Markus Englert

List of Publications by Year in descending order

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22	1,354	430754	642610
papers	citations	18 h-index	23 g-index

24	24	24	1395
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HSPC117 Is the Essential Subunit of a Human tRNA Splicing Ligase Complex. Science, 2011, 331, 760-764.	6.0	215
2	Structure of pyrrolysyl-tRNA synthetase, an archaeal enzyme for genetic code innovation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11268-11273.	3.3	194
3	Structure-function analysis of the kinase-CPD domain of yeast tRNA ligase (Trl1) and requirements for complementation of tRNA splicing by a plant Trl1 homolog. Nucleic Acids Research, 2006, 34, 517-527.	6.5	137
4	Rewriting the Genetic Code. Annual Review of Microbiology, 2017, 71, 557-577.	2.9	131
5	Plant tRNA ligases are multifunctional enzymes that have diverged in sequence and substrate specificity from RNA ligases of other phylogenetic origins. Nucleic Acids Research, 2005, 33, 388-399.	6.5	107
6	Archaeal 3â€²-phosphate RNA splicing ligase characterization identifies the missing component in tRNA maturation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1290-1295.	3.3	100
7	Facile Recoding of Selenocysteine in Nature. Angewandte Chemie - International Edition, 2016, 55, 5337-5341.	7.2	54
8	Structural and mechanistic insights into guanylylation of RNA-splicing ligase RtcB joining RNA between 3â€²-terminal phosphate and 5â€²-OH. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15235-15240.	3.3	53
9	Plant pre-tRNA splicing enzymes are targeted to multiple cellular compartments. Biochimie, 2007, 89, 1351-1365.	1.3	51
10	Engineering the elongation factor Tu for efficient selenoprotein synthesis. Nucleic Acids Research, 2014, 42, 9976-9983.	6.5	49
11	Dual Functions of Yeast tRNA Ligase in the Unfolded Protein Response: Unconventional Cytoplasmic Splicing ofHAC1Pre-mRNA Is Not Sufficient to Release Translational Attenuation. Molecular Biology of the Cell, 2010, 21, 3722-3734.	0.9	39
12	Archaeal Tuc1/Ncs6 Homolog Required for Wobble Uridine tRNA Thiolation Is Associated with Ubiquitin-Proteasome, Translation, and RNA Processing System Homologs. PLoS ONE, 2014, 9, e99104.	1.1	32
13	Novel upstream and intragenic control elements for the RNA polymerase III-dependent transcription of human 7SL RNA genes. Biochimie, 2004, 86, 867-874.	1.3	28
14	Branchiostoma floridae has separate healing and sealing enzymes for 5â€²-phosphate RNA ligation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16834-16839.	3.3	28
15	Transfer RNAs with novel cloverleaf structures. Nucleic Acids Research, 2017, 45, gkw898.	6.5	26
16	Dual Genetic Encoding of Acetylâ€lysine and Nonâ€deacetylatable Thioacetylâ€lysine Mediated by Flexizyme. Angewandte Chemie - International Edition, 2016, 55, 4083-4086.	7.2	23
17	Probing the active site tryptophan ofStaphylococcus aureusthioredoxin with an analog. Nucleic Acids Research, 2015, 43, 11061-11067.	6.5	21
18	Mechanistic insight into protein modification and sulfur mobilization activities of noncanonical E1 and associated ubiquitinâ€like proteins of Archaea. FEBS Journal, 2016, 283, 3567-3586.	2.2	21

#	Article	IF	Citations
19	Aminoacylation of tRNA 2â€²â€•or 3â€²â€hydroxyl by phosphoserylâ€•and pyrrolysylâ€tRNA synthetases. FEBS Letters, 2013, 587, 3360-3364.	1.3	16
20	Plant 7SL RNA genes belong to type 4 of RNA polymerase III- dependent genes that are composed of mixed promoters. Plant Journal, 2005, 43, 97-106.	2.8	10
21	A genomically modified Escherichia coli strain carrying an orthogonal E. coli histidyl-tRNA synthetaseâ€¢tRNA His pair. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3009-3015.	1.1	8
22	Recoding of the selenocysteine UGA codon by cysteine in the presence of a non-canonical tRNA^{Cys}and elongation factor SelB. RNA Biology, 2018, 15, 471-479.	1.5	8