Harald Kolmar

List of Publications by Year
in descending order

202	6,226	66343	106344
papers	citations	42 h-index	65 g-index

217	217	217	5851
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dimerisation of the Glycophorin A Transmembrane Segment in Membranes Probed with the ToxR Transcription Activator. Journal of Molecular Biology, 1996, 263, 525-530.	4.2	237
2	Decorating microbes: surface display of proteins on Escherichia coli. Trends in Biotechnology, 2011, 29, 79-86.	9.3	198
3	Camelid and shark single domain antibodies: structural features and therapeutic potential. Current Opinion in Structural Biology, 2017, 45, 10-16.	5.7	165
4	The vsr gene product of E. coli K-12 is a strand- and sequence-specific DNA mismatch endonuclease. Nature, 1991, 353, 776-778.	27.8	142
5	The DegP and DegQ periplasmic endoproteases of Escherichia coli: specificity for cleavage sites and substrate conformation. Journal of Bacteriology, 1996, 178, 5925-5929.	2.2	130
6	Bi-specific Aptamers Mediating Tumor Cell Lysis. Journal of Biological Chemistry, 2011, 286, 21896-21905.	3.4	124
7	The crystal structure of SdsA1, an alkylsulfatase from Pseudomonas aeruginosa, defines a third class of sulfatases. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7631-7636.	7.1	115
8	Ultra-high-throughput screening based on cell-surface display and fluorescence-activated cell sorting for the identification of novel biocatalysts. Current Opinion in Biotechnology, 2004, 15, 323-329.	6.6	114
9	â€œTriazole Bridgeâ€• Disulfideâ€Bond Replacement by Rutheniumâ€Catalyzed Formation of 1,5â€Disubstituted 1,2,3â€Triazoles. Angewandte Chemie - International Edition, 2011, 50, 5207-5211.	13.8	112
10	Biological diversity and therapeutic potential of natural and engineered cystine knot miniproteins. Current Opinion in Pharmacology, 2009, 9, 608-614.	3.5	108
11	Structural insights and biomedical potential of IgNAR scaffolds from sharks. MAbs, 2015, 7, 15-25.	5.2	102
12	Therapeutic antibody engineering by high efficiency cell screening. FEBS Letters, 2014, 588, 278-287.	2.8	95
13	Engineered Cystine Knot Miniproteins as Potent Inhibitors of Human Mast Cell Tryptase Î². Journal of Molecular Biology, 2010, 395, 167-175.	4.2	92
14	The cystine knot of a squash-type protease inhibitor as a structural scaffold for Escherichia coli cell surface display of conformationally constrained peptides. Protein Engineering, Design and Selection, 1999, 12, 797-806.	2.1	87
15	Alternative binding proteins: Biological activity and therapeutic potential of cystineâ€knot miniproteins. FEBS Journal, 2008, 275, 2684-2690.	4.7	87
16	Singleâ€Cell Highâ€Throughput Screening To Identify Enantioselective Hydrolytic Enzymes. Angewandte Chemie - International Edition, 2008, 47, 5085-5088.	13.8	81
17	The potential of cystine-knot microproteins as novel pharmacophoric scaffolds in oral peptide drug delivery. Journal of Drug Targeting, 2006, 14, 137-146.	4.4	79
18	A generic system for theEscherichia colicell-surface display of lipolytic enzymes. FEBS Letters, 2005, 579, 1177-1182.	2.8	76

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19	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
20	Display of Passenger Proteins on the Surface of Escherichia coli K-12 by the Enterohemorrhagic E. coli Intimin EaeA. Journal of Bacteriology, 2001, 183, 7273-7284.	2.2	71
21	Arranged Sevenfold: Structural Insights into the C-Terminal Oligomerization Domain of Human C4b-Binding Protein. Journal of Molecular Biology, 2013, 425, 1302-1317.	4.2	69
22	Inhibition of platelet aggregation by grafting RGD and KGD sequences on the structural scaffold of small disulfide-rich proteins. Platelets, 2006, 17, 153-157.	2.3	67
23	Knottin cyclization: impact on structure and dynamics. BMC Structural Biology, 2008, 8, 54.	2.3	66
24	Balancing Selectivity and Efficacy of Bispecific Epidermal Growth Factor Receptor (EGFR) Ã— c-MET Antibodies and Antibody-Drug Conjugates. Journal of Biological Chemistry, 2016, 291, 25106-25119.	3.4	66
25	Trypsin inhibition by macrocyclic and open-chain variants of the squash inhibitor MCoTI-II. Biological Chemistry, 2005, 386, 1301-6.	2.5	65
26	Crystal structure of the electron transfer complex rubredoxinâ€“rubredoxin reductase of Pseudomonas aeruginosa. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12276-12281.	7.1	65
27	A generic approach to engineer antibody pH-switches using combinatorial histidine scanning libraries and yeast display. MAbs, 2015, 7, 138-151.	5.2	64
28	Single-domain antibodies for biomedical applications. Immunopharmacology and Immunotoxicology, 2016, 38, 21-28.	2.4	64
29	Braces for the Peptide Backbone: Insights into Structureâ€“Activity Relationships of Protease Inhibitor Mimics with Locked Amide Conformations. Angewandte Chemie - International Edition, 2012, 51, 3708-3712.	13.8	62
30	Contribution of the intramolecular disulfide bridge to the folding stability of REIv, the variable domain of a human immunoglobulin Îº light chain. Folding & Design, 1996, 1, 431-440.	4.5	61
31	Sequence Requirements of the GPNG Î²-Turn of the Ecballium elaterium Trypsin Inhibitor II Explored by Combinatorial Library Screening. Journal of Biological Chemistry, 1999, 274, 21037-21043.	3.4	61
32	Beyond antibody engineering: directed evolution of alternative binding scaffolds and enzymes using yeast surface display. Microbial Cell Factories, 2018, 17, 32.	4.0	58
33	Grafting of thrombopoietin-mimetic peptides into cystine knot miniproteins yields high-affinity thrombopoietin antagonists and agonists. FEBS Journal, 2007, 274, 86-95.	4.7	57
34	Epitope mapping and affinity purification of monospecific antibodies by Escherichia coli cell surface display of gene-derived random peptide libraries. Journal of Immunological Methods, 2001, 257, 163-173.	1.4	56
35	Combinatorial Optimization of Cystine-Knot Peptides towards High-Affinity Inhibitors of Human Matriptase-1. PLoS ONE, 2013, 8, e76956.	2.5	55
36	Evaluation and improvement of the properties of the novel cystine-knot microprotein McoEeTI for oral administration. International Journal of Pharmaceutics, 2007, 332, 72-79.	5.2	52

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37	Towards click bioconjugations on cube-octameric silsesquioxane scaffolds. Organic and Biomolecular Chemistry, 2010, 8, 2212.	2.8	49
38	Locked by Design: A Conformationally Constrained Transglutaminase Tag Enables Efficient Siteâ€Specific Conjugation. Angewandte Chemie - International Edition, 2015, 54, 13420-13424.	13.8	49
39	Combinatorial tuning of peptidic drug candidates: high-affinity matriptase inhibitors through incremental structure-guided optimization. Organic and Biomolecular Chemistry, 2013, 11, 1848.	2.8	48
40	A Chemoenzymatic Approach to Protein Immobilization onto Crystalline Cellulose Nanoscaffolds. Angewandte Chemie - International Edition, 2014, 53, 12618-12623.	13.8	48
41	Ultrahigh-Throughput Screening to IdentifyE. coli Cells Expressing Functionally Active Enzymes on their Surface. ChemBioChem, 2007, 8, 943-949.	2.6	47
42	Bioconjugation on cube-octameric silsesquioxanes. Organic and Biomolecular Chemistry, 2013, 11, 2224.	2.8	44
43	Chemical Synthesis, Backbone Cyclization and Oxidative Folding of Cystine-knot Peptides â€" Promising Scaffolds for Applications in Drug Design. Molecules, 2012, 17, 12533-12552.	3.8	43
44	Engineering bispecific antibodies with defined chain pairing. New Biotechnology, 2017, 39, 167-173.	4.4	43
45	Potent inhibitors of human matriptaseâ€1 based on the scaffold of sunflower trypsin inhibitor. Journal of Peptide Science, 2014, 20, 415-420.	1.4	42
46	Natural and Engineered Cystine Knot Miniproteins for Diagnostic and Therapeutic Applications. Current Pharmaceutical Design, 2011, 17, 4329-4336.	1.9	41
47	In Vivo Enzyme Immobilization by Inclusion Body Display. Applied and Environmental Microbiology, 2010, 76, 5563-5569.	3.1	40
48	Synthesis and characterization of new generation open tubular silica capillaries for liquid chromatography. Journal of Chromatography A, 2012, 1265, 88-94.	3.7	40
49	Functional genomics of Pseudomonas aeruginosa to identify habitat-specific determinants of pathogenicity. International Journal of Medical Microbiology, 2007, 297, 615-623.	3.6	39
50	Structure ofEcballium elateriumtrypsin inhibitor II (EETI-II): a rigid molecular scaffold. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1255-1262.	2.5	38
51	Recent progress in transglutaminase-mediated assembly of antibody-drug conjugates. Analytical Biochemistry, 2020, 595, 113615.	2.4	38
52	Engineering IgG-Like Bispecific Antibodiesâ€"An Overview. Antibodies, 2018, 7, 28.	2.5	37
53	A fusion protein system for the recombinant production of short disulfide bond rich cystine knot peptides using barnase as a purification handle. Protein Expression and Purification, 2005, 39, 82-89.	1.3	36
54	Covalent Attachment of Enzymes to Paper Fibers for Paper-Based Analytical Devices. Frontiers in Chemistry, 2018, 6, 214.	3.6	35

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55	Host cell protein quantification by fourier transform mid infrared spectroscopy (FTâ€MIR). Biotechnology and Bioengineering, 2013, 110, 252-259.	3.3	34
56	Effective PHIP Labeling of Bioactive Peptides Boosts the Intensity of the NMR Signal. Angewandte Chemie - International Edition, 2014, 53, 12941-12945.	13.8	34
57	Semi-synthetic vNAR libraries screened against therapeutic antibodies primarily deliver anti-idiotypic binders. Scientific Reports, 2017, 7, 9676.	3.3	34
58	Generation of human bispecific common light chain antibodies by combining animal immunization and yeast display. Protein Engineering, Design and Selection, 2017, 30, 291-301.	2.1	33
59	Intimin-Mediated Export of Passenger Proteins Requires Maintenance of a Translocation-Competent Conformation. Journal of Bacteriology, 2005, 187, 522-533.	2.2	32
60	Headâ€toâ€Tail Cyclized Cystineâ€Knot Peptides by a Combined Recombinant and Chemical Route of Synthesis. ChemBioChem, 2008, 9, 33-37.	2.6	32
61	Cystineâ€knot peptides targeting cancerâ€relevant human cytotoxic T lymphocyteâ€associated antigen 4 (CTLAâ€4). Journal of Peptide Science, 2015, 21, 651-660.	1.4	32
62	At-line mid infrared spectroscopy for monitoring downstream processing unit operations. Process Biochemistry, 2015, 50, 997-1005.	3.7	32
63	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
64	Sunflower Trypsin Inhibitor 1 Derivatives as Molecular Scaffolds for the Development of Novel Peptidic Radiopharmaceuticals. Molecular Imaging and Biology, 2010, 12, 377-385.	2.6	31
65	Autotransporters with GDSL Passenger Domains: Molecular Physiology and Biotechnological Applications. ChemBioChem, 2011, 12, 1476-1485.	2.6	31
66	REAL-Select: Full-Length Antibody Display and Library Screening by Surface Capture on Yeast Cells. PLoS ONE, 2014, 9, e114887.	2.5	31
67	Spontaneous Isopeptide Bond Formation as a Powerful Tool for Engineering Site-Specific Antibody-Drug Conjugates. Scientific Reports, 2016, 6, 39291.	3.3	31
68	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
69	A novel one-step approach for the construction of yeast surface display Fab antibody libraries. Microbial Cell Factories, 2018, 17, 3.	4.0	31
70	Engineering of ultraID, a compact and hyperactive enzyme for proximity-dependent biotinylation in living cells. Communications Biology, 2022, 5, .	4.4	31
71	Functional Cell-Surface Display of a Lipase-Specific Chaperone. ChemBioChem, 2007, 8, 55-60.	2.6	30
72	Ultrafast Singleâ€Scan 2Dâ€…NMR Spectroscopic Detection of a PHIPâ€Hyperpolarized Protease Inhibitor. Chemistry - A European Journal, 2019, 25, 4025-4030.	3.3	30

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73	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
74	PHIP-label: parahydrogen-induced polarization in propargylglycine-containing synthetic oligopeptides. Chemical Communications, 2013, 49, 7839.	4.1	29
75	Engineered cystine-knot miniproteins for diagnostic applications. Expert Review of Molecular Diagnostics, 2010, 10, 361-368.	3.1	28
76	Directed Evolution of a Bondâ€Forming Enzyme: Ultrahighâ€Throughput Screening of Microbial Transglutaminase Using Yeast Surface Display. Chemistry - A European Journal, 2018, 24, 15195-15200.	3.3	28
77	Generation of Potent Anti-HER1/2 Immunotoxins by Protein Ligation Using Split Inteins. ACS Chemical Biology, 2018, 13, 2058-2066.	3.4	28
78	A Bioorthogonal Click Chemistry Toolbox for Targeted Synthesis of Branched and Wellâ€Defined Proteinâ€“Protein Conjugates. Angewandte Chemie - International Edition, 2020, 59, 12885-12893.	13.8	28
79	Sustainable Peptide Synthesis Enabled by a Transient Protecting Group. Angewandte Chemie - International Edition, 2020, 59, 12984-12990.	13.8	28
80	Self-Assembled Hybrid Aptamer-Fc Conjugates for Targeted Delivery: A Modular Chemoenzymatic Approach. ACS Chemical Biology, 2015, 10, 2158-2165.	3.4	27
81	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
82	Microbial transglutaminase for biotechnological and biomedical engineering. Biological Chemistry, 2019, 400, 257-274.	2.5	27
83	FACS-Based Functional Protein Screening via Microfluidic Co-encapsulation of Yeast Secretor and Mammalian Reporter Cells. Scientific Reports, 2020, 10, 10182.	3.3	27
84	Oxidative Folding of Peptides with Cystineâ€Knot Architectures: Kinetic Studies and Optimization of Folding Conditions. ChemBioChem, 2013, 14, 137-146.	2.6	26
85	Preparation and kinetic performance assessment of thick film 10â€“20Î¼m open tubular silica capillaries in normal phase high pressure liquid chromatography. Journal of Chromatography A, 2013, 1315, 127-134.	3.7	26
86	Engineering a Constrained Peptidic Scaffold towards Potent and Selective Furin Inhibitors. ChemBioChem, 2015, 16, 2441-2444.	2.6	26
87	Dual Function pH Responsive Bispecific Antibodies for Tumor Targeting and Antigen Depletion in Plasma. Frontiers in Immunology, 2019, 10, 1892.	4.8	26
88	Between two worlds: a comparative study on in vitro and in silico inhibition of trypsin and matriptase by redox-stable SFTI-1 variants at near physiological pH. Organic and Biomolecular Chemistry, 2012, 10, 7753.	2.8	25
89	Performance evaluation of thick film open tubular silica capillary by reversed phase liquid chromatography. Journal of Chromatography A, 2013, 1283, 110-115.	3.7	25
90	An Apoptosisâ€Inducing Peptidic Heptad That Efficiently Clusters Death Receptorâ€…5. Angewandte Chemie - International Edition, 2016, 55, 5085-5089.	13.8	25

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91	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
92	From cell line development to the formulated drug product: The art of manufacturing therapeutic monoclonal antibodies. International Journal of Pharmaceutics, 2021, 594, 120164.	5.2	24
93	From pico to nano: biofunctionalization of cube-octameric silsesquioxanes by peptides and miniproteins. Organic and Biomolecular Chemistry, 2012, 10, 6287.	2.8	23
94	Feasibility study of semiâ€selective protein precipitation with saltâ€tolerant copolymers for industrial purification of therapeutic antibodies. Biotechnology and Bioengineering, 2013, 110, 2915-2927.	3.3	23
95	Intein mediated high throughput screening for bispecific antibodies. MAbs, 2020, 12, 1731938.	5.2	23
96	Functional paper-based materials for diagnostics. ChemTexts, 2021, 7, 14.	1.9	23
97	Design of a Trispecific Checkpoint Inhibitor and Natural Killer Cell Engager Based on a 2 + 1 Common Light Chain Antibody Architecture. Frontiers in Immunology, 2021, 12, 669496.	4.8	23
98	Fmoc-Assisted Synthesis of a 29-Residue Cystine-Knot Trypsin Inhibitor Containing a Guaninyl Amino Acid at the P1-Position. European Journal of Organic Chemistry, 2004, 2004, 4931-4935.	2.4	22
99	DNA Libraries for the Construction of Phage Libraries: Statistical and Structural Requirements and Synthetic Methods. Molecules, 2011, 16, 1625-1641.	3.8	22
100	A tightly regulated and adjustable CRISPR-dCas9 based AND gate in yeast. Nucleic Acids Research, 2019, 47, 509-520.	14.5	22
101	ToxR co-operative interactions are not modulated by environmental conditions or periplasmic domain conformation. Molecular Microbiology, 1999, 31, 305-317.	2.5	20
102	Enhancing the Pharmacokinetics and Antitumor Activity of an Î±-Amanitin-Based Small-Molecule Drug Conjugate via Conjugation with an Fc Domain. Journal of Medicinal Chemistry, 2021, 64, 4117-4129.	6.4	20
103	Characterisation of the barrier caused by luminally secreted gastro-intestinal proteolytic enzymes for two novel cystine-knot microproteins. Amino Acids, 2008, 35, 195-200.	2.7	19
104	Application of copper(i) catalyzed azideâ€“alkyne [3+2] cycloaddition to the synthesis of template-assembled multivalent peptide conjugates. Organic and Biomolecular Chemistry, 2009, 7, 4177.	2.8	19
105	Dextramabs: A Novel Format of Antibodyâ€Drug Conjugates Featuring a Multivalent Polysaccharide Scaffold. ChemistryOpen, 2019, 8, 354-357.	1.9	19
106	Structure of the Dispase Autolysis-inducing Protein from Streptomyces mobaraensis and Glutamine Cross-linking Sites for Transglutaminase. Journal of Biological Chemistry, 2016, 291, 20417-20426.	3.4	18
107	Efficient Siteâ€Specific Antibodyâ€“Drug Conjugation by Engineering a Natureâ€Derived Recognition Tag for Microbial Transglutaminase. ChemBioChem, 2019, 20, 2411-2419.	2.6	18
108	Immunoglobulin Mutant Library Genetically Screened for Folding Stability Exploiting Bacterial Signal Transduction. Journal of Molecular Biology, 1995, 251, 471-476.	4.2	17

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109	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
110	Expeditious Generation of Biparatopic Common Light Chain Antibodies via Chicken Immunization and Yeast Display Screening. Frontiers in Immunology, 2020, 11, 606878.	4.8	17
111	Rapid Generation of Chicken Immune Libraries for Yeast Surface Display. Methods in Molecular Biology, 2020, 2070, 289-302.	0.9	17
112	Beyond bispecificity: Controlled Fab arm exchange for the generation of antibodies with multiple specificities. MAbs, 2022, 14, 2018960.	5.2	17
113	Alternative binding proteins get mature: Rivalling antibodies. FEBS Journal, 2008, 275, 2667-2667.	4.7	16
114	Aptamers Binding to c-Met Inhibiting Tumor Cell Migration. PLoS ONE, 2015, 10, e0142412.	2.5	16
115	Nanoscale Biodegradable Organicâ€“Inorganic Hybrids for Efficient Cell Penetration and Drug Delivery. Angewandte Chemie - International Edition, 2016, 55, 14842-14846.	13.8	16
116	TRAILâ€Inspired Multivalent Dextran Conjugates Efficiently Induce Apoptosis upon DR5 Receptor Clustering. ChemBioChem, 2019, 20, 3006-3012.	2.6	16
117	Engineering therapeutic antibodies for patient safety: tackling the immunogenicity problem. Protein Engineering, Design and Selection, 2020, 33, .	2.1	16
118	Isolation of Common Light Chain Antibodies from Immunized Chickens Using Yeast Biopanning and Fluorescenceâ€Activated Cell Sorting. Biotechnology Journal, 2021, 16, e2000240.	3.5	16
119	General mutagenesis/gene expression procedure for the construction of variant immunoglobulin domains in Escherichia coli. Journal of Molecular Biology, 1992, 228, 359-365.	4.2	15
120	Barnase Fusion as a Tool to Determine the Crystal Structure of the Small Disulfide-rich Protein McoEeTI. Journal of Molecular Biology, 2006, 356, 1-8.	4.2	15
121	Cube-octameric silsesquioxane-mediated cargo peptide delivery into living cancer cells. Organic and Biomolecular Chemistry, 2013, 11, 2258-2265.	2.8	15
122	Midâ€infrared spectroscopyâ€based antibody aggregate quantification in cell culture fluids. Biotechnology Journal, 2013, 8, 912-917.	3.5	15
123	Generation of Semi-Synthetic Shark IgNAR Single-Domain Antibody Libraries. Methods in Molecular Biology, 2018, 1701, 147-167.	0.9	15
124	Impact of Acetylated and Non-Acetylated Fucose Analogues on IgG Glycosylation. Antibodies, 2019, 8, 9.	2.5	14
125	Effektive Markierung von bioaktiven Peptiden mit PHIPâ€Markern zur Steigerung der Empfindlichkeit von NMRâ€Signalen. Angewandte Chemie, 2014, 126, 13155-13159.	2.0	13
126	Combination of inverse electron-demand Dielsâ€“Alder reaction with highly efficient oxime ligation expands the toolbox of site-selective peptide conjugations. Chemical Communications, 2015, 51, 11130-11133.	4.1	13

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127	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
128	Lightâ€Controlled Chemoenzymatic Immobilization of Proteins towards Engineering of Bioactive Papers. Chemistry - A European Journal, 2019, 25, 1746-1751.	3.3	13
129	Effect of Conjugation Site and Technique on the Stability and Pharmacokinetics of Antibody-Drug Conjugates. Journal of Pharmaceutical Sciences, 2021, 110, 3776-3785.	3.3	13
130	Azobenzene switch with a long-lived cis-state to photocontrol the enzyme activity of a histone deacetylase-like amidohydrolase. Biological Chemistry, 2014, 395, 401-412.	2.5	12
131	Humanization of Chickenâ€Derived scFv Using Yeast Surface Display and NGS Data Mining. Biotechnology Journal, 2021, 16, e2000231.	3.5	12
132	Carbohydrate binding module-fused antibodies improve the performance of cellulose-based lateral flow immunoassays. Scientific Reports, 2021, 11, 7880.	3.3	12
133	PROLinkâ€"Single Step Circularization and Purification Procedure for the Generation of an Improved Variant of Human Growth Hormone. Bioconjugate Chemistry, 2016, 27, 1341-1347.	3.6	11
134	Structure of a glutamine donor mimicking inhibitory peptide shaped by the catalytic cleft of microbial transglutaminase. FEBS Journal, 2018, 285, 4684-4694.	4.7	11
135	Treating Bladder Cancer: Engineering of Current and Next Generation Antibody-, Fusion Protein-, mRNA-, Cell- and Viral-Based Therapeutics. Frontiers in Oncology, 2021, 11, 672262.	2.8	11
136	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
137	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
138	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
139	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
140	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
141	A Bioorthogonal Click Chemistry Toolbox for Targeted Synthesis of Branched and Wellâ€Defined Proteinâ€"Protein Conjugates. Angewandte Chemie, 2020, 132, 12985-12993.	2.0	10
142	Generation and Biological Evaluation of Fc Antigen Binding Fragment-Drug Conjugates as a Novel Antibody-Based Format for Targeted Drug Delivery. Bioconjugate Chemistry, 2021, 32, 1699-1710.	3.6	10
143	Native llama Nanobody Library Panning Performed by Phage and Yeast Display Provides Binders Suitable for C-Reactive Protein Detection. Biosensors, 2021, 11, 496.	4.7	10
144	Matrix effects during monitoring of antibody and host cell proteins using attenuated total reflection spectroscopy. Biotechnology Progress, 2013, 29, 265-274.	2.6	9

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145	Site-Specific Antibodyâ€“Drug Conjugation Using Microbial Transglutaminase. Methods in Molecular Biology, 2019, 2012, 135-149.	0.9	9
146	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
147	Bacteria Displaying Interleukin-4 Mutants Stimulate Mammalian Cells and Reflect the Biological Activities of Variant Soluble Cytokines. ChemBioChem, 2004, 5, 804-810.	2.6	7
148	Protein Production in Yarrowia lipolytica Via Fusion to the Secreted Lipase Lip2p. Molecular Biotechnology, 2014, 56, 79-90.	2.4	7
149	Coupled reactions on bioparticles: Stereoselective reduction with cofactor regeneration on PhaC inclusion bodies. Biotechnology Journal, 2016, 11, 890-898.	3.5	7
150	Destructive twisting of neutral metalloproteases: the catalysis mechanism of the Dispase autolysisâ€inducing protein fromStreptomyces mobaraensisDSM40487. FEBS Journal, 2018, 285, 4246-4264.	4.7	7
151	Specific Targeting of Lymphoma Cells Using Semisynthetic Anti-Idiotype Shark Antibodies. Frontiers in Immunology, 2020, 11, 560244.	4.8	7
152	Toward Fabrication of Bioactive Papers: Covalent Immobilization of Peptides and Proteins. Biomacromolecules, 2021, 22, 2954-2962.	5.4	7
153	Protease-Activation of Fc-Masked Therapeutic Antibodies to Alleviate Off-Tumor Cytotoxicity. Frontiers in Immunology, 2021, 12, 715719.	4.8	7
154	Use of 5â€Thioâ€Lâ€Fucose to modulate binding affinity of therapeutic proteins. Biotechnology and Bioengineering, 2021, 118, 1818-1831.	3.3	6
155	Recombinant Antibody Production Using a Dual-Promoter Single Plasmid System. Antibodies, 2021, 10, 18.	2.5	6
156	Polyelectrolyteâ€“protein interaction at low ionic strength: required chain flexibility depending on protein average charge. Colloid and Polymer Science, 2013, 291, 1759-1769.	2.1	5
157	Comparison of Membrane Depth Determination Techniques for Active Ingredient Skin Penetration Studies Using Microdialysis. Skin Pharmacology and Physiology, 2021, 34, 203-213.	2.5	5
158	Multivalent dextran hybrids for efficient cytosolic delivery of biomolecular cargoes. Journal of Peptide Science, 2021, 27, e3298.	1.4	5
159	Site-Specific Conjugation of Thiol-Reactive Cytotoxic Agents to Nonnative Cysteines of Engineered Monoclonal Antibodies. Methods in Molecular Biology, 2019, 2033, 1-14.	0.9	5
160	Fragmentation Follows Structure: Top-Down Mass Spectrometry Elucidates the Topology of Engineered Cystine-Knot Miniproteins. PLoS ONE, 2014, 9, e108626.	2.5	5
161	A Generic Strategy to Generate Bifunctional Two-in-One Antibodies by Chicken Immunization. Frontiers in Immunology, 2022, 13, 888838.	4.8	5
162	Phasduction â€”a simplified protocol for oligonucleotide-directed mutagenesis by the gapped duplex DNA method. Nucleic Acids Research, 1989, 17, 5862-5862.	14.5	4

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163	Structural characterization ofSpinacia oleraceatrypsin inhibitor III (SOTI-III). Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 114-120.	2.5	4
164	A general strategy for antibody library screening via conversion of transient target binding into permanent reporter deposition. Protein Engineering, Design and Selection, 2014, 27, 41-47.	2.1	4
165	Solvent-Containing Closure Material Can Be Used to Prevent Follicular Penetration of Caffeine and Fluorescein Sodium Salt on Porcine Ear Skin. Skin Pharmacology and Physiology, 2020, 33, 117-126.	2.5	4
166	A sensitive method for rapid detection of alkyl halides and dehalogenase activity using a multistep enzyme assay. AMB Express, 2012, 2, 51.	3.0	3
167	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
168	Simplifying the Detection of Surface Presentation Levels in Yeast Surface Display by Intracellular tGFP Expression. Methods in Molecular Biology, 2020, 2070, 211-222.	0.9	3
169	Glutamine-walking: Creating reactive substrates for transglutaminase-mediated protein labeling. Methods in Enzymology, 2020, 644, 121-148.	1.0	3
170	Generation of a host cell line containing a <scp>MAR</scp>â€rich landing pad for siteâ€specific integration and expression of transgenes. Biotechnology Progress, 2022, 38, e3254.	2.6	3
171	FACS Screening of Combinatorial Peptide and Protein Libraries Displayed on the Surface of Escherichia coli Cells. , 2005, , 31-45.		2
172	Customization of copolymers to optimize selectivity and yield in polymerâ€driven antibody purification processes. Biotechnology Progress, 2013, 29, 1484-1493.	2.6	2
173	Required polymer lengths per precipitated protein molecule in protein-polymer interaction. Journal of Polymer Research, 2014, 21, 1.	2.4	2
174	Ein Apoptoseâ€induzierendes Heptamer, das effizient den Todesrezeptorâ€…5 bÃ¼ndelt. Angewandte Chemie, 2016, 128, 5169-5173.	2.0	2
175	Highlight issue: protein design. Biological Chemistry, 2017, 398, 1-2.	2.5	2
176	Tailoring Activity and Selectivity of Microbial Transglutaminase. Methods in Molecular Biology, 2019, 2012, 151-169.	0.9	2
177	SpyLigase-Catalyzed Modification of Antibodies. Methods in Molecular Biology, 2019, 2012, 171-192.	0.9	2
178	Biochemical study of sortase E2 fromStreptomycesÂmobaraensisand determination of transglutaminase crossâ€linking sites. FEBS Letters, 2019, 593, 1944-1956.	2.8	2
179	The metal-binding properties of the long chaplin from Streptomyces mobaraensis: A bioinformatic and biochemical approach. Journal of Inorganic Biochemistry, 2020, 202, 110878.	3.5	2
180	Sustainable Peptide Synthesis Enabled by a Transient Protecting Group. Angewandte Chemie, 2020, 132, 13084-13090.	2.0	2

#	Article	IF	Citations
181	Review: High temperature short time treatment of cell culture media and feed solutions to mitigate adventitious viral contamination in the biopharmaceutical industry. Biotechnology Progress, 2021, 37, e3117.	2.6	2
182	Characterization of soy protein hydrolysates and influence of its iron content on monoclonal antibody production by a murine hybridoma cell line. Biotechnology Progress, 2021, 37, e3147.	2.6	2
183	Synthetic Integrin-Targeting Dextran-Fc Hybrids Efficiently Inhibit Tumor Proliferation In Vitro. Frontiers in Chemistry, 2021, 9, 693097.	3.6	2
184	Selection and Characterization of Anti-idiotypic Shark Antibody Domains. Methods in Molecular Biology, 2020, 2070, 191-209.	0.9	2
185	Microbodiesâ„¢. Methods in Molecular Biology, 2009, 535, 361-372.	0.9	2
186	Humanization of Chicken-Derived Antibodies by Yeast Surface Display. Methods in Molecular Biology, 2022, 2491, 335-360.	0.9	2
187	S-Sulfocysteine â€“ Investigation of cellular uptake in CHO cells. Journal of Biotechnology, 2021, 335, 27-38.	3.8	1
188	Dissecting capture and twisting of aureolysin and pseudolysin: functional amino acids of the Dispase autolysis-inducing protein. Biochemical Journal, 2020, 477, 2595-2606.	3.7	1
189	Methoxy-Monobenzoylmethane Protects Skin from UV-Induced Damages in a Randomized, Placebo Controlled, Double-Blinded Human In Vivo Study and Prevents Signs of Inflammation While Improving the Skin Barrier. Dermatology and Therapy, 2022, 12, 435-449.	3.0	1
190	Relation Between Scaffold Size and Membrane Bound Enzyme Caused Degradation of Two Novel Cystine Knot Microproteins. Letters in Drug Design and Discovery, 2007, 4, 33-36.	0.7	0
191	DegP Protease. , 2013, , 2567-2571.		0
192	Feasibility of polyelectrolyte-driven Fab fragment separation. Biotechnology Journal, 2014, 9, 698-701.	3.5	0
193	Bacterial Secretion Systems for Use in Biotechnology: Autotransporter-Based Cell Surface Display and Ultrahigh-Throughput Screening of Large Protein Libraries. Springer Protocols, 2015, , 87-103.	0.3	0
194	Nanoskalige, biologisch abbaubare organischâ€anorganische Hybride fÃ¼r effiziente Zellaufnahme und Wirkstofftransport. Angewandte Chemie, 2016, 128, 15063-15068.	2.0	0
195	Shark attack: HaiantikÃ¶rper fÃ¼r Biomedizin und Biotechnologie. BioSpektrum, 2018, 24, 142-145.	0.0	0
196	Protein engineering comes of age. Biological Chemistry, 2019, 400, 255-256.	2.5	0
197	Inside Front Cover Image, Volume 118, Number 5, May 2021. Biotechnology and Bioengineering, 2021, 118, ii.	3.3	0
198	EGFR binding Fc domain-drug conjugates: stable and highly potent cytotoxic molecules mediate selective cell killing. Biological Chemistry, 2021, .	2.5	0

#	Article	IF	Citations
199	Enzyme Engineering by Microbial Cell Surface Display. , 2003, , .		0
200	Isolation of Tailor-Made Antibody Fragments from Yeast-Displayed B-Cell Receptor Repertoires by Multiparameter Fluorescence-Activated Cell Sorting. Methods in Molecular Biology, 2020, 2070, 249-266.	0.9	0
201	Isolation of Anti-Hapten Antibodies by Fluorescence-Activated Cell Sorting of Yeast-Displayed B-Cell Receptor Gene Repertoires. Methods in Molecular Biology, 2020, 2070, 267-287.	0.9	0
202	Antibody Library Screening Using Yeast Biopanning and Fluorescence-Activated Cell Sorting. Methods in Molecular Biology, 2022, 2491, 177-193.	0.9	0