Stefan Zielonka

List of Publications by Year in descending order

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39 papers	1,157 citations	430874 18 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	1011 citing authors

#	Article	IF	Citations
1	Camelid and shark single domain antibodies: structural features and therapeutic potential. Current Opinion in Structural Biology, 2017, 45, 10-16.	5.7	165
2	Structural insights and biomedical potential of IgNAR scaffolds from sharks. MAbs, 2015, 7, 15-25.	5.2	102
3	Therapeutic antibody engineering by high efficiency cell screening. FEBS Letters, 2014, 588, 278-287.	2.8	95
4	Shark Attack: High affinity binding proteins derived from shark vNAR domains by stepwise in vitro affinity maturation. Journal of Biotechnology, 2014, 191, 236-245.	3.8	74
5	Antibody display technologies: selecting the cream of the crop. Biological Chemistry, 2022, 403, 455-477.	2.5	71
6	Single-domain antibodies for biomedical applications. Immunopharmacology and Immunotoxicology, 2016, 38, 21-28.	2.4	64
7	A Chemoenzymatic Approach to Protein Immobilization onto Crystalline Cellulose Nanoscaffolds. Angewandte Chemie - International Edition, 2014, 53, 12618-12623.	13.8	48
8	Engineering bispecific antibodies with defined chain pairing. New Biotechnology, 2017, 39, 167-173.	4.4	43
9	Engineering IgG-Like Bispecific Antibodiesâ€”An Overview. Antibodies, 2018, 7, 28.	2.5	37
10	Semi-synthetic vNAR libraries screened against therapeutic antibodies primarily deliver anti-idiotypic binders. Scientific Reports, 2017, 7, 9676.	3.3	34
11	Affinity Maturation of B7-H6 Translates into Enhanced NK Cellâ€“Mediated Tumor Cell Lysis and Improved Proinflammatory Cytokine Release of Bispecific Immunoligands via NKp30 Engagement. Journal of Immunology, 2021, 206, 225-236.	0.8	32
12	Isolation of a pH-Sensitive IgNAR Variable Domain from a Yeast-Displayed, Histidine-Doped Master Library. Marine Biotechnology, 2016, 18, 161-167.	2.4	31
13	A novel one-step approach for the construction of yeast surface display Fab antibody libraries. Microbial Cell Factories, 2018, 17, 3.	4.0	31
14	Yeast Surface Display in Combination with Fluorescenceâ€activated Cell Sorting Enables the Rapid Isolation of Antibody Fragments Derived from Immunized Chickens. Biotechnology Journal, 2019, 14, 1800466.	3.5	30
15	A simplified procedure for antibody engineering by yeast surface display: Coupling display levels and target binding by ribosomal skipping. Biotechnology Journal, 2017, 12, 1600454.	3.5	27
16	Dual Function pH Responsive Bispecific Antibodies for Tumor Targeting and Antigen Depletion in Plasma. Frontiers in Immunology, 2019, 10, 1892.	4.8	26
17	Facile generation of antibody heavy and light chain diversities for yeast surface display by Golden Gate Cloning. Biological Chemistry, 2019, 400, 383-393.	2.5	24
18	Biophysical and biochemical characterization of a VHH-based IgG-like bi- and trispecific antibody platform. MAbs, 2020, 12, 1812210.	5.2	22

#	Article	IF	Citations
19	A One-Step Process for the Construction of Phage Display scFv and VHH Libraries. Molecular Biotechnology, 2020, 62, 228-239.	2.4	19
20	The Shark Strikes Twice: Hypervariable Loop 2 of Shark IgNAR Antibody Variable Domains and Its Potential to Function as an Autonomous Paratope. Marine Biotechnology, 2015, 17, 386-392.	2.4	17
21	Isolation of Antigen-Specific VHH Single-Domain Antibodies by Combining Animal Immunization with Yeast Surface Display. Methods in Molecular Biology, 2020, 2070, 173-189.	0.9	17
22	Rapid Generation of Chicken Immune Libraries for Yeast Surface Display. Methods in Molecular Biology, 2020, 2070, 289-302.	0.9	17
23	Beyond bispecificity: Controlled Fab arm exchange for the generation of antibodies with multiple specificities. MAbs, 2022, 14, 2018960.	5.2	17
24	Generation of Semi-Synthetic Shark IgNAR Single-Domain Antibody Libraries. Methods in Molecular Biology, 2018, 1701, 147-167.	0.9	15
25	A Streamlined Approach for the Construction of Large Yeast Surface Display Fab Antibody Libraries. Methods in Molecular Biology, 2018, 1827, 145-161.	0.9	13
26	Milking the Cow: Cattle-Derived Chimeric Ultralong CDR-H3 Antibodies and Their Engineered CDR-H3-Only Knobbody Counterparts Targeting Epidermal Growth Factor Receptor Elicit Potent NK Cell-Mediated Cytotoxicity. Frontiers in Immunology, 2021, 12, 742418.	4.8	11
27	Grabbing the Bull by Both Horns: Bovine Ultralong CDR-H3 Paratopes Enable Engineering of â€˜Almost Naturalâ€™ Common Light Chain Bispecific Antibodies Suitable For Effector Cell Redirection. Frontiers in Immunology, 2021, 12, 801368.	4.8	11
28	Isolation of pH-Sensitive Antibody Fragments by Fluorescence-Activated Cell Sorting and Yeast Surface Display. Methods in Molecular Biology, 2018, 1685, 311-331.	0.9	10
29	Selection of Antibodies with Tailored Properties by Application of High-Throughput Multiparameter Fluorescence-Activated Cell Sorting of Yeast-Displayed Immune Libraries. Molecular Biotechnology, 2018, 60, 727-735.	2.4	10
30	A Generic Procedure for the Isolation of pH- and Magnesium-Responsive Chicken scFvs for Downstream Purification of Human Antibodies. Frontiers in Bioengineering and Biotechnology, 2020, 8, 688.	4.1	10
31	Greatest Hitsâ€”Innovative Technologies for High Throughput Identification of Bispecific Antibodies. International Journal of Molecular Sciences, 2020, 21, 6551.	4.1	9
32	Streamlining the Transition From Yeast Surface Display of Antibody Fragment Immune Libraries to the Production as IgG Format in Mammalian Cells. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	9
33	Specific Targeting of Lymphoma Cells Using Semisynthetic Anti-Idiotype Shark Antibodies. Frontiers in Immunology, 2020, 11, 560244.	4.8	7
34	Construction of Histidine-Enriched Shark IgNAR Variable Domain Antibody Libraries for the Isolation of pH-Sensitive vNAR Fragments. Methods in Molecular Biology, 2018, 1827, 109-127.	0.9	3
35	Selection and Characterization of Anti-idiotypic Shark Antibody Domains. Methods in Molecular Biology, 2020, 2070, 191-209.	0.9	2
36	Antibody Display Systems. Learning Materials in Biosciences, 2021, , 65-96.	0.4	2

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37	Chemical Modification of the Yeast Cell Surface Allows the Switch Between Display and Soluble Secretion of Full-Length Antibodies. Methods in Molecular Biology, 2020, 2070, 335-349.	0.9	2
38	Shark attack: HaiantikÃ¶rper fÃ¼r Biomedizin und Biotechnologie. BioSpektrum, 2018, 24, 142-145.	0.0	0
39	Protein engineering & design: hitting new heights. Biological Chemistry, 2022, 403, 453-453.	2.5	0