

Alec A Desai

List of Publications by Year in descending order

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papers

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1163117

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16
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16
docs citations

16
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331
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile isolation of high-affinity nanobodies from synthetic libraries using CDR-swapping mutagenesis. STAR Protocols, 2022, 3, 101101.	1.2	5
2	Rapid and Quantitative <i>In Vitro</i> Evaluation of SARS-CoV-2 Neutralizing Antibodies and Nanobodies. Analytical Chemistry, 2022, 94, 4504-4512.	6.5	3
3	Isolating Anti-amyloid Antibodies from Yeast-Displayed Libraries. Methods in Molecular Biology, 2022, 2491, 471-490.	0.9	3
4	Co-optimization of therapeutic antibody affinity and specificity using machine learning models that generalize to novel mutational space. Nature Communications, 2022, 13, .	12.8	55
5	Directed evolution of conformation-specific antibodies for sensitive detection of polypeptide aggregates in therapeutic drug formulations. Biotechnology and Bioengineering, 2021, 118, 797-808.	3.3	2
6	Rational affinity maturation of anti-amyloid antibodies with high conformational and sequence specificity. Journal of Biological Chemistry, 2021, 296, 100508.	3.4	19
7	Highly sensitive detection of antibody nonspecific interactions using flow cytometry. MAbs, 2021, 13, 1951426.	5.2	22
8	Engineered Multivalent Nanobodies Potently and Broadly Neutralize SARS-CoV-2 Variants. Advanced Therapeutics, 2021, 4, 2100099.	3.2	27
9	Directed evolution of potent neutralizing nanobodies against SARS-CoV-2 using CDR-swapping mutagenesis. Cell Chemical Biology, 2021, 28, 1379-1388.e7.	5.2	31
10	Discovery and characterization of high-affinity, potent SARS-CoV-2 neutralizing antibodies via single B cell screening. Scientific Reports, 2021, 11, 20738.	3.3	11
11	A hybridoma-derived monoclonal antibody with high homology to the aberrant myeloma light chain. PLoS ONE, 2021, 16, e0252558.	2.5	4
12	Physicochemical Rules for Identifying Monoclonal Antibodies with Drug-like Specificity. Molecular Pharmaceutics, 2020, 17, 2555-2569.	4.6	42
13	Sensitive detection of glucagon aggregation using amyloid fibril-specific antibodies. Biotechnology and Bioengineering, 2019, 116, 1868-1877.	3.3	5
14	Nature-inspired design and evolution of anti-amyloid antibodies. Journal of Biological Chemistry, 2019, 294, 8438-8451.	3.4	20
15	Understanding and overcoming trade-offs between antibody affinity, specificity, stability and solubility. Biochemical Engineering Journal, 2018, 137, 365-374.	3.6	99