Katja M Arndt

List of Publications by Year
in descending order

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Version: 2024-02-01

54	2,386	304743	206112
papers	citations	22 h-index	48 g-index

54	54	54	2854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strategies for Enzymatic Inactivation of the Veterinary Antibiotic Florfenicol. Antibiotics, 2022, 11, 443.	3.7	2
2	Bacteriophageâ€Templated Assembly of Magnetic Nanoparticles and Their Actuation Potential. ChemNanoMat, 2021, 7, 942-949.	2.8	3
3	Characterizing Transcriptional Interference between Converging Genes in Bacteria. ACS Synthetic Biology, 2019, 8, 466-473.	3.8	14
4	Detection of Incorporation of p-Coumaric Acid into Photoactive Yellow Protein Variants in Vivo. Biochemistry, 2019, 58, 2682-2694.	2.5	6
5	rAAV Engineering for Capsid-Protein Enzyme Insertions and Mosaicism Reveals Resilience to Mutational, Structural and Thermal Perturbations. International Journal of Molecular Sciences, 2019, 20, 5702.	4.1	14
6	Selection of Proteinâ€“Protein Interactions of Desired Affinities with a Bandpass Circuit. Journal of Molecular Biology, 2019, 431, 391-400.	4.2	2
7	Strategies for the photo-control of endogenous protein activity. Current Opinion in Structural Biology, 2017, 45, 53-58.	5.7	14
8	A user-friendly, low-cost turbidostat with versatile growth rate estimation based on an extended Kalman filter. PLoS ONE, 2017, 12, e0181923.	2.5	21
9	Long-range transcriptional interference inE. coliused to construct a dual positive selection system for genetic switches. Nucleic Acids Research, 2016, 44, e95-e95.	14.5	18
10	AnEscherichia colisystem for evolving improved light-controlled DNA-binding proteins. Protein Engineering, Design and Selection, 2015, 28, 293-302.	2.1	8
11	Characterization and inhibition of AF10â€mediated interaction. Journal of Peptide Science, 2014, 20, 385-397.	1.4	7
12	Controlling leucine-zipper partner recognition in cells through modification of aâ€“g interactions. Chemical Communications, 2014, 50, 6364-6367.	4.1	8
13	Analysis of Selected and Designed Chimeric D- and L-Î±-Helix Assemblies. Biomacromolecules, 2014, 15, 3296-3305.	5.4	3
14	Improving coiled coil stability while maintaining specificity by a bacterial hitchhiker selection system. Journal of Structural Biology, 2014, 186, 335-348.	2.8	11
15	Modular adeno-associated virus (rAAV) vectors used for cellular virus-directed enzyme prodrug therapy. Scientific Reports, 2014, 4, 3759.	3.3	28
16	Directional cloning of DNA fragments using deoxyinosine-containing oligonucleotides and endonuclease V. BMC Biotechnology, 2013, 13, 81.	3.3	7
17	TAT hitchhiker selection expanded to folding helpers, multimeric interactions and combinations with protein fragment complementation. Protein Engineering, Design and Selection, 2013, 26, 225-242.	2.1	2
18	Free energy calculations of the interactions of câ€Junâ€based synthetic peptides with the câ€Fos protein. Biopolymers, 2012, 97, 899-909.	2.4	10

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19	Exploring the Molecular Linkage of Protein Stability Traits for Enzyme Optimization by Iterative Truncation and Evolution. Biochemistry, 2012, 51, 4850-4867.	2.5	13
20	Standardization in Synthetic Biology. Methods in Molecular Biology, 2012, 813, 23-43.	0.9	38
21	Light-Controlled Gene Switches in Mammalian Cells. Methods in Molecular Biology, 2012, 813, 195-210.	0.9	4
22	Nucleotide Exchange and Excision Technology DNA Shuffling and Directed Evolution. Methods in Molecular Biology, 2011, 687, 333-344.	0.9	7
23	Efficient phage display of intracellularly folded proteins mediated by the TAT pathway. Protein Engineering, Design and Selection, 2011, 24, 473-484.	2.1	27
24	Photocontrol of Coiledâ€Coil Proteins in Living Cells. Angewandte Chemie - International Edition, 2010, 49, 3943-3946.	13.8	108
25	SynBioWaveâ€"a real-time communication platform for molecular and synthetic biology. Bioinformatics, 2010, 26, 2782-2783.	4.1	7
26	Improving the interaction of Mycâ€interfering peptides with Myc using molecular dynamics simulations. Journal of Peptide Science, 2009, 15, 5-15.	1.4	11
27	Role of Hydrophobic and Electrostatic Interactions in Coiled Coil Stability and Specificity. Biochemistry, 2009, 48, 10380-10388.	2.5	34
28	Selection of Peptides Interfering with Proteinâ€"Protein Interaction. Methods in Molecular Biology, 2009, 535, 263-291.	0.9	7
29	Targeting the câ€Myc coiled coil with interfering peptides. Journal of Peptide Science, 2008, 14, 1022-1031.	1.4	20
30	Selectional and Mutational Scope of Peptides Sequestering the Junâ€"Fos Coiled-Coil Domain. Journal of Molecular Biology, 2008, 381, 73-88.	4.2	49
31	iPEP: peptides designed and selected for interfering with protein interaction and function. Biochemical Society Transactions, 2008, 36, 1442-1447.	3.4	13
32	Protein Engineering. Springer Protocols, 2008, , 587-629.	0.3	2
33	Directed Protein Evolution. Springer Protocols, 2008, , 631-656.	0.3	3
34	Considerations in the Design and Optimization of Coiled Coil Structures. , 2007, 352, 35-70.		29
35	A General Method of Terminal Truncation, Evolution, and Re-Elongation to Generate Enzymes of Enhanced Stability. , 2007, 352, 275-304.		6
36	Versatile DNA Fragmentation and Directed Evolution With Nucleotide Exchange and Excision Technology. , 2007, 352, 167-190.		1

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37	Improved Stability of the Jun-Fos Activator Protein-1 Coiled Coil Motif. Journal of Biological Chemistry, 2007, 282, 23015-23024.	3.4	39
38	Positive Aspects of Negative Design:â€‰ Simultaneous Selection of Specificity and Interaction Stability. Biochemistry, 2007, 46, 4804-4814.	2.5	55
39	Semirational design of Jun-Fos coiled coils with increased affinity: Universal implications for leucine zipper prediction and design. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8989-8994.	7.1	127
40	Nucleotide exchange and excision technology (NExT) DNA shuffling: a robust method for DNA fragmentation and directed evolution. Nucleic Acids Research, 2005, 33, e117-e117.	14.5	36
41	Coiled Coil Domains: Stability, Specificity, and Biological Implications. ChemBioChem, 2004, 5, 170-176.	2.6	611
42	Coiled Coil Domains: Stability, Specificity, and Biological Implications. ChemInform, 2004, 35, no.	0.0	0
43	Comparison of In Vivo Selection and Rational Design of Heterodimeric Coiled Coils. Structure, 2002, 10, 1235-1248.	3.3	51
44	Helix-stabilized fv (hsfv) antibody fragments: substituting the constant domains of a fab fragment for a heterodimeric coiled-coil domain 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 2001, 312, 221-228.	4.2	62
45	[22] Selectively infective phage technology. Methods in Enzymology, 2000, 328, 364-388.	1.0	6
46	A heterodimeric coiled-coil peptide pair selected in vivo from a designed library- versus -library ensemble 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 295, 627-639.	4.2	101
47	[17] Protein fusions to coiled-coil domains. Methods in Enzymology, 2000, 328, 261-282.	1.0	25
48	An in vivo library-versus-library selection of optimized proteinâ€“protein interactions. Nature Biotechnology, 1999, 17, 683-690.	17.5	182
49	Selectively infective phage (SIP) technology: scope and limitations. Journal of Immunological Methods, 1999, 231, 93-104.	1.4	35
50	Tandem Immobilized Metal-Ion Affinity Chromatography/Immunoaffinity Purification of His-tagged Proteinsâ€” Evaluation of Two Anti-His-Tag Monoclonal Antibodies. Analytical Biochemistry, 1998, 259, 54-61.	2.4	75
51	Model and Simulation of Multivalent Binding to Fixed Ligands. Analytical Biochemistry, 1998, 261, 149-158.	2.4	135
52	The first constant domain (CH1 and CL) of an antibody used as heterodimerization domain for bispecific miniantibodies. FEBS Letters, 1998, 422, 259-264.	2.8	76
53	A dimeric bispecific miniantibody combines two specificities with avidity. FEBS Letters, 1998, 432, 45-49.	2.8	69
54	Factors Influencing the Dimer to Monomer Transition of an Antibody Single-Chain Fv Fragmentâ€. Biochemistry, 1998, 37, 12918-12926.	2.5	144