

Jennifer A Maynard

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,854
citations

201385

27
h-index

138251

58
g-index

72
all docs

72
docs citations

72
times ranked

6415
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibodies binding diverse pertactin epitopes protect mice from <i>Bordetella pertussis</i> infection. <i>Journal of Biological Chemistry</i> , 2022, 298, 101715.	1.6	4
2	The SARS-CoV-2 spike reversibly samples an open-trimer conformation exposing novel epitopes. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 229-238.	3.6	81
3	An antibody Fc engineered for conditional antibody-dependent cellular cytotoxicity at the low tumor microenvironment pH. <i>Journal of Biological Chemistry</i> , 2022, 298, 101798.	1.6	5
4	Bioproduced Proteins On Demand (Bio-POD) in hydrogels using <i>Pichia pastoris</i> . <i>Bioactive Materials</i> , 2021, 6, 2390-2399.	8.6	13
5	Structural basis for antibody binding to adenylate cyclase toxin reveals RTX linkers as neutralization-sensitive epitopes. <i>PLoS Pathogens</i> , 2021, 17, e1009920.	2.1	9
6	Recombinant antibodies recognize conformation-dependent epitopes of the leucine zipper of misfolding-prone myocilin. <i>Journal of Biological Chemistry</i> , 2021, 297, 101067.	1.6	1
7	Expression and characterization of SARS-CoV-2 spike proteins. <i>Nature Protocols</i> , 2021, 16, 5339-5356.	5.5	31
8	Structure-based design of prefusion-stabilized SARS-CoV-2 spikes. <i>Science</i> , 2020, 369, 1501-1505.	6.0	977
9	Neutralization of pertussis toxin by a single antibody prevents clinical pertussis in neonatal baboons. <i>Science Advances</i> , 2020, 6, eaay9258.	4.7	26
10	A facile technology for the high-throughput sequencing of the paired VH:VL and TCR β :TCR α repertoires. <i>Science Advances</i> , 2020, 6, eaay9093.	4.7	18
11	Engineering Antibodies on the Surface of CHO Cells. <i>Methods in Molecular Biology</i> , 2020, 2070, 397-422.	0.4	2
12	Human cytomegalovirus-specific T-cell receptor engineered for high affinity and soluble expression using mammalian cell display. <i>Journal of Biological Chemistry</i> , 2019, 294, 5790-5804.	1.6	19
13	When monoclonal antibodies are not monospecific: Hybridomas frequently express additional functional variable regions. <i>MAbs</i> , 2018, 10, 539-546.	2.6	74
14	Recent Advances Incorporating Superparamagnetic Nanoparticles into Immunoassays. <i>ACS Applied Nano Materials</i> , 2018, 1, 512-521.	2.4	64
15	Measurement of Two-Photon Absorption of Silicon Nanocrystals in Colloidal Suspension for Bio-imaging Applications. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700501.	0.7	12
16	Characterization of Individual Human Antibodies That Bind Pertussis Toxin Stimulated by Acellular Immunization. <i>Infection and Immunity</i> , 2018, 86, .	1.0	13
17	Identification of high affinity HER2 binding antibodies using CHO Fab surface display. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 91-101.	1.0	13
18	Engineering therapeutic antibodies to combat infectious diseases. <i>Current Opinion in Chemical Engineering</i> , 2018, 19, 131-141.	3.8	28

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19	Humanised monoclonal antibodies neutralise pertussis toxin by receptor blockade and reduced retrograde trafficking. <i>Cellular Microbiology</i> , 2018, 20, e12948.	1.1	11
20	Evaluation of Adenylate Cyclase Toxoid Antigen in Acellular Pertussis Vaccines by Using a <i>Bordetella pertussis</i> Challenge Model in Mice. <i>Infection and Immunity</i> , 2018, 86, .	1.0	30
21	Fine Epitope Mapping of Two Antibodies Neutralizing the <i>Bordetella</i> Adenylate Cyclase Toxin. <i>Biochemistry</i> , 2017, 56, 1324-1336.	1.2	14
22	Prior exposure to <i>Bordetella</i> species as an exclusion criterion in the baboon model of pertussis. <i>Journal of Veterinary Medical Science</i> , 2017, 79, 60-64.	0.3	10
23	De novo design of antibody complementarity determining regions binding a FLAG tetra-peptide. <i>Scientific Reports</i> , 2017, 7, 10295.	1.6	27
24	Charge Shielding Prevents Aggregation of Supercharged GFP Variants at High Protein Concentration. <i>Molecular Pharmaceutics</i> , 2017, 14, 3269-3280.	2.3	27
25	Passive Immunization with Anti-Pertussis Toxin Humanized Monoclonal Antibody Mitigates Clinical Signs of Pertussis Infection in Newborn Baboons. <i>Open Forum Infectious Diseases</i> , 2017, 4, S4-S5.	0.4	0
26	Synergistic Neutralization of Pertussis Toxin by a Bispecific Antibody <i>In Vitro</i> and <i>In Vivo</i> . <i>Vaccine Journal</i> , 2016, 23, 851-862.	3.2	14
27	Viscosity Reduction of a Concentrated Monoclonal Antibody with Arginine-HCl and Arginine-Glutamate. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11225-11234.	1.8	30
28	Inclusion of an RGD Motif Alters Invasin Integrin-Binding Affinity and Specificity. <i>Biochemistry</i> , 2016, 55, 2078-2090.	1.2	7
29	Bioavailability of Fullerene under Environmentally Relevant Conditions: Effects of Humic Acid and Fetal Bovine Serum on Accumulation in Lipid Bilayers and Cellular Uptake. <i>Environmental Science & Technology</i> , 2016, 50, 6717-6727.	4.6	23
30	The <i>Bordetella</i> Adenylate Cyclase Repeat-in-Toxin (RTX) Domain Is Immunodominant and Elicits Neutralizing Antibodies. <i>Journal of Biological Chemistry</i> , 2015, 290, 3576-3591.	1.6	30
31	Structural and biophysical characterization of an epitope-specific engineered Fab fragment and complexation with membrane proteins: implications for co-crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 896-906.	2.5	13
32	Rapid Fine Conformational Epitope Mapping Using Comprehensive Mutagenesis and Deep Sequencing. <i>Journal of Biological Chemistry</i> , 2015, 290, 26457-26470.	1.6	67
33	Increased Fab thermoresistance via V _H -targeted directed evolution. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 365-377.	1.0	9
34	A cocktail of humanized anti-pertussis toxin antibodies limits disease in murine and baboon models of whooping cough. <i>Science Translational Medicine</i> , 2015, 7, 316ra195.	5.8	48
35	Effects of protein engineering and rational mutagenesis on crystal lattice of single chain antibody fragments. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 1884-1895.	1.5	5
36	Immunotherapeutic Approaches To Prevent Cytomegalovirus-Mediated Disease. <i>Microbiology Spectrum</i> , 2014, 2, AID-0009-2013.	1.2	3

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37	In Vivo Whole Animal Fluorescence Imaging of a Microparticle-Based Oral Vaccine Containing (CuInSexS ₂ â€“x)/ZnS Core/Shell Quantum Dots. <i>Nano Letters</i> , 2013, 13, 4294-4298.	4.5	98
38	Frozen-State Storage Stability of a Monoclonal Antibody: Aggregation is Impacted by Freezing Rate and Solute Distribution. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1194-1208.	1.6	64
39	Back to the future: recombinant polyclonal antibody therapeutics. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 405-415.	3.8	26
40	Tunable equilibrium nanocluster dispersions at high protein concentrations. <i>Soft Matter</i> , 2013, 9, 1766-1771.	1.2	30
41	The Skp Chaperone Helps Fold Soluble Proteins <i>in Vitro</i> by Inhibiting Aggregation. <i>Biochemistry</i> , 2012, 51, 4822-4834.	1.2	35
42	Nanohole-Based Surface Plasmon Resonance Instruments with Improved Spectral Resolution Quantify a Broad Range of Antibody-Ligand Binding Kinetics. <i>Analytical Chemistry</i> , 2012, 84, 1941-1947.	3.2	96
43	Flanking Residues Are Central to DO11.10 T Cell Hybridoma Stimulation by Ovalbumin 323â€“339. <i>PLoS ONE</i> , 2012, 7, e47585.	1.1	3
44	Concentrated Dispersions of Equilibrium Protein Nanoclusters That Reversibly Dissociate into Active Monomers. <i>ACS Nano</i> , 2012, 6, 1357-1369.	7.3	104
45	Antibody nanoparticle dispersions formed with mixtures of crowding molecules retain activity and In Vivo bioavailability. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3763-3778.	1.6	13
46	Restriction enzyme-free construction of random gene mutagenesis libraries in <i>Escherichia coli</i> . <i>Analytical Biochemistry</i> , 2012, 421, 640-648.	1.1	14
47	Crystallization chaperone strategies for membrane proteins. <i>Methods</i> , 2011, 55, 293-302.	1.9	32
48	Antibodies Recognizing Protective Pertussis Toxin Epitopes Are Preferentially Elicited by Natural Infection versus Acellular Immunization. <i>Vaccine Journal</i> , 2011, 18, 954-962.	3.2	29
49	Conversion of scFv peptide-binding specificity for crystal chaperone development. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 419-428.	1.0	11
50	Forward engineering of synthetic bio-logical AND gates. <i>Biochemical Engineering Journal</i> , 2009, 47, 38-47.	1.8	100
51	Surface plasmon resonance for high-throughput ligand screening of membrane-bound proteins. <i>Biotechnology Journal</i> , 2009, 4, 1542-1558.	1.8	108
52	Characterization of a Key Neutralizing Epitope on Pertussis Toxin Recognized by Monoclonal Antibody 1B7. <i>Biochemistry</i> , 2009, 48, 11982-11993.	1.2	26
53	Crystal Structure of the Engineered Neutralizing Antibody M18 Complexed to Domain 4 of the Anthrax Protective Antigen. <i>Journal of Molecular Biology</i> , 2009, 387, 680-693.	2.0	33
54	Progress Towards Recombinant Anti-Infective Antibodies. <i>Recent Patents on Anti-infective Drug Discovery</i> , 2009, 4, 1-17.	0.5	22

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55	Modeling the structure of mAb 14B7 bound to the anthrax protective antigen. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 218-230.	1.5	32
56	Microarrays in infection and immunity. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 306-315.	2.8	17
57	Structural evidence for a germline-encoded T cell receptorâ€“major histocompatibility complex interaction 'codon'. <i>Nature Immunology</i> , 2007, 8, 975-983.	7.0	221
58	High-level bacterial secretion of single-chain $\hat{I}\hat{I}^2$ T-cell receptors. <i>Journal of Immunological Methods</i> , 2005, 306, 51-67.	0.6	43
59	Structure of an Autoimmune T Cell Receptor Complexed with Class II Peptide-MHC. <i>Immunity</i> , 2005, 22, 81-92.	6.6	146
60	In Vitro Scanning-Saturation Mutagenesis. , 2002, 182, 149-163.		8
61	Protection against anthrax toxin by recombinant antibody fragments correlates with antigen affinity. <i>Nature Biotechnology</i> , 2002, 20, 597-601.	9.4	260
62	A Novel All Helix Fold of the AP180 Amino-Terminal Domain for Phosphoinositide Binding and Clathrin Assembly in Synaptic Vesicle Endocytosis. <i>Cell</i> , 2001, 104, 433-440.	13.5	87
63	Antibody Engineering. <i>Annual Review of Biomedical Engineering</i> , 2000, 2, 339-376.	5.7	206
64	Rhizoremediation of Trichloroethylene by a Recombinant, Root-Colonizing <i>Pseudomonas fluorescens</i> Strain Expressing Toluene <i>ortho</i> -Monooxygenase Constitutively. <i>Applied and Environmental Microbiology</i> , 1998, 64, 112-118.	1.4	139
65	Immunotherapeutic Approaches To Prevent Cytomegalovirus-Mediated Disease. , 0, , 273-288.		0