Sebastian Pechmann

List of Publications by Year
in descending order

18	2,153	1051969 10	939365 18
papers	citations	h-index	g-index

24	24	24	3470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional network motifs defined through integration of protein-protein and genetic interactions. PeerJ, 2022, 10, e13016.	0.9	4
2	Inferring translational heterogeneity from Saccharomyces cerevisiae ribosome profiling. FEBS Journal, 2021, 288, 4541-4559.	2.2	2
3	Altered rRNA processing disrupts nuclear RNA homeostasis via competition for the poly(A)-binding protein Nab2. Nucleic Acids Research, 2020, 48, 11675-11694.	6.5	13
4	Programmed Trade-offs in Protein Folding Networks. Structure, 2020, 28, 1361-1375.e4.	1.6	4
5	Pervasive convergent evolution and extreme phenotypes define chaperone requirements of protein homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20009-20014.	3.3	14
6	Improvement of the memory function of a mutual repression network in a stochastic environment by negative autoregulation. BMC Bioinformatics, 2019, 20, 734.	1.2	1
7	Hsp90 shapes protein and RNA evolution to balance trade-offs between protein stability and aggregation. Nature Communications, 2018, 9, 1781.	5.8	64
8	Coping with stress by regulating tRNAs. Science Signaling, 2018, 11, .	1.6	2
9	Interplay between Chaperones and Protein Disorder Promotes the Evolution of Protein Networks. PLoS Computational Biology, 2014, 10, e1003674.	1.5	31
10	Local slowdown of translation by nonoptimal codons promotes nascent-chain recognition by SRP in vivo. Nature Structural and Molecular Biology, 2014, 21, 1100-1105.	3.6	202
11	The Cotranslational Function of Ribosome-Associated Hsp70 in Eukaryotic Protein Homeostasis. Cell, 2013, 152, 196-209.	13.5	240
12	Evolutionary conservation of codon optimality reveals hidden signatures of cotranslational folding. Nature Structural and Molecular Biology, 2013, 20, 237-243.	3.6	446
13	The Ribosome as a Hub for Protein Quality Control. Molecular Cell, 2013, 49, 411-421.	4.5	251
14	Principles of Cotranslational Ubiquitination and Quality Control at the Ribosome. Molecular Cell, 2013, 50, 379-393.	4.5	195
15	The Molecular Architecture of the Eukaryotic Chaperonin TRiC/CCT. Structure, 2012, 20, 814-825.	1.6	261
16	Derivation of a solubility condition for proteins from an analysis of the competition between folding and aggregation. Molecular BioSystems, 2010, 6, 2490.	2.9	9
17	Physicochemical principles that regulate the competition between functional and dysfunctional association of proteins. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10159-10164.	3.3	148
18	Life on the edge: a link between gene expression levels and aggregation rates of human proteins. Trends in Biochemical Sciences, 2007, 32, 204-206.	3.7	266