Brandon J Dekosky

List of Publications by Year
in descending order

39 papers	3,878 citations	394421 19 h-index	345221 36 g-index
45 all docs	45 docs citations	45 times ranked	6592 citing authors

#	Article	IF	Citations
1	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. Nature, 2014, 509, 55-62.	27.8	681
2	Antibody-dependent enhancement and SARS-CoV-2 vaccines and therapies. Nature Microbiology, 2020, 5, 1185-1191.	13.3	553
3	High-throughput sequencing of the paired human immunoglobulin heavy and light chain repertoire. Nature Biotechnology, 2013, 31, 166-169.	17.5	401
4	In-depth determination and analysis of the human paired heavy- and light-chain antibody repertoire. Nature Medicine, 2015, 21, 86-91.	30.7	345
5	Molecular-level analysis of the serum antibody repertoire in young adults before and after seasonal influenza vaccination. Nature Medicine, 2016, 22, 1456-1464.	30.7	271
6	Low CD21 expression defines a population of recent germinal center graduates primed for plasma cell differentiation. Science Immunology, 2017, 2, .	11.9	203
7	Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. Cell, 2016, 166, 1471-1484.e18.	28.9	198
8	Large-scale sequence and structural comparisons of human naive and antigen-experienced antibody repertoires. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2636-45.	7.1	179
9	Ultra-high-throughput sequencing of the immune receptor repertoire from millions of lymphocytes. Nature Protocols, 2016, 11, 429-442.	12.0	140
10	Hierarchically Designed Agarose and Poly(Ethylene Glycol) Interpenetrating Network Hydrogels for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2010, 16, 1533-1542.	2.1	131
11	Glycan Masking Focuses Immune Responses to the HIV-1 CD4-Binding Site and Enhances Elicitation of VRC01-Class Precursor Antibodies. Immunity, 2018, 49, 301-311.e5.	14.3	110
12	Functional interrogation and mining of natively paired human VH:VL antibody repertoires. Nature Biotechnology, 2018, 36, 152-155.	17.5	109
13	The Molecular Mechanisms That Underlie the Immune Biology of Anti-drug Antibody Formation Following Treatment With Monoclonal Antibodies. Frontiers in Immunology, 2020, 11, 1951.	4.8	102
14	Structure-Based Design with Tag-Based Purification and In-Process Biotinylation Enable Streamlined Development of SARS-CoV-2 Spike Molecular Probes. Cell Reports, 2020, 33, 108322.	6.4	59
15	Facile Discovery of a Diverse Panel of Anti-Ebola Virus Antibodies by Immune Repertoire Mining. Scientific Reports, 2015, 5, 13926.	3.3	47
16	Paired heavy- and light-chain signatures contribute to potent SARS-CoV-2 neutralization in public antibody responses. Cell Reports, 2021, 37, 109771.	6.4	38
17	Vaccination with prefusion-stabilized respiratory syncytial virus fusion protein induces genetically and antigenically diverse antibody responses. Immunity, 2021, 54, 769-780.e6.	14.3	37
18	Human intratumoral therapy: Linking drug properties and tumor transport of drugs in clinical trials. Journal of Controlled Release, 2020, 326, 203-221.	9.9	33

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19	Antibody-guided structure-based vaccines. Seminars in Immunology, 2020, 50, 101428.	5.6	29
20	VRC34-Antibody Lineage Development Reveals How a Required Rare Mutation Shapes the Maturation of a Broad HIV-Neutralizing Lineage. Cell Host and Microbe, 2020, 27, 531-543.e6.	11.0	23
21	Ultrasonically-guided flow focusing generates precise emulsion droplets for high-throughput single cell analyses. Journal of Bioscience and Bioengineering, 2019, 128, 226-233.	2.2	21
22	Mutational fitness landscapes reveal genetic and structural improvement pathways for a vaccine-elicited HIV-1 broadly neutralizing antibody. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
23	Molecular probes of spike ectodomain and its subdomains for SARS-CoV-2 variants, Alpha through Omicron. PLoS ONE, 2022, 17, e0268767.	2.5	18
24	Functional Profiling of Antibody Immune Repertoires in Convalescent Zika Virus Disease Patients. Frontiers in Immunology, 2021, 12, 615102.	4.8	15
25	Highly protective antimalarial antibodies via precision library generation and yeast display screening. Journal of Experimental Medicine, 2022, 219, .	8.5	9
26	A molecular trap against COVID-19. Science, 2020, 369, 1167-1168.	12.6	7
27	Regulatory Approved Monoclonal Antibodies Contain Framework Mutations Predicted From Human Antibody Repertoires. Frontiers in Immunology, 2021, 12, 728694.	4.8	7
28	Multimeric Insulin Desensitizes Insulin-Specific B Cells. ACS Applied Bio Materials, 2020, 3, 6319-6330.	4.6	6
29	Optimized Production of Fc Fusion Proteins by Sortase Enzymatic Ligation. Industrial & Engineering Chemistry Research, 2021, 60, 16839-16853.	3.7	5
30	The covalent SNAP tag for protein display quantification and low-pH protein engineering. Journal of Biotechnology, 2020, 320, 50-56.	3.8	4
31	Linking autoantigen properties to mechanisms of immunity. Advanced Drug Delivery Reviews, 2020, 165-166, 105-116.	13.7	4
32	Antibody screening at reduced <scp>pH</scp> enables preferential selection of potently neutralizing antibodies targeting <scp>SARSâ€CoV</scp>â€2. AICHE Journal, 2021, 67, e17440.	3.6	4
33	Handmade microfluidic device for biochemical applications in emulsion. Journal of Bioscience and Bioengineering, 2016, 121, 471-476.	2.2	3
34	Structure-Based Design with Tag-Based Purification and In-Process Biotinylation Enable Streamlined Development of SARS-CoV-2 Spike Molecular Probes. SSRN Electronic Journal, 2020, , 3639618.	0.4	3
35	Tetrameric Fluorescent Antigen Arrays for Single-Step Identification of Antigen-Specific B Cells. Journal of Visualized Experiments, 2020, , .	0.3	2
36	Immortalization and functional screening of natively paired human T cell receptor repertoires. Protein Engineering, Design and Selection, 2022, 35, .	2.1	2

#	Article	IF	Citations
37	Paired Heavy and Light Chain Signatures Contribute to Potent SARS-CoV-2 Neutralization in Public Antibody Responses. SSRN Electronic Journal, 0, , .	0.4	1
38	Sequence-Signature Optimization Enables Improved Identification of Human HV6-1-Derived Class Antibodies That Neutralize Diverse Influenza A Viruses. Frontiers in Immunology, 2021, 12, 662909.	4.8	0
39	Strategies to Screen Anti-AQP4 Antibodies from Yeast Surface Display Libraries. Antibodies, 2022, 11, 39.	2.5	0