

Rui Wang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,274
citations

394421

19
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

3576
citing authors

#	ARTICLE	IF	CITATIONS
1	Omicron Variant (B.1.1.529): Infectivity, Vaccine Breakthrough, and Antibody Resistance. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 412-422.	5.4	507
2	Mutations Strengthened SARS-CoV-2 Infectivity. <i>Journal of Molecular Biology</i> , 2020, 432, 5212-5226.	4.2	386
3	Mutations on COVID-19 diagnostic targets. <i>Genomics</i> , 2020, 112, 5204-5213.	2.9	164
4	Vaccine-escape and fast-growing mutations in the United Kingdom, the United States, Singapore, Spain, India, and other COVID-19-devastated countries. <i>Genomics</i> , 2021, 113, 2158-2170.	2.9	164
5	Analysis of SARS-CoV-2 mutations in the United States suggests presence of four substrains and novel variants. <i>Communications Biology</i> , 2021, 4, 228.	4.4	126
6	Decoding SARS-CoV-2 Transmission and Evolution and Ramifications for COVID-19 Diagnosis, Vaccine, and Medicine. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5853-5865.	5.4	91
7	Prediction and mitigation of mutation threats to COVID-19 vaccines and antibody therapies. <i>Chemical Science</i> , 2021, 12, 6929-6948.	7.4	85
8	Repositioning of 8565 Existing Drugs for COVID-19. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5373-5382.	4.6	78
9	Mechanisms of SARS-CoV-2 Evolution Revealing Vaccine-Resistant Mutations in Europe and America. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11850-11857.	4.6	73
10	Host Immune Response Driving SARS-CoV-2 Evolution. <i>Viruses</i> , 2020, 12, 1095.	3.3	68
11	Perspectives on SARS-CoV-2 Main Protease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16922-16955.	6.4	63
12	Unveiling the molecular mechanism of SARS-CoV-2 main protease inhibition from 137 crystal structures using algebraic topology and deep learning. <i>Chemical Science</i> , 2020, 11, 12036-12046.	7.4	62
13	Decoding Asymptomatic COVID-19 Infection and Transmission. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10007-10015.	4.6	61
14	Emerging Vaccine-Breakthrough SARS-CoV-2 Variants. <i>ACS Infectious Diseases</i> , 2022, 8, 546-556.	3.8	59
15	UMAP-assisted K-means clustering of large-scale SARS-CoV-2 mutation datasets. <i>Computers in Biology and Medicine</i> , 2021, 131, 104264.	7.0	57
16	Revealing the Threat of Emerging SARS-CoV-2 Mutations to Antibody Therapies. <i>Journal of Molecular Biology</i> , 2021, 433, 167155.	4.2	53
17	GGL-Tox: Geometric Graph Learning for Toxicity Prediction. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1691-1700.	5.4	43
18	Methodology-Centered Review of Molecular Modeling, Simulation, and Prediction of SARS-CoV-2. <i>Chemical Reviews</i> , 2022, 122, 11287-11368.	47.7	38

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19	Review of COVID-19 Antibody Therapies. Annual Review of Biophysics, 2021, 50, 1-30.	10.0	34
20	A Bivalent COVID-19 Vaccine Based on Alpha and Beta Variants Elicits Potent and Broad Immune Responses in Mice against SARS-CoV-2 Variants. Vaccines, 2022, 10, 702.	4.4	18
21	SARS-CoV-2 becoming more infectious as revealed by algebraic topology and deep learning. Communications in Information and Systems, 2021, 21, 31-36.	0.5	1