

# Markus Englert

## List of Publications by Citations

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23  
papers

1,050  
citations

16  
h-index

24  
g-index

24  
ext. papers

1,230  
ext. citations

11.6  
avg, IF

3.93  
L-index

#	Paper	IF	Citations
23	Structure of pyrrolysyl-tRNA synthetase, an archaeal enzyme for genetic code innovation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 11268-73	11.5	156
22	HSPC117 is the essential subunit of a human tRNA splicing ligase complex. <i>Science</i> , <b>2011</b> , 331, 760-4	33.3	155
21	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. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 517-27	20.1	124
20	Rewriting the Genetic Code. <i>Annual Review of Microbiology</i> , <b>2017</b> , 71, 557-577	17.5	90
19	Plant tRNA ligases are multifunctional enzymes that have diverged in sequence and substrate specificity from RNA ligases of other phylogenetic origins. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 388-99	20.1	88
18	Archaeal 3bphosphate RNA splicing ligase characterization identifies the missing component in tRNA maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1290-5	11.5	74
17	Plant pre-tRNA splicing enzymes are targeted to multiple cellular compartments. <i>Biochimie</i> , <b>2007</b> , 89, 1351-65	4.6	48
16	Facile Recoding of Selenocysteine in Nature. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5337-41	16.4	43
15	Engineering the elongation factor Tu for efficient selenoprotein synthesis. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 9976-83	20.1	39
14	Structural and mechanistic insights into guanylation of RNA-splicing ligase RtcB joining RNA between 3bterminal phosphate and 5bOH. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15235-40	11.5	36
13	Dual functions of yeast tRNA ligase in the unfolded protein response: unconventional cytoplasmic splicing of HAC1 pre-mRNA is not sufficient to release translational attenuation. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 3722-34	3.5	31
12	Novel upstream and intragenic control elements for the RNA polymerase III-dependent transcription of human 7SL RNA genes. <i>Biochimie</i> , <b>2004</b> , 86, 867-74	4.6	28
11	Archaeal Tuc1/Ncs6 homolog required for wobble uridine tRNA thiolation is associated with ubiquitin-proteasome, translation, and RNA processing system homologs. <i>PLoS ONE</i> , <b>2014</b> , 9, e99104	3.7	25
10	Branchiostoma floridae has separate healing and sealing enzymes for 5bphosphate RNA ligation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 16834-9	11.5	22
9	Mechanistic insight into protein modification and sulfur mobilization activities of noncanonical E1 and associated ubiquitin-like proteins of Archaea. <i>FEBS Journal</i> , <b>2016</b> , 283, 3567-3586	5.7	17
8	Transfer RNAs with novel cloverleaf structures. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 2776-2785	20.1	16
7	Dual Genetic Encoding of Acetyl-lysine and Non-deacetyltable Thioacetyl-lysine Mediated by Flexizyme. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4083-6	16.4	15

6	Probing the active site tryptophan of Staphylococcus aureus thioredoxin with an analog. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 11061-7	20.1	12
5	Aminoacylation of tRNA 2b or 3bhydroxyl by phosphoseryl- and pyrrolysyl-tRNA synthetases. <i>FEBS Letters</i> , <b>2013</b> , 587, 3360-4	3.8	11
4	Plant 7SL RNA genes belong to type 4 of RNA polymerase III- dependent genes that are composed of mixed promoters. <i>Plant Journal</i> , <b>2005</b> , 43, 97-106	6.9	10
3	Recoding of the selenocysteine UGA codon by cysteine in the presence of a non-canonical tRNA and elongation factor SelB. <i>RNA Biology</i> , <b>2018</b> , 15, 471-479	4.8	6
2	A genomically modified Escherichia coli strain carrying an orthogonal E. coli histidyl-tRNA synthetase-tRNA pair. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 3009-3015	4	3
1	Use of RNA Affinity Matrices for the Isolation of RNA Binding Proteins <b>2014</b> , 919-934		