

Alec A Desai

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

348
citations

1163117

8
h-index

996975

15
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16
all docs

16
docs citations

16
times ranked

331
citing authors

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