subunit in the Brain. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2263-2275.	3.5	13

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19	Automated affinity selection for rapid discovery of peptide binders. Chemical Science, 2021, 12, 10817-10824.	7.4	10
20	Rapid de novo discovery of peptidomimetic affinity reagents for human angiotensin converting enzyme 2. Communications Chemistry, 2022, 5, .	4.5	7
21	An in vivo selection-derived <sc>d</sc>-peptide for engineering erythrocyte-binding antigens that promote immune tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
22	FBN30 in wildÂAnopheles gambiae functions as a pathogen recognition molecule against clinically circulating Plasmodium falciparum in malaria endemic areas in Kenya. Scientific Reports, 2017, 7, 8577.	3.3	5