

Kai Johnsson

List of Publications by Year in Descending Order

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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.

174 papers	14,850 citations	55 h-index	121 g-index
201 ext. papers	16,897 ext. citations	10.4 avg, IF	6.38 L-index

#	Paper	IF	Citations
174	A synergistic strategy to develop photostable and bright dyes with long Stokes shift for nanoscopy.. <i>Nature Communications</i> , 2022 , 13, 2264	17.4	9
173	Engineered HaloTag variants for fluorescence lifetime multiplexing.. <i>Nature Methods</i> , 2021 ,	21.6	6
172	Mitochondrial NAD Controls Nuclear ARTD1-Induced ADP-Ribosylation. <i>Molecular Cell</i> , 2021 , 81, 340-354	12.5	13
171	Kinetic and Structural Characterization of the Self-Labeling Protein Tags HaloTag7, SNAP-tag, and CLIP-tag. <i>Biochemistry</i> , 2021 , 60, 2560-2575	3.2	18
170	Systematic Tuning of Rhodamine Spirocyclization for Super-resolution Microscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14592-14600	16.4	16
169	Sequential in vivo labeling of insulin secretory granule pools in - transgenic pigs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
168	Activatable fluorescent probes for hydrolase enzymes based on coumarin-hemicyanine hybrid fluorophores with large Stokes shifts. <i>Chemical Communications</i> , 2020 , 56, 5617-5620	5.8	9
167	Chemogenetic Control of Nanobodies. <i>Nature Methods</i> , 2020 , 17, 279-282	21.6	27
166	Super-resolution microscopy compatible fluorescent probes reveal endogenous glucagon-like peptide-1 receptor distribution and dynamics. <i>Nature Communications</i> , 2020 , 11, 467	17.4	41
165	A general strategy to develop cell permeable and fluorogenic probes for multicolour nanoscopy. <i>Nature Chemistry</i> , 2020 , 12, 165-172	17.6	115
164	SLC25A51 is a mammalian mitochondrial NAD transporter. <i>Nature</i> , 2020 , 588, 174-179	50.4	55
163	Environmentally Sensitive Color-Shifting Fluorophores for Bioimaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21880-21884	16.4	24
162	Environmentally Sensitive Color-Shifting Fluorophores for Bioimaging. <i>Angewandte Chemie</i> , 2020 , 132, 22064-22068	3.6	11
161	6,11-Dioxobenzo[<i>b</i>]pyrido[1,2- <i>b</i>]indoles Kill by Targeting Iron-Sulfur Protein Rv0338c (IspQ), A Putative Redox Sensor. <i>ACS Infectious Diseases</i> , 2020 , 6, 3015-3025	5.5	3
160	Photoactivation of silicon rhodamines via a light-induced protonation. <i>Nature Communications</i> , 2019 , 10, 4580	17.4	19
159	A ligand-based system for receptor-specific delivery of proteins. <i>Scientific Reports</i> , 2019 , 9, 19214	4.9	4
158	A biosensor for measuring NAD levels at the point of care. <i>Nature Metabolism</i> , 2019 , 1, 1219-1225	14.6	24

157	A Chemogenetic Approach for the Optical Monitoring of Voltage in Neurons. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2341-2344	16.4	25
156	A Chemogenetic Approach for the Optical Monitoring of Voltage in Neurons. <i>Angewandte Chemie</i> , 2019 , 131, 2363-2366	3.6	5
155	Small-Molecule Fluorescent Probes for Live-Cell Super-Resolution Microscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2770-2781	16.4	215
154	Control of mechanical pain hypersensitivity in mice through ligand-targeted photoablation of TrkB-positive sensory neurons. <i>Nature Communications</i> , 2018 , 9, 1640	17.4	51
153	SNAP-Tagged Nanobodies Enable Reversible Optical Control of a G Protein-Coupled Receptor via a Remotely Tethered Photoswitchable Ligand. <i>ACS Chemical Biology</i> , 2018 , 13, 2682-2688	4.9	28
152	Author response: Semisynthetic biosensors for mapping cellular concentrations of nicotinamide adenine dinucleotides 2018 ,		2
151	The metabolite BH4 controls T _H cell proliferation in autoimmunity and cancer. <i>Nature</i> , 2018 , 563, 564-568	50.4	103
150	Unintended specificity of an engineered ligand-binding protein facilitated by unpredicted plasticity of the protein fold. <i>Protein Engineering, Design and Selection</i> , 2018 , 31, 375-387	1.9	5
149	Semisynthetic sensor proteins enable metabolic assays at the point of care. <i>Science</i> , 2018 , 361, 1122-1126	39.3	78
148	Semisynthetic biosensors for mapping cellular concentrations of nicotinamide adenine dinucleotides. <i>ELife</i> , 2018 , 7,	8.9	50
147	A New Fluorogenic Small-Molecule Labeling Tool for Surface Diffusion Analysis and Advanced Fluorescence Imaging of β -Site Amyloid Precursor Protein-Cleaving Enzyme 1 Based on Silicone Rhodamine: SiR-BACE1. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 6121-6139	8.3	18
146	Bioluminescent Antibodies for Point-of-Care Diagnostics. <i>Angewandte Chemie</i> , 2017 , 129, 7218-7222	3.6	13
145	Bioluminescent Antibodies for Point-of-Care Diagnostics. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7112-7116	16.4	44
144	Expression proteomics study to determine metallodrug targets and optimal drug combinations. <i>Scientific Reports</i> , 2017 , 7, 1590	4.9	14
143	Rational Design and Applications of Semisynthetic Modular Biosensors: SNIFITs and LUCIDs. <i>Methods in Molecular Biology</i> , 2017 , 1596, 101-117	1.4	7
142	Luciferases with Tunable Emission Wavelengths. <i>Angewandte Chemie</i> , 2017 , 129, 14748-14752	3.6	10
141	Luciferases with Tunable Emission Wavelengths. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14556-14560	16.4	34
140	Differences in cisplatin distribution in sensitive and resistant ovarian cancer cells: a TEM/NanoSIMS study. <i>Metallomics</i> , 2017 , 9, 1413-1420	4.5	29

139	Evaluating Cellular Drug Uptake with Fluorescent Sensor Proteins. <i>ACS Sensors</i> , 2017 , 2, 1191-1197	9.2	16
138	Identification of aminopyrimidine-sulfonamides as potent modulators of Wag31-mediated cell elongation in mycobacteria. <i>Molecular Microbiology</i> , 2017 , 103, 13-25	4.1	17
137	Highly Modular Bioluminescent Sensors for Small Molecules and Proteins. <i>Methods in Enzymology</i> , 2017 , 589, 365-382	1.7	4
136	Computational design of environmental sensors for the potent opioid fentanyl. <i>ELife</i> , 2017 , 6,	8.9	44
135	Sampling and energy evaluation challenges in ligand binding protein design. <i>Protein Science</i> , 2017 , 26, 2426-2437	6.3	23
134	Chemical Genetic Screen Identifies Natural Products that Modulate Centriole Number. <i>ChemBioChem</i> , 2016 , 17, 2063-2074	3.8	3
133	Fluorogenic Probes for Multicolor Imaging in Living Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9365-8	16.4	149
132	Tetrahydrobiopterin Biosynthesis as a Potential Target of the Kynurenine Pathway Metabolite Xanthurenic Acid. <i>Journal of Biological Chemistry</i> , 2016 , 291, 652-7	5.4	36
131	Acetylated tubulin is essential for touch sensation in mice. <i>ELife</i> , 2016 , 5,	8.9	51
130	A General Strategy for the Semisynthesis of Ratiometric Fluorescent Sensor Proteins with Increased Dynamic Range. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5258-61	16.4	36
129	Modulating protein activity using tethered ligands with mutually exclusive binding sites. <i>Nature Communications</i> , 2015 , 6, 7830	17.4	33
128	Reduction of Neuropathic and Inflammatory Pain through Inhibition of the Tetrahydrobiopterin Pathway. <i>Neuron</i> , 2015 , 86, 1393-406	13.9	76
127	SiR-Hoechst is a far-red DNA stain for live-cell nanoscopy. <i>Nature Communications</i> , 2015 , 6, 8497	17.4	171
126	NanoSIMS analysis of an isotopically labelled organometallic ruthenium(II) drug to probe its distribution and state in vitro. <i>Chemical Communications</i> , 2015 , 51, 16486-9	5.8	34
125	Imaging and manipulating proteins in live cells through covalent labeling. <i>Nature Chemical Biology</i> , 2015 , 11, 917-23	11.7	137
124	Genetic targeting of chemical indicators in vivo. <i>Nature Methods</i> , 2015 , 12, 137-9	21.6	48
123	Fluorescent labeling of SNAP-tagged proteins in cells. <i>Methods in Molecular Biology</i> , 2015 , 1266, 107-18	1.4	14
122	A fluorogenic probe for SNAP-tagged plasma membrane proteins based on the solvatochromic molecule Nile Red. <i>ACS Chemical Biology</i> , 2014 , 9, 606-12	4.9	69

121	Sensing acetylcholine and anticholinesterase compounds. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1302-5	16.4	36
120	Fluorescence microscopy: strategic blinking. <i>Nature Chemistry</i> , 2014 , 6, 663-4	17.6	12
119	Bioluminescent sensor proteins for point-of-care therapeutic drug monitoring. <i>Nature Chemical Biology</i> , 2014 , 10, 598-603	11.7	122
118	Fluorogenic probes for live-cell imaging of the cytoskeleton. <i>Nature Methods</i> , 2014 , 11, 731-3	21.6	507
117	Sensing Acetylcholine and Anticholinesterase Compounds. <i>Angewandte Chemie</i> , 2014 , 126, 1326-1329	3.6	4
116	Computational design of ligand-binding proteins with high affinity and selectivity. <i>Nature</i> , 2013 , 501, 212-216	50.4	299
115	Identification of a small molecule with activity against drug-resistant and persistent tuberculosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2510-7	11.5	150
114	Tetrahydrobiopterin biosynthesis as an off-target of sulfa drugs. <i>Science</i> , 2013 , 340, 987-91	33.3	65
113	Selective chemical crosslinking reveals a Cep57-Cep63-Cep152 centrosomal complex. <i>Current Biology</i> , 2013 , 23, 265-70	6.3	78
112	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. <i>Nature Chemistry</i> , 2013 , 5, 132-9	17.6	607
111	Investigating endocytic pathways to the endoplasmic reticulum and to the cytosol using SNAP-trap. <i>Traffic</i> , 2013 , 14, 36-46	5.7	17
110	Protein tag-mediated conjugation of oligonucleotides to recombinant affinity binders for proximity ligation. <i>New Biotechnology</i> , 2013 , 30, 144-52	6.4	28
109	Yeast three-hybrid screening for identifying anti-tuberculosis drug targets. <i>ChemBioChem</i> , 2013 , 14, 2239-42	3.8	7
108	Commercial Cdk1 antibodies recognize the centrosomal protein Cep152. <i>BioTechniques</i> , 2013 , 55, 111-4	2.5	8
107	Substrates for improved live-cell fluorescence labeling of SNAP-tag. <i>Current Pharmaceutical Design</i> , 2013 , 19, 5414-20	3.3	26
106	A fluorescent sensor for GABA and synthetic GABA(B) receptor ligands. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19026-34	16.4	81
105	Directed evolution of the suicide protein O ⁶ -alkylguanine-DNA alkyltransferase for increased reactivity results in an alkylated protein with exceptional stability. <i>Biochemistry</i> , 2012 , 51, 986-94	3.2	55
104	A semisynthetic fluorescent sensor protein for glutamate. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7676-8	16.4	76

103	Liver-specific ablation of Krüppel-associated box-associated protein 1 in mice leads to male-predominant hepatosteatosis and development of liver adenoma. <i>Hepatology</i> , 2012 , 56, 1279-90	11.2	37
102	A caged, localizable rhodamine derivative for superresolution microscopy. <i>ACS Chemical Biology</i> , 2012 , 7, 289-93	4.9	63
101	Exploiting ligand-protein conjugates to monitor ligand-receptor interactions. <i>PLoS ONE</i> , 2012 , 7, e37598	3.7	16
100	Benzothiazinones are suicide inhibitors of mycobacterial decaprenylphosphoryl- β -D-ribofuranose 2Soyidase DprE1. <i>Journal of the American Chemical Society</i> , 2012 , 134, 912-5	16.4	126
99	WhiB5, a transcriptional regulator that contributes to Mycobacterium tuberculosis virulence and reactivation. <i>Infection and Immunity</i> , 2012 , 80, 3132-44	3.7	44
98	Triplet imaging of oxygen consumption during the contraction of a single smooth muscle cell (A7r5). <i>Advances in Experimental Medicine and Biology</i> , 2012 , 737, 263-8	3.6	1
97	Semisynthesis of fluorescent metabolite sensors on cell surfaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16235-42	16.4	62
96	Visualizing biochemical activities in living cells through chemistry. <i>Chimia</i> , 2011 , 65, 868-71	1.3	13
95	Chemical biology approaches to membrane homeostasis and function. <i>Chimia</i> , 2011 , 65, 849-52	1.3	3
94	Switchable fluorophores for protein labeling in living cells. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 768-74	9.7	30
93	Labelling cell structures and tracking cell lineage in zebrafish using SNAP-tag. <i>Developmental Dynamics</i> , 2011 , 240, 820-7	2.9	28
92	Development of SNAP-tag fluorogenic probes for wash-free fluorescence imaging. <i>ChemBioChem</i> , 2011 , 12, 2217-26	3.8	197
91	Inside Cover: Development of SNAP-Tag Fluorogenic Probes for Wash-Free Fluorescence Imaging (ChemBioChem 14/2011). <i>ChemBioChem</i> , 2011 , 12, 2102-2102	3.8	
90	Measuring in vivo protein half-life. <i>Chemistry and Biology</i> , 2011 , 18, 805-15		63
89	Real-time measurements of protein dynamics using fluorescence activation-coupled protein labeling method. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6745-51	16.4	108
88	Searching for the protein targets of bioactive molecules. <i>Chimia</i> , 2011 , 65, 720-4	1.3	8
87	A yeast-based screen reveals that sulfasalazine inhibits tetrahydrobiopterin biosynthesis. <i>Nature Chemical Biology</i> , 2011 , 7, 375-83	11.7	97
86	PEG-based bioactive hydrogels crosslinked via phosphopantetheinyl transferase. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1272, 1		1

85	Photoactivatable and photoconvertible fluorescent probes for protein labeling. <i>ACS Chemical Biology</i> , 2010 , 5, 507-16	4.9	93
84	Triplet imaging of oxygen consumption during the contraction of a single smooth muscle cell (A7r5). <i>Biophysical Journal</i> , 2010 , 98, 339-49	2.9	34
83	Phosphopantetheinyl transferase-catalyzed formation of bioactive hydrogels for tissue engineering. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5972-4	16.4	68
82	Localizable and highly sensitive calcium indicator based on a BODIPY fluorophore. <i>Analytical Chemistry</i> , 2010 , 82, 6472-9	7.8	96
81	Fura-2FF-based calcium indicator for protein labeling. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 3398-401	3.9	12
80	Benzothiazinones: prodrugs that covalently modify the decaprenylphosphoryl-β-D-ribose 2Sepimerase DprE1 of Mycobacterium tuberculosis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13663-5	16.4	149
79	Using peptide loop insertion mutagenesis for the evolution of proteins. <i>Methods in Molecular Biology</i> , 2010 , 634, 217-32	1.4	4
78	Targeted photoswitchable probe for nanoscopy of biological structures. <i>ChemBioChem</i> , 2010 , 11, 1361-3	3.8	17
77	How to obtain labeled proteins and what to do with them. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 766-76	11.4	235
76	Visualizing biochemical activities in living cells. <i>Nature Chemical Biology</i> , 2009 , 5, 63-5	11.7	42
75	Selective cross-linking of interacting proteins using self-labeling tags. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17954-62	16.4	57
74	Semisynthetic fluorescent sensor proteins based on self-labeling protein tags. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5873-84	16.4	94
73	Indo-1 derivatives for local calcium sensing. <i>ACS Chemical Biology</i> , 2009 , 4, 179-190	4.9	88
72	Regulation of glutamate metabolism by protein kinases in mycobacteria. <i>Molecular Microbiology</i> , 2008 , 70, 1408-23	4.1	130
71	Subunit-specific surface mobility of differentially labeled AMPA receptor subunits. <i>European Journal of Cell Biology</i> , 2008 , 87, 763-78	6.1	14
70	A split-protein sensor for studying protein-protein interaction in mycobacteria. <i>Journal of Microbiological Methods</i> , 2008 , 73, 79-84	2.8	21
69	A designed protein for the specific and covalent heteroconjugation of biomolecules. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1753-6	6.3	20
68	Caged substrates for protein labeling and immobilization. <i>ChemBioChem</i> , 2008 , 9, 38-41	3.8	21

67	An engineered protein tag for multiprotein labeling in living cells. <i>Chemistry and Biology</i> , 2008 , 15, 128-36		750
66	Chemical tools for biomolecular imaging. <i>ACS Chemical Biology</i> , 2007 , 2, 31-8	4.9	205
65	A covalent chemical genotype-phenotype linkage for in vitro protein evolution. <i>ChemBioChem</i> , 2007 , 8, 2191-4	3.8	29
64	Inducing and sensing protein--protein interactions in living cells by selective cross-linking. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4281-4	16.4	30
63	Inducing and Sensing Protein-Protein Interactions in Living Cells by Selective Cross-linking. <i>Angewandte Chemie</i> , 2007 , 119, 4359-4362	3.6	6
62	Chemical probes shed light on protein function. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 488-94	8.1	155
61	Protein function microarrays based on self-immobilizing and self-labeling fusion proteins. <i>ChemBioChem</i> , 2006 , 7, 194-202	3.8	49
60	Post-translational covalent labeling reveals heterogeneous mobility of individual G protein-coupled receptors in living cells. <i>ChemBioChem</i> , 2006 , 7, 908-11	3.8	20
59	Directed evolution of O6-alkylguanine-DNA alkyltransferase for applications in protein labeling. <i>Protein Engineering, Design and Selection</i> , 2006 , 19, 309-16	1.9	114
58	FRET imaging reveals that functional neurokinin-1 receptors are monomeric and reside in membrane microdomains of live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2138-43	11.5	196
57	Evolving the substrate specificity of O6-alkylguanine-DNA alkyltransferase through loop insertion for applications in molecular imaging. <i>ACS Chemical Biology</i> , 2006 , 1, 575-84	4.9	23
56	Covalent labeling of cell-surface proteins for in-vivo FRET studies. <i>FEBS Letters</i> , 2006 , 580, 1654-8	3.8	22
55	Engineering substrate specificity of O6-alkylguanine-DNA alkyltransferase for specific protein labeling in living cells. <i>ChemBioChem</i> , 2005 , 6, 1263-9	3.8	55
54	Multicolor imaging of cell surface proteins. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12770-1	16.4	76
53	Protein-functionalized polymer brushes. <i>Biomacromolecules</i> , 2005 , 6, 1602-7	6.9	199
52	The laboratory in a droplet. <i>Chemistry and Biology</i> , 2005 , 12, 1255-7		9
51	Protein chemistry on the surface of living cells. <i>ChemBioChem</i> , 2005 , 6, 47-52	3.8	47
50	Fast directed evolution of non-immunoglobulin proteins by somatic hypermutation in immune cells. <i>ChemBioChem</i> , 2005 , 6, 804-6	3.8	

49	Adding value to fusion proteins through covalent labelling. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 453-8	11.4	89
48	Labeling of Fusion Proteins with Small Molecules in Vivo 2004 , 344-351		
47	Exploring the Capabilities of Nucleic Acid Polymerases by Use of Directed Evolution 2004 , 329-343		
46	Labeling of fusion proteins with synthetic fluorophores in live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9955-9	11.5	362
45	Transforming a (beta/alpha) ₈ -barrel enzyme into a split-protein sensor through directed evolution. <i>Chemistry and Biology</i> , 2004 , 11, 681-9		13
44	Synthesis and characterization of bifunctional probes for the specific labeling of fusion proteins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 2725-8	2.9	24
43	Specific labeling of cell surface proteins with chemically diverse compounds. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8896-7	16.4	283
42	Labeling of fusion proteins of O ₆ -alkylguanine-DNA alkyltransferase with small molecules in vivo and in vitro. <i>Methods</i> , 2004 , 32, 437-44	4.6	139
41	A fusion of disciplines: chemical approaches to exploit fusion proteins for functional genomics. <i>ChemBioChem</i> , 2003 , 4, 803-10	3.8	42
40	DNA repair protein O ₆ -methylguanine-DNA methyltransferase in testis and testicular tumors as determined by a novel nonradioactive assay. <i>Analytical Biochemistry</i> , 2003 , 321, 38-43	3.1	14
39	A general method for the covalent labeling of fusion proteins with small molecules in vivo. <i>Nature Biotechnology</i> , 2003 , 21, 86-9	44.5	1394
38	Directed evolution of O ₆ -alkylguanine-DNA alkyltransferase for efficient labeling of fusion proteins with small molecules in vivo. <i>Chemistry and Biology</i> , 2003 , 10, 313-7		231
37	Covalent and selective immobilization of fusion proteins. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7810-1	16.4	137
36	Induced protein dimerization in vivo through covalent labeling. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14970-1	16.4	46
35	Towards the generation of artificial O ₆ -alkylguanine-DNA alkyltransferases: in vitro selection of antibodies with reactive cysteine residues. <i>ChemBioChem</i> , 2002 , 3, 573-5	3.8	4
34	Examining reactivity and specificity of cytochrome c peroxidase by using combinatorial mutagenesis. <i>ChemBioChem</i> , 2002 , 3, 1097-104	3.8	15
33	Synthesis and applications of chemical probes for human O ₆ -alkylguanine-DNA alkyltransferase. <i>ChemBioChem</i> , 2001 , 2, 285-7	3.8	26
32	Changing the substrate specificity of cytochrome c peroxidase using directed evolution. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 286, 126-32	3.4	26

31	Inter- and intramolecular domain interactions of the catalase-peroxidase KatG from <i>M. tuberculosis</i> . <i>FEBS Letters</i> , 2001 , 509, 272-6	3.8	13
30	Directed molecular evolution of cytochrome c peroxidase. <i>Biochemistry</i> , 2000 , 39, 10790-8	3.2	55
29	Spontane Entstehung der bioaktiven Form des Tuberkulosemedikaments Isoniazid. <i>Angewandte Chemie</i> , 1999 , 111, 2724-2727	3.6	1
28	Spontaneous Formation of the Bioactive Form of the Tuberculosis Drug Isoniazid. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2588-2590	16.4	72
27	Use of site-directed mutagenesis to probe the structure, function and isoniazid activation of the catalase/peroxidase, KatG, from <i>Mycobacterium tuberculosis</i> . <i>Biochemical Journal</i> , 1999 , 338, 753-760	3.8	103
26	Use of site-directed mutagenesis to probe the structure, function and isoniazid activation of the catalase/peroxidase, KatG, from <i>Mycobacterium tuberculosis</i> . <i>Biochemical Journal</i> , 1999 , 338, 753	3.8	34
25	Overexpression, purification, and characterization of the catalase-peroxidase KatG from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 1997 , 272, 2834-40	5.4	111
24	Organization of Nanocrystal molecules Using DNA. <i>Nature</i> , 1996 , 382, 609-11	50.4	2569
23	Studies on the Mechanism of Action of Isoniazid and Ethionamide in the Chemotherapy of Tuberculosis. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5009-5010	16.4	184
22	Mechanistic Studies of the Oxidation of Isoniazid by the Catalase Peroxidase from <i>Mycobacterium tuberculosis</i> . <i>Journal of the American Chemical Society</i> , 1994 , 116, 7425-7426	16.4	239
21	Triple Helix Binding of Oligodeoxyribonucleotides Containing 8-Oxo-2'-deoxyadenosine. <i>Nucleosides & Nucleotides</i> , 1993 , 12, 237-243		14
20	Synthesis, structure and activity of artificial, rationally designed catalytic polypeptides. <i>Nature</i> , 1993 , 365, 530-2	50.4	195
19	A discontinuous epitope on p36, the major substrate of src tyrosine-protein-kinase, brings the phosphorylation site into the neighbourhood of a consensus sequence for Ca ²⁺ /lipid-binding proteins. <i>FEBS Letters</i> , 1988 , 236, 201-4	3.8	24
18	AGT/SNAP-Tag: A Versatile Tag for Covalent Protein Labeling		1
17	Directed Evolution as a Means to Create Enantioselective Enzymes for Use in Organic Chemistry		8
16	Advanced Screening Strategies for Biocatalyst Discovery		1
15	Evolutionary Generation Versus Rational Design of Restriction Endonucleases with Novel Specificity		0
14	Construction of Environmental Libraries for Functional Screening of Enzyme Activity		10

13	Exploring the Diversity of Heme Enzymes through Directed Evolution215-243	0
12	Using Evolutionary Strategies to Investigate the Structure and Function of Chorismate Mutases29-62	
11	Investigation of Phage Display for the Directed Evolution of Enzymes79-110	0
10	Directed Evolution of Binding Proteins by Cell Surface Display: Analysis of the Screening Process111-126	1
9	Engineering Protein Evolution177-213	2
8	Yeast n-Hybrid Systems for Molecular Evolution127-158	
7	Evolutionary Generation of Enzymes with Novel Substrate Specificities329-341	
6	Evolutionary Biotechnology IFrom Ideas and Concepts to Experiments and Computer Simulations5-28	
5	Applied Molecular Evolution of Enzymes Involved in Synthesis and Repair of DNA281-307	4
4	Purification of age-distinct insulin secretory granules through antigen restriction using the CLIP-tag	1
3	SNAP-tagged nanobodies enable reversible optical control of a G protein-coupled receptor via a remotely tethered photoswitchable ligand	1
2	Chemogenetic Control of Nanobodies	3
1	Sequential in vivo labeling of insulin secretory granule pools in INS-SNAP transgenic pigs	1