## Per-Ãke Nygren

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9199146/publications.pdf

Version: 2024-02-01

76326 69250 6,389 109 40 77 citations h-index g-index papers 111 111 111 5428 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Binding proteins selected from combinatorial libraries of an $\hat{l}_{\pm}$ -helical bacterial receptor domain. Nature Biotechnology, 1997, 15, 772-777.	17.5	573
2	Affinity Fusion Strategies for Detection, Purification, and Immobilization of Recombinant Proteins. Protein Expression and Purification, 1997, 11, 1-16.	1.3	302
3	Consequences of Membrane Protein Overexpression in Escherichia coli. Molecular and Cellular Proteomics, 2007, 6, 1527-1550.	3.8	302
4	Affibody Molecules in Biotechnological and Medical Applications. Trends in Biotechnology, 2017, 35, 691-712.	9.3	259
5	Display of proteins on bacteria. Journal of Biotechnology, 2002, 96, 129-154.	3.8	247
6	ProteomeBinders: planning a European resource of affinity reagents for analysis of the human proteome. Nature Methods, 2007, 4, 13-17.	19.0	231
7	Alternative binding proteins: Affibody binding proteins developed from a small threeâ€helix bundle scaffold. FEBS Journal, 2008, 275, 2668-2676.	4.7	229
8	A combinatorial library of an $\hat{l}_{\pm}$ -helical bacterial receptor domain. Protein Engineering, Design and Selection, 1995, 8, 601-608.	2.1	226
9	Engineering of a femtomolar affinity binding protein to human serum albumin. Protein Engineering, Design and Selection, 2008, 21, 515-527.	2.1	196
10	Binding proteins from alternative scaffolds. Journal of Immunological Methods, 2004, 290, 3-28.	1.4	178
11	Engineering proteins to facilitate bioprocessing. Trends in Biotechnology, 1994, 12, 184-188.	9.3	173
12	Scaffolds for engineering novel binding sites in proteins. Current Opinion in Structural Biology, 1997, 7, 463-469.	5.7	156
13	Analysis and use of the serum albumin binding domains of streptococcal protein G. Journal of Molecular Recognition, 1988, 1, 69-74.	2.1	154
14	Design and production of recombinant subunit vaccines. Biotechnology and Applied Biochemistry, 2000, 32, 95.	3.1	131
15	Genetic design for facilitated production and recovery of recombinant proteins in Escherichia coli. Biotechnology and Applied Biochemistry, 2002, 35, 91.	3.1	103
16	An affibody in complex with a target protein: Structure and coupled folding. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3185-3190.	7.1	101
17	Recombinant human factor VIII-specific affinity ligands selected from phage-displayed combinatorial libraries of protein A. FEBS Journal, 2001, 268, 4269-4277.	0.2	95
18	Analysis of Oligonucleotide Probe Affinities Using Surface Plasmon Resonance: A Means for Mutational Scanning. Analytical Biochemistry, 1997, 246, 34-44.	2.4	89

#	Article	IF	CITATIONS
19	Structure, Specificity, and Mode of Interaction for Bacterial Albumin-binding Modules. Journal of Biological Chemistry, 2002, 277, 8114-8120.	3.4	83
20	A dual expression system for the generation, analysis and purification of antibodies to a repeated sequence of the Plasmodium falciparum antigen Pf155/RESA. Journal of Immunological Methods, 1989, 124, 43-52.	1.4	81
21	An in vitro selected binding protein (affibody) shows conformation-dependent recognition of the respiratory syncytial virus (RSV) G protein. Immunotechnology: an International Journal of Immunological Engineering, 1999, 4, 237-252.	2.4	80
22	Structural basis for recognition by an in vitro evolved affibody. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3191-3196.	7.1	78
23	Pneumolysin binds to the mannose receptor C type 1 (MRC-1) leading to anti-inflammatory responses and enhanced pneumococcal survival. Nature Microbiology, 2019, 4, 62-70.	13.3	77
24	Human immunoglobulin A (IgA)-specific ligands from combinatorial engineering of protein A. FEBS Journal, 2002, 269, 2647-2655.	0.2	76
25	Ligands selected from combinatorial libraries of protein A for use in affinity capture of apolipoprotein A-1M and Taq DNA polymerase. Journal of Biotechnology, 2000, 80, 45-54.	3.8	74
26	Anti-idiotypic protein domains selected from protein A-based affibody libraries. Proteins: Structure, Function and Bioinformatics, 2002, 48, 454-462.	2.6	71
27	All individual domains of staphylococcal protein A show Fab binding. FEMS Immunology and Medical Microbiology, 1998, 20, 69-78.	2.7	69
28	The serum albumin-binding region of streptococcal protein G: a bacterial fusion partner with carrier-related properties. Journal of Immunological Methods, 1997, 201, 115-123.	1.4	61
29	The serum albumin-binding domain of streptococcal protein G is a three-helical bundle: a heteronuclear NMR study. FEBS Letters, 1996, 378, 190-194.	2.8	60
30	Affibody protein capture microarrays: Synthesis and evaluation of random and directed immobilization of affibody molecules. Analytical Biochemistry, 2005, 341, 334-343.	2.4	58
31	Multiple affinity domains for the detection, purification and immobilization of recombinant proteins. , 1996, 9, 585-594.		57
32	Affibody Molecules in Protein Capture Microarrays:  Evaluation of Multidomain Ligands and Different Detection Formats. Journal of Proteome Research, 2007, 6, 171-179.	3.7	56
33	Recombinant Spider Silk Genetically Functionalized with Affinity Domains. Biomacromolecules, 2014, 15, 1696-1706.	5.4	56
34	Engineering of Fc1 and Fc3 from human immunoglobulin G to analyse subclass specificity for staphylococcal protein A. Journal of Immunological Methods, 1997, 201, 25-34.	1.4	54
35	Minimum information about a protein affinity reagent (MIAPAR). Nature Biotechnology, 2010, 28, 650-653.	17.5	50
36	Competitive Elution of Protein A Fusion Proteins Allows Specific Recovery Under Mild Conditions. FEBS Journal, 1994, 224, 103-108.	0.2	48

#	Article	IF	CITATIONS
37	Hydrophobicity engineering to facilitate surface display of heterologous gene products on Staphylococcus xylosus. Journal of Biotechnology, 1995, 42, 207-219.	3.8	47
38	Construction and characterization of affibody-Fc chimeras produced in Escherichia coli. Journal of Immunological Methods, 2002, 261, 199-211.	1.4	47
39	Species-dependent binding of serum albumins to the streptococcal receptor protein G. FEBS Journal, 1990, 193, 143-148.	0.2	44
40	Detection of mutations in PCR products from clinical samples by surface plasmon resonance., 1997, 10, 7-17.		44
41	Inhibition of the CD28-CD80 co-stimulation signal by a CD28-binding affibody ligand developed by combinatorial protein engineering. Protein Engineering, Design and Selection, 2003, 16, 691-697.	2.1	44
42	Capture of Single-Stranded DNA Assisted by Oligonucleotide Modules. Analytical Biochemistry, 1998, 255, 195-203.	2.4	43
43	Display of active subtilisin 309 on phage: analysis of parameters influencing the selection of subtilisin variants with changed substrate specificity from libraries using phosphonylating inhibitors 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 296, 87-102.	4.2	43
44	A novel affinity gene fusion system allowing protein A-based recovery of non-immunoglobulin gene products. Journal of Biotechnology, 2002, 99, 41-50.	3.8	40
45	Inclusion of a non-immunoglobulin binding protein in two-site ELISA for quantification of human serum proteins without interference by heterophilic serum antibodies. Journal of Immunological Methods, 2003, 283, 225-234.	1.4	40
46	Progress and Future Directions with Peptide-Drug Conjugates for Targeted Cancer Therapy. Molecules, 2021, 26, 6042.	3.8	40
47	Successive crystal structure snapshots suggest the basis for MHC class I peptide loading and editing by tapasin. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5055-5060.	7.1	39
48	Charge engineering of a protein domain to allow efficient ion-exchange recovery. Protein Engineering, Design and Selection, 2000, 13, 703-709.	2.1	38
49	Dual Labeling of a Binding Protein Allows for Specific Fluorescence Detection of Native Protein. Analytical Biochemistry, 2001, 295, 22-30.	2.4	38
50	Microbead display of proteins by cell-free expression of anchored DNA. Journal of Biotechnology, 2003, 106, 1-13.	3.8	37
51	Affibody- $\hat{l}^2$ -galactosidase immunoconjugates produced as soluble fusion proteins in the Escherichia coli cytosol. Journal of Immunological Methods, 2003, 281, 149-160.	1.4	36
52	Direct and competitive kinetic analysis of the interaction between human IgG1 and a one domain analogue of protein A. Journal of Immunological Methods, 1995, 183, 43-49.	1.4	32
53	Genetic engineering of protein-peptide fusions for control of protein partitioning in thermoseparating aqueous two-phase systems., 1999, 62, 135-144.		32
54	In vitro selection of enzymatically active lipase variants from phage libraries using a mechanism-based inhibitor. Gene, 2001, 272, 267-274.	2.2	32

#	Article	IF	CITATIONS
55	Affinity recovery of eight HER2-binding affibody variants using an anti-idiotypic affibody molecule as capture ligand. Protein Expression and Purification, 2011, 76, 127-135.	1.3	32
56	A general strategy for polymerization, assembly and expression of epitope-carrying peptides applied to the Plasmodium falciparum antigen Pf155/RESA. Gene, 1990, 89, 187-193.	2.2	31
57	Engineered bacterial receptors in immunology. Current Opinion in Immunology, 1993, 5, 272-277.	5.5	29
58	Detection of Antigens Using a Protein–DNA Chimera Developed by Enzymatic Covalent Bonding with phiX Gene A*. Analytical Chemistry, 2012, 84, 5040-5046.	6.5	27
59	The BR domain of PsrP interacts with extracellular DNA to promote bacterial aggregation; structural insights into pneumococcal biofilm formation. Scientific Reports, 2016, 6, 32371.	3.3	27
60	Integrated strategy for selective expanded bed ion-exchange adsorption and site-specific protein processing using gene fusion technology. Journal of Biotechnology, 2002, 96, 93-102.	3.8	26
61	Tailor-Making a Protein A-Derived Domain for Efficient Site-Specific Photocoupling to Fc of Mouse IgG1. PLoS ONE, 2013, 8, e56597.	2.5	26
62	Labeling of human C-peptide by conjugation with N-succinimidyl-4-[18F] fluor obenzoate. Journal of Labelled Compounds and Radiopharmaceuticals, 2001, 44, 509-519.	1.0	23
63	Biophysical characterization of ZSPA-1-A phage-display selected binder to protein A. Protein Science, 2004, 13, 2078-2088.	7.6	23
64	Strategy for highly selective ion-exchange capture using a charge-polarizing fusion partner. Journal of Chromatography A, 2002, 942, 157-166.	3.7	22
65	Selection of TNF- $\hat{l}_{\pm}$ binding affibody molecules using a $\hat{l}^2$ -lactamase protein fragment complementation assay. New Biotechnology, 2009, 26, 251-259.	4.4	22
66	Proline substitution independently enhances <scp>H</scp> â€2 <scp>D</scp> <sup>b</sup> complex stabilization and <scp>TCR</scp> recognition of melanomaâ€associated peptides. European Journal of Immunology, 2013, 43, 3051-3060.	2.9	22
67	Ribosome Display Selection of a Murine IgG1 Fab Binding Affibody Molecule Allowing Species Selective Recovery Of Monoclonal Antibodies. Molecular Biotechnology, 2011, 48, 263-276.	2.4	21
68	Partitioning of peptides and recombinant protein–peptide fusions in thermoseparating aqueous two-phase systems: effect of peptide primary structure. Biomedical Applications, 2000, 743, 295-306.	1.7	20
69	An affibody-adalimumab hybrid blocks combined IL-6 and TNF-triggered serum amyloid A secretion in vivo. MAbs, 2014, 6, 1598-1607.	5.2	20
70	Production of a Thermostable DNA Polymerase by Site-Specific Cleavage of a Heat-Eluted Affinity Fusion Protein. Protein Expression and Purification, 1997, 9, 125-132.	1.3	19
71	Fluorescent detection of β-lactamase activity in livingEscherichia colicells via esterase supplementation. FEMS Microbiology Letters, 2005, 242, 73-79.	1.8	18
72	Affinity maturation of a TNFαâ€binding Affibody molecule by Darwinian survival selection. Biotechnology and Applied Biochemistry, 2010, 55, 111-120.	3.1	16

#	Article	IF	CITATIONS
73	Integrated bioprocess for production of human proinsulin C-peptide via heat release of an intracellular heptameric fusion protein. Journal of Biotechnology, 2000, 76, 215-226.	3.8	15
74	Fluorescence-microscopy-based image analysis for analyte-dependent particle doublet detection in a single-step immunoagglutination assay. Analytical Biochemistry, 2005, 338, 90-101.	2.4	15
75	Selectivity analysis of single binder assays used in plasma protein profiling. Proteomics, 2013, 13, 3406-3410.	2.2	15
76	Fluorescence resonance energy transfer-based detection of analytes using antiidiotypic affinity protein pairs. Analytical Biochemistry, 2004, 334, 72-80.	2.4	14
77	Gene fragment polymerization gives increased yields of recombinant human proinsulin C-peptide. Gene, 1998, 210, 203-210.	2.2	13
78	Selection and characterisation of affibody molecules inhibiting the interaction between Ras and Raf in vitro. New Biotechnology, 2010, 27, 766-773.	4.4	13
79	Structural and functional analysis of the human IgG-Fab receptor activity of streptococcal protein G. Molecular Immunology, 1991, 28, 1055-1061.	2.2	12
80	Kinetic characterization of the interaction of the Z-fragment of protein A with mouse-lgG3 in a volume in chemical space. , 1999, 37, 494-498.		12
81	Evaluation of different linker regions for multimerization and coupling chemistry for immobilization of a proteinaceous affinity ligand. Protein Engineering, Design and Selection, 2003, 16, 1147-1152.	2.1	12
82	Combinatorial expression vector engineering for tuning of recombinant protein production in Escherichia coli. Nucleic Acids Research, 2007, 35, e32-e32.	14.5	12
83	Systemic administration of monovalent follistatin-like 3-Fc-fusion protein increases muscle mass in mice. IScience, 2021, 24, 102488.	4.1	12
84	Efficient Labeling of Native Human IgG by Proximity-Based Sortase-Mediated Isopeptide Ligation. Bioconjugate Chemistry, 2021, 32, 1058-1066.	3.6	12
85	Predominance of H-2d- and H-2k-restricted T-cell epitopes in the highly repetitive Plasmodium falciparum antigen Pf332. Molecular Immunology, 1997, 34, 379-389.	2.2	11
86	Inhibitory effects of H-Ras/Raf-1-binding affibody molecules on synovial cell function. AMB Express, 2014, 4, 82.	3.0	11
87	Site-specific and reversible anchoring of active proteins onto cellulose using a cellulosome-like complex. Journal of Biotechnology, 2004, 109, 277-286.	3.8	10
88	Monitored whole gene in vitro evolution of an anti-hRaf-1 affibody molecule towards increased binding affinity. New Biotechnology, 2012, 29, 534-542.	4.4	10
89	Detection and Isolation of Recombinant Proteins Based on Binding Affinity of Reporter: Protein A. , 1997, 63, 103-118.		9
90	Unexpected <scp>T</scp> â€eell recognition of an altered peptide ligand is driven by reversed thermodynamics. European Journal of Immunology, 2012, 42, 2990-3000.	2.9	9

#	Article	IF	Citations
91	Tuning antiviral CD8 T-cell response via proline-altered peptide ligand vaccination. PLoS Pathogens, 2020, 16, e1008244.	4.7	9
92	Differential degradation of a recombinant albumin-binding receptor in Escherichia coli. FEBS Journal, 1991, 199, 41-46.	0.2	8
93	Mammalian cell production of a respiratory syncytial virus (RSV) candidate vaccine recovered using a product-specific affinity column. Biotechnology and Applied Biochemistry, 2001, 34, 25.	3.1	8
94	Chromophore pre-maturation for improved speed and sensitivity of split-GFP monitoring of protein secretion. Scientific Reports, 2019, 9, 310.	3.3	8
95	Discovery, optimization and biodistribution of an Affibody molecule for imaging of CD69. Scientific Reports, 2021, 11, 19151.	3.3	8
96	Strategies for Gene Fusions. , 1997, 62, 37-54.		7
97	Quantitative Investigation of the Modular Primer Effect for DNA and Peptide Nucleic Acid Hexamers. Analytical Biochemistry, 1999, 269, 155-161.	2.4	7
98	Functional selection of phage displayed peptides for facilitated design of fusion tags improving aqueous two-phase partitioning of recombinant proteins. Journal of Biotechnology, 2002, 93, 1-14.	3.8	7
99	1H, 13C and 15N resonance assignments of an affibody-target complex. Journal of Biomolecular NMR, 2002, 24, 271-272.	2.8	7
100	Affinity-based entrapment of the HER2 receptor in the endoplasmic reticulum using an affibody molecule. Journal of Immunological Methods, 2008, 338, 1-6.	1.4	7
101	Lysis of Staphylococcal Cells by Modular Lysin Domains Linked via a Non-covalent Barnase-Barstar Interaction Bridge. Frontiers in Microbiology, 2019, 10, 558.	3.5	7
102	Siteâ€Specific Photoconjugation of Betaâ€Lactamase Fragments to Monoclonal Antibodies Enables Sensitive Analyte Detection via Splitâ€Enzyme Complementation. Biotechnology Journal, 2018, 13, e1700688.	3.5	5
103	The Wittig bioconjugation of maleimide derived, water soluble phosphonium ylides to aldehyde-tagged proteins. Organic and Biomolecular Chemistry, 2021, 19, 10417-10423.	2.8	4
104	Affibody-mediated retention of the epidermal growth factor receptor in the secretory compartments leads to inhibition of phosphorylation in the kinase domain. New Biotechnology, 2009, 25, 417-423.	4.4	3
105	Affinity Ligands from Biological Combinatorial Libraries. Methods of Biochemical Analysis, 2011, 54, 269-278.	0.2	1
106	Cancer Diagnostics by Multiparameter Fluorescence Image Spectroscopy: A Bioinformatic Classifier Trained on Cultured Immunostained Cells. Biophysical Journal, 2013, 104, 342a.	0.5	1
107	Combinatorial Protein Chemistry- New Proteins With Selective Binding. Biochemical Society Transactions, 2000, 28, A125-A125.	3.4	0
108	Assigned NMR backbone resonances of the ligand-binding region domain of the pneumococcal serine-rich repeat protein (PsrP-BR) reveal a rigid monomer in solution. Biomolecular NMR Assignments, 2020, 14, 195-200.	0.8	0

# ARTICLE IF CITATIONS

109 Genetic Strategies for Protein Purification., 1991,, 313-320.