

Arne Skerra

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

237
papers

10,893
citations

54
h-index

97
g-index

247
ext. papers

12,066
ext. citations

6.2
avg. IF

6.65
L-index

#	Paper	IF	Citations
237	Metabotropic 5-HT receptor-mediated effects in the human submucous plexus.. <i>Neurogastroenterology and Motility</i> , 2022 , e14380	4	0
236	Schiffe Versenken – Optimierung einer hochaktiven Saccharose-Isomerase. <i>BioSpektrum</i> , 2021 , 27, 654-656	5.1	1
235	The IMiD target CRBN determines HSP90 activity toward transmembrane proteins essential in multiple myeloma. <i>Molecular Cell</i> , 2021 , 81, 1170-1186.e10	17.6	18
234	The Role of Changing Loop Conformations in Streptavidin Versions Engineered for High-affinity Binding of the Strep-tag II Peptide. <i>Journal of Molecular Biology</i> , 2021 , 433, 166893	6.5	1
233	Effective rational humanization of a PASylated anti-galectin-3 Fab for the sensitive PET imaging of thyroid cancer in vivo. <i>Scientific Reports</i> , 2021 , 11, 7358	4.9	0
232	Catalytic activity and stereoselectivity of engineered phosphotriesterases towards structurally different nerve agents in vitro. <i>Archives of Toxicology</i> , 2021 , 95, 2815-2823	5.8	3
231	Anticalin – proteins: from bench to bedside. <i>Expert Opinion on Biological Therapy</i> , 2021 , 21, 509-518	5.4	5
230	Complement inhibition at the level of C3 or C5: mechanistic reasons for ongoing terminal pathway activity. <i>Blood</i> , 2021 , 137, 443-455	2.2	14
229	The extracellular region of bovine milk butyrophilin exhibits closer structural similarity to human myelin oligodendrocyte glycoprotein than to immunological BTN family receptors. <i>Biological Chemistry</i> , 2021 , 402, 1187-1202	4.5	0
228	An Evolutionary Perspective of the Lipocalin Protein Family. <i>Frontiers in Physiology</i> , 2021 , 12, 718983	4.6	4
227	Inhibition of an organophosphate-detoxifying bacterial phosphotriesterase by albumin and plasma thiol components. <i>Toxicology Letters</i> , 2021 , 350, 194-201	4.4	0
226	Post-VX exposure treatment of rats with engineered phosphotriesterases.. <i>Archives of Toxicology</i> , 2021 , 96, 571	5.8	1
225	Translating the Concept of Bispecific Antibodies to Engineering Heterodimeric Phosphotriesterases with Broad Organophosphate Substrate Recognition. <i>Biochemistry</i> , 2020 , 59, 4395-4406	3.2	5
224	Design of a surrogate Anticalin protein directed against CD98hc for preclinical studies in mice. <i>Protein Science</i> , 2020 , 29, 1774-1783	6.3	3
223	Engineering a Highly Active Sucrose Isomerase for Enhanced Product Specificity by Using a "Battleship" Strategy. <i>ChemBioChem</i> , 2020 , 21, 2161-2169	3.8	7
222	Development of a Chimeric Antigen-Binding Fragment Directed Against Human Galectin-3 and Validation as an Immuno-Positron Emission Tomography Tracer for the Sensitive Imaging of Thyroid Cancer. <i>Thyroid</i> , 2020 , 30, 1314-1326	6.2	4
221	Development of a high affinity Anticalin directed against human CD98hc for theranostic applications. <i>Theranostics</i> , 2020 , 10, 2172-2187	12.1	9

220	First In-Human Medical Imaging with a PASylated Zr-Labeled Anti-HER2 Fab-Fragment in a Patient with Metastatic Breast Cancer. <i>Nuclear Medicine and Molecular Imaging</i> , 2020 , 54, 114-119	1.9	6
219	Proline/alanine-rich sequence (PAS) polypeptides as an alternative to PEG precipitants for protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020 , 76, 320-325	1.1	2
218	PASylation of IL-1 receptor antagonist (IL-1Ra) retains IL-1 blockade and extends its duration in mouse urate crystal-induced peritonitis. <i>Journal of Biological Chemistry</i> , 2020 , 295, 868-882	5.4	6
217	Engineered Protein Scaffolds as Next-Generation Therapeutics. <i>Annual Review of Pharmacology and Toxicology</i> , 2020 , 60, 391-415	17.9	39
216	PASylation of IL-1 receptor antagonist (IL-1Ra) retains IL-1 blockade and extends its duration in mouse urate crystal-induced peritonitis. <i>Journal of Biological Chemistry</i> , 2020 , 295, 868-882	5.4	4
215	A catalytic bioscavenger with improved stability and reduced susceptibility to oxidation for treatment of acute poisoning with neurotoxic organophosphorus compounds. <i>Toxicology Letters</i> , 2020 , 321, 138-145	4.4	10
214	Scavenging Bacterial Siderophores with Engineered Lipocalin Proteins as an Alternative Antimicrobial Strategy. <i>ChemBioChem</i> , 2020 , 21, 601-606	3.8	12
213	A Tetrahedral Boronic Acid Diester Formed by an Unnatural Amino Acid in the Ligand Pocket of an Engineered Lipocalin. <i>ChemBioChem</i> , 2020 , 21, 469-472	3.8	3
212	Engineering of binding functions into proteins. <i>Current Opinion in Biotechnology</i> , 2019 , 60, 230-241	11.4	16
211	Half-life extension and non-human primate pharmacokinetic safety studies of i-body AD-114 targeting human CXCR4. <i>MAbs</i> , 2019 , 11, 1331-1340	6.6	7
210	Structural differences between the ectodomains of murine and human CD98hc. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019 , 87, 693-698	4.2	4
209	Regeneration After Radiation- and Immune-Mediated Tissue Injury Is Not Enhanced by Type III Interferon Signaling. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 970-976	4	4
208	Different Levels of Incomplete Terminal Pathway Inhibition by Eculizumab and the Clinical Response of PNH Patients. <i>Frontiers in Immunology</i> , 2019 , 10, 1639	8.4	10
207	FluoroCalins: engineered lipocalins with novel binding functions fused to a fluorescent protein for applications in biomolecular imaging and detection. <i>Protein Engineering, Design and Selection</i> , 2019 , 32, 289-296	1.9	3
206	PASylated interferon α efficiently suppresses hepatitis B virus and induces anti-HBs seroconversion in HBV-transgenic mice. <i>Antiviral Research</i> , 2019 , 161, 134-143	10.8	12
205	An engineered lipocalin that tightly complexes the plant poison colchicine for use as antidote and in bioanalytical applications. <i>Biological Chemistry</i> , 2019 , 400, 351-366	4.5	10
204	Structural Basis for the Specific Cotranslational Incorporation of p-Boronophenylalanine into Biosynthetic Proteins. <i>Biochemistry</i> , 2018 , 57, 2597-2600	3.2	5
203	Anticalins Reveal High Plasticity in the Mode of Complex Formation with a Common Tumor Antigen. <i>Structure</i> , 2018 , 26, 649-656.e3	5.2	6

202	The polypeptide biophysics of proline/alanine-rich sequences (PAS): Recombinant biopolymers with PEG-like properties. <i>Biopolymers</i> , 2018 , 109, e23069	2.2	28
201	Prospects of PASylation□ for the design of protein and peptide therapeutics with extended half-life and enhanced action. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 2882-2887	3.4	35
200	Reprogramming Human Siderocalin To Neutralize Petrobactin, the Essential Iron Scavenger of Anthrax Bacillus. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14619-14623	16.4	15
199	Fixation of gaseous CO ₂ by reversing a decarboxylase for the biocatalytic synthesis of the essential amino acid l-methionine. <i>Nature Catalysis</i> , 2018 , 1, 555-561	36.5	12
198	Anticalin Proteins as Therapeutic Agents in Human Diseases. <i>BioDrugs</i> , 2018 , 32, 233-243	7.9	52
197	Neuprogrammierung von humanem Siderocalin zur Neutralisierung von Petrobactin, dem essenziellen Eisenffüger des Milzbrand-Bazillus. <i>Angewandte Chemie</i> , 2018 , 130, 14829-14833	3.6	1
196	A platform for discovery of functional cell-penetrating peptides for efficient multi-cargo intracellular delivery. <i>Scientific Reports</i> , 2018 , 8, 12538	4.9	38
195	Selection of an Anticalin□ against the membrane form of Hsp70 via bacterial surface display and its theranostic application in tumour models. <i>Biological Chemistry</i> , 2018 , 399, 235-252	4.5	14
194	Innenrücktitelbild: Neuprogrammierung von humanem Siderocalin zur Neutralisierung von Petrobactin, dem essenziellen Eisenffüger des Milzbrand-Bazillus (Angew. Chem. 44/2018). <i>Angewandte Chemie</i> , 2018 , 130, 14867-14867	3.6	
193	Consistent success in life-supporting porcine cardiac xenotransplantation. <i>Nature</i> , 2018 , 564, 430-433	50.4	197
192	Type I IFN signaling blockade by a PASylated antagonist during chronic SIV infection suppresses specific inflammatory pathways but does not alter T cell activation or virus replication. <i>PLoS Pathogens</i> , 2018 , 14, e1007246	7.6	19
191	Anticalins directed against vascular endothelial growth factor receptor 3 (VEGFR-3) with picomolar affinities show potential for medical therapy and in vivo imaging. <i>Biological Chemistry</i> , 2017 , 398, 39-55	4.5	20
190	Novel Monoclonal Antibodies Recognizing Human Prostate-Specific Membrane Antigen (PSMA) as Research and Theranostic Tools. <i>Prostate</i> , 2017 , 77, 749-764	4.2	13
189	Tight Molecular Recognition of Benzo[a]pyrene by a High-Affinity Antibody. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10592-10597	16.4	7
188	Enge molekulare Erkennung von Benzo[a]pyren durch einen hochaffinen Antikörper. <i>Angewandte Chemie</i> , 2017 , 129, 10728-10733	3.6	2
187	Incomplete inhibition by eculizumab: mechanistic evidence for residual C5 activity during strong complement activation. <i>Blood</i> , 2017 , 129, 970-980	2.2	79
186	Rational Design of an Anticalin-Type Sugar-Binding Protein Using a Genetically Encoded Boronate Side Chain. <i>ACS Synthetic Biology</i> , 2017 , 6, 2241-2247	5.7	13
185	PASylation□ : A versatile technology to extend drug delivery. <i>Current Opinion in Colloid and Interface Science</i> , 2017 , 31, 10-17	7.6	41

184	Aligning, analyzing, and visualizing sequences for antibody engineering: Automated recognition of immunoglobulin variable region features. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017 , 85, 65-74	4.2	4
183	Comparison of enzymatic properties and small molecule inhibition of α -glutamyltranspeptidases from pathogenic and commensal bacteria. <i>Biological Chemistry</i> , 2017 , 398, 341-357	4.5	5
182	PASylated Coversin, a C5-Specific Complement Inhibitor with Extended Pharmacokinetics, Shows Enhanced Anti-Hemolytic Activity in Vitro. <i>Bioconjugate Chemistry</i> , 2016 , 27, 2359-2371	6.3	39
181	Tumor Uptake of Anti-CD20 Fabs Depends on Tumor Perfusion. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 1971-1977	8.9	12
180	Treatment of diet-induced lipodystrophic C57BL/6J mice with long-acting PASylated leptin normalises insulin sensitivity and hepatic steatosis by promoting lipid utilisation. <i>Diabetologia</i> , 2016 , 59, 2005-12	10.3	9
179	ANTICALIgN: visualizing, editing and analyzing combined nucleotide and amino acid sequence alignments for combinatorial protein engineering. <i>Protein Engineering, Design and Selection</i> , 2016 , 29, 263-70	1.9	4
178	Structural basis for cellulose binding by the type A carbohydrate-binding module 64 of Spirochaeta thermophila. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 855-8	4.2	10
177	High-affinity Anticalins with aggregation-blocking activity directed against the Alzheimer β -amyloid peptide. <i>Biochemical Journal</i> , 2016 , 473, 1563-78	3.8	22
176	Engineering of alanine dehydrogenase from Bacillus subtilis for novel cofactor specificity. <i>Biotechnology and Applied Biochemistry</i> , 2016 , 63, 616-624	2.8	13
175	Selection and characterization of Anticalins targeting human prostate-specific membrane antigen (PSMA). <i>Protein Engineering, Design and Selection</i> , 2016 , 29, 105-15	1.9	21
174	Functional characterization of a VEGF-A-targeting Anticalin, prototype of a novel therapeutic human protein class. <i>Angiogenesis</i> , 2016 , 19, 79-94	10.6	25
173	Long-Acting PASylated Leptin Ameliorates Obesity by Promoting Satiety and Preventing Hypometabolism in Leptin-Deficient Lep(ob/ob) Mice. <i>Endocrinology</i> , 2016 , 157, 233-44	4.8	20
172	Anticalins directed against the fibronectin extra domain B as diagnostic tracers for glioblastomas. <i>International Journal of Cancer</i> , 2016 , 138, 1269-80	7.5	11
171	Fusion of an alcohol dehydrogenase with an aminotransferase using a PAS linker to improve coupled enzymatic alcohol-to-amine conversion. <i>Protein Engineering, Design and Selection</i> , 2016 , 29, 557-562	1.9	16
170	Expression and Purification of EPHA2 Tyrosine Kinase Domain for Crystallographic and NMR Studies. <i>ChemBioChem</i> , 2016 , 17, 2257-2263	3.8	2
169	Reprogramming the body weight set point by a reciprocal interaction of hypothalamic leptin sensitivity and Pomc gene expression reverts extreme obesity. <i>Molecular Metabolism</i> , 2016 , 5, 869-881	8.8	29
168	Rekombinante therapeutische Proteine – eine Erfolgsgeschichte. <i>BioSpektrum</i> , 2015 , 21, 36-38	0.1	
167	Structural Basis for the Interconversion of Maltodextrins by MalQ, the Amylomaltase of Escherichia coli. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21352-64	5.4	21

166	Crystal structure of the human odorant binding protein, OBPIIIa. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015 , 83, 1180-4	4.2	16
165	The menagerie of human lipocalins: a natural protein scaffold for molecular recognition of physiological compounds. <i>Accounts of Chemical Research</i> , 2015 , 48, 976-85	24.3	65
164	The dimeric crystal structure of the human fertility lipocalin glycodelin reveals a protein scaffold for the presentation of complex glycans. <i>Biochemical Journal</i> , 2015 , 466, 95-104	3.8	15
163	PASylation of Murine Leptin Leads to Extended Plasma Half-Life and Enhanced in Vivo Efficacy. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1431-42	5.6	53
162	Alternative Protein Scaffolds as Novel Biotherapeutics. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2015 , 221-268	0.5	6
161	Stability engineering of the <i>Geobacillus stearothermophilus</i> alcohol dehydrogenase and application for the synthesis of a polyamide 12 precursor. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10501-13	5.7	7
160	Optimisation of a system for the co-translational incorporation of a keto amino acid and its application to a tumour-specific Anticalin. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 553-65	1.9	4
159	Current Strategies for Pharmacokinetic Optimization. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2015 , 269-311	0.5	3
158	⁹⁰ Zr-Labeled Versus ¹²⁵ I-Labeled HER2 Fab with Optimized Plasma Half-Life for High-Contrast Tumor Imaging In Vivo. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1112-8	8.9	35
157	Engineered protein scaffolds: have they lived up to expectations? <i>Pharmaceutical Bioprocessing</i> , 2015 , 3, 383-386		1
156	High contrast tumor imaging with radio-labeled antibody Fab fragments tailored for optimized pharmacokinetics via PASylation. <i>MAbs</i> , 2015 , 7, 96-109	6.6	55
155	The Strep-tag system for one-step affinity purification of proteins from mammalian cell culture. <i>Methods in Molecular Biology</i> , 2015 , 1286, 83-95	1.4	9
154	Enhanced in vivo efficacy of a type I interferon superagonist with extended plasma half-life in a mouse model of multiple sclerosis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 29014-29	5.4	47
153	Non-Antibody Scaffolds as Alternative Therapeutic Agents 2014 , 435-474		4
152	Neuartige biopharmazeutische Wirkstoffe auf der Grundlage von Lipocalinen. <i>BioSpektrum</i> , 2014 , 20, 503-505	0.1	1
151	Derivatization of antibody Fab fragments: a designer enzyme for native protein modification. <i>ChemBioChem</i> , 2014 , 15, 1096-100	3.8	19
150	Moos ganz groß! Der PhyscoFilter. <i>BioSpektrum</i> , 2014 , 20, 238-239	0.1	
149	PAS-cal: a generic recombinant peptide calibration standard for mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 1489-97	3.5	1

148	PAS-cal: A repetitive peptide sequence calibration standard for MALDI mass spectrometry. <i>Proteomics</i> , 2014 , 14, 2427-31	4.8	3
147	Biochemical analysis of recombinant AlkJ from <i>Pseudomonas putida</i> reveals a membrane-associated, flavin adenine dinucleotide-dependent dehydrogenase suitable for the biosynthetic production of aliphatic aldehydes. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2468-77	4.8	25
146	A Fab fragment directed against the neural cell adhesion molecule L1 enhances functional recovery after injury of the adult mouse spinal cord. <i>Biochemical Journal</i> , 2014 , 460, 437-46	3.8	23
145	Sortase-catalyzed in vitro functionalization of a HER2-specific recombinant Fab for tumor targeting of the plant cytotoxin gelonin. <i>MAbs</i> , 2014 , 6, 354-66	6.6	52
144	Design and characterization of a modular membrane protein anchor to functionalize the moss <i>Physcomitrella patens</i> with extracellular catalytic and/or binding activities. <i>ACS Synthetic Biology</i> , 2014 , 3, 990-4	5.7	5
143	Combinatorial design of an Anticalin directed against the extra-domain b for the specific targeting of oncofetal fibronectin. <i>Journal of Molecular Biology</i> , 2013 , 425, 780-802	6.5	53
142	Structural basis for the enzymatic formation of the key strawberry flavor compound 4-hydroxy-2,5-dimethyl-3(2H)-furanone. <i>Journal of Biological Chemistry</i> , 2013 , 288, 16815-16826	5.4	19
141	PASylation: a biological alternative to PEGylation for extending the plasma half-life of pharmaceutically active proteins. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 489-501	1.9	206
140	Crystallographic analysis and structure-guided engineering of NADPH-dependent <i>Ralstonia</i> sp. alcohol dehydrogenase toward NADH cosubstrate specificity. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2803-14	4.9	20
139	Coupled Enzymatic Alcohol-to-Amine Conversion of Isosorbide using Engineered Transaminases and Dehydrogenases. <i>ChemCatChem</i> , 2013 , 5, 3374-3383	5.2	31
138	A photoswitchable neurotransmitter analogue bound to its receptor. <i>Biochemistry</i> , 2013 , 52, 8972-4	3.2	21
137	Crystal structure of the α -aminotransferase from <i>Paracoccus denitrificans</i> and its phylogenetic relationship with other class III aminotransferases that have biotechnological potential. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 774-87	4.2	35
136	Amination of Ketones by Employing Two New (S)-Selective α -Transaminases and the His-Tagged α -TA from <i>Vibrio fluvialis</i> . <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 1003-1007	3.2	69
135	The crystal structure of human α 1-microglobulin reveals a potential haem-binding site. <i>Biochemical Journal</i> , 2012 , 445, 175-82	3.8	25
134	High molecular mass radioimmunoconjugates are promising for intraperitoneal α -emitter immunotherapy due to prolonged retention in the peritoneum. <i>Nuclear Medicine and Biology</i> , 2012 , 39, 617-27	2.1	2
133	Half-Life Extension of Therapeutic Proteins via Genetic Fusion to Recombinant PEG Mimetics 2012 , 63-80		12
132	Intravenous application of an anticalin dramatically lowers plasma digoxin levels and reduces its toxic effects in rats. <i>Toxicology and Applied Pharmacology</i> , 2012 , 263, 352-9	4.6	18
131	Deactivation of the <i>E. coli</i> pH stress sensor CadC by cadaverine. <i>Journal of Molecular Biology</i> , 2012 , 424, 15-27	6.5	28

130	Anticalins small engineered binding proteins based on the lipocalin scaffold. <i>Methods in Enzymology</i> , 2012 , 503, 157-88	1.7	82
129	Endoplasmic reticulum stress response promotes cytotoxic phenotype of CD8 ⁺ intraepithelial lymphocytes in a mouse model for Crohn's disease-like ileitis. <i>Journal of Immunology</i> , 2012 , 189, 1510-20	5.3	26
128	Extra-domain B in oncofetal fibronectin structurally promotes fibrillar head-to-tail dimerization of extracellular matrix protein. <i>Journal of Biological Chemistry</i> , 2012 , 287, 17578-17588	5.4	26
127	β -Barrel scaffolds for the grafting of extracellular loops from G-protein-coupled receptors. <i>Biological Chemistry</i> , 2012 , 393, 1341-55	4.5	8
126	Novel serial positive enrichment technology enables clinical multiparameter cell sorting. <i>PLoS ONE</i> , 2012 , 7, e35798	3.7	50
125	NMR structure of lipoprotein YxeF from <i>Bacillus subtilis</i> reveals a calycin fold and distant homology with the lipocalin Blc from <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2012 , 7, e37404	3.7	4
124	A disulfide-free single-domain V(L) intrabody with blocking activity towards huntingtin reveals a novel mode of epitope recognition. <i>Journal of Molecular Biology</i> , 2011 , 414, 337-55	6.5	31
123	Detection of irradiation-induced, membrane heat shock protein 70 (Hsp70) in mouse tumors using Hsp70 Fab fragment. <i>Radiotherapy and Oncology</i> , 2011 , 99, 313-6	5.3	30
122	Biosynthesis of a fluorescent protein with extreme pseudo-Stokes shift by introducing a genetically encoded non-natural amino acid outside the fluorophore. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3708-11	16.4	26
121	Crystal structure of the sensory domain of <i>Escherichia coli</i> CadC, a member of the ToxR-like protein family. <i>Protein Science</i> , 2011 , 20, 656-69	6.3	18
120	Comparative analysis reveals selective recognition of glycans by the dendritic cell receptors DC-SIGN and Langerin. <i>Protein Engineering, Design and Selection</i> , 2011 , 24, 659-69	1.9	66
119	New insights into the signaling mechanism of the pH-responsive, membrane-integrated transcriptional activator CadC of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2011 , 286, 10681-9	5.4	43
118	Targeting membrane heat-shock protein 70 (Hsp70) on tumors by cmHsp70.1 antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 733-8	11.5	154
117	Discovery and Preclinical Characterization of a Novel Hepcidin Antagonist with Tunable PK/PD Properties for the Treatment of Anemia in Different Patient Populations. <i>Blood</i> , 2011 , 118, 687-687	2.2	7
116	Periplasmic chaperones used to enhance functional secretion of proteins in <i>E. coli</i> . <i>Methods in Molecular Biology</i> , 2011 , 705, 211-24	1.4	29
115	Crucial role for human Toll-like receptor 4 in the development of contact allergy to nickel. <i>Nature Immunology</i> , 2010 , 11, 814-9	19.1	442
114	A System for Repertoire Cloning and Phage Display of Murine and Leporid Antibody Fragments. <i>Journal of AOAC INTERNATIONAL</i> , 2010 , 93, 66-79	1.7	1
113	An Expression System for the <i>E. coli</i> Fermentation of Recombinant Antibody Fab Fragments from Mice and Rabbits. <i>Journal of AOAC INTERNATIONAL</i> , 2010 , 93, 80-88	1.7	3

112	Bacterial production and functional characterization of the Fab fragment of the murine IgG1/lambda monoclonal antibody cmHsp70.1, a reagent for tumour diagnostics. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 161-8	1.9	19
111	Neutrophil gelatinase-associated lipocalin expresses antimicrobial activity by interfering with L-norepinephrine-mediated bacterial iron acquisition. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 1580-9	5.9	57
110	Biochemie 2009. <i>Nachrichten Aus Der Chemie</i> , 2010 , 58, 300-313	0.1	
109	High-throughput sorting of an Anticalin library via EspP-mediated functional display on the Escherichia coli cell surface. <i>Journal of Molecular Biology</i> , 2010 , 400, 783-802	6.5	46
108	Engineering of an orthogonal aminoacyl-tRNA synthetase for efficient incorporation of the non-natural amino acid O-methyl-L-tyrosine using fluorescence-based bacterial cell sorting. <i>Journal of Molecular Biology</i> , 2010 , 404, 70-87	6.5	28
107	Interferon-gamma regulates intestinal epithelial homeostasis through converging beta-catenin signaling pathways. <i>Immunity</i> , 2010 , 32, 392-402	32.3	214
106	Structural and biochemical analyses reveal a monomeric state of the bacterial lipocalin Blc. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1308-15		13
105	Structure of the first representative of Pfam family PF09410 (DUF2006) reveals a structural signature of the calycin superfamily that suggests a role in lipid metabolism. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 1153-9		15
104	Selection of Antibody Fragments by Means of the Filter-Sandwich Colony Screening Assay 2010 , 255-266		2
103	Purification and Characterization of His-Tagged Antibody Fragments 2010 , 279-291		1
102	Purification and Analysis of Strep-tagged Antibody-Fragments 2010 , 317-330		1
101	Dkk-1 inhibits intestinal epithelial cell migration by attenuating directional polarization of leading edge cells. <i>Molecular Biology of the Cell</i> , 2009 , 20, 4816-25	3.5	31
100	A new crystal form of human tear lipocalin reveals high flexibility in the loop region and induced fit in the ligand cavity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 1118-25		31
99	Engineered protein scaffolds as next-generation antibody therapeutics. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 245-55	9.7	276
98	NMR structure and dynamics of the engineered fluorescein-binding lipocalin FluA reveal rigidification of beta-barrel and variable loops upon enthalpy-driven ligand binding. <i>Biochemistry</i> , 2009 , 48, 7411-9	3.2	10
97	High-affinity recognition of lanthanide(III) chelate complexes by a reprogrammed human lipocalin 2. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3565-76	16.4	53
96	Functional humanization of an anti-CD16 Fab fragment: obstacles of switching from murine {lambda} to human {lambda} or {kappa} light chains. <i>Protein Engineering, Design and Selection</i> , 2009 , 22, 175-88	1.9	7
95	DNA vaccination efficiently induces antibodies to Nogo-A and does not exacerbate experimental autoimmune encephalomyelitis. <i>European Journal of Pharmacology</i> , 2008 , 588, 99-105	5.3	6

94	Weiβ Biotechnologie Innovation fñ die Chemieindustrie. <i>Nachrichten Aus Der Chemie</i> , 2008 , 56, 1028-1031.	1	2
93	Structure of lumazine protein, an optical transponder of luminescent bacteria. <i>Journal of Molecular Biology</i> , 2008 , 382, 44-55	6.5	18
92	The 1.8-A crystal structure of alpha1-acid glycoprotein (Orosomucoid) solved by UV RIP reveals the broad drug-binding activity of this human plasma lipocalin. <i>Journal of Molecular Biology</i> , 2008 , 384, 393-405	6.5	112
91	The carbohydrate recognition domain of Langerin reveals high structural similarity with the one of DC-SIGN but an additional, calcium-independent sugar-binding site. <i>Molecular Immunology</i> , 2008 , 45, 1981-94	4.3	48
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