

# Hans R Aerni

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2144318/publications.pdf>

Version: 2024-02-01

14  
papers

1,897  
citations

687363

13  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

2278  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomically Recoded Organisms Expand Biological Functions. <i>Science</i> , 2013, 342, 357-360.	12.6	721
2	A semi-synthetic organism that stores and retrieves increased genetic information. <i>Nature</i> , 2017, 551, 644-647.	27.8	262
3	Evolution of translation machinery in recoded bacteria enables multi-site incorporation of nonstandard amino acids. <i>Nature Biotechnology</i> , 2015, 33, 1272-1279.	17.5	234
4	Robust production of recombinant phosphoproteins using cell-free protein synthesis. <i>Nature Communications</i> , 2015, 6, 8168.	12.8	106
5	Enhanced phosphoserine insertion during <i>Escherichia coli</i> protein synthesis via partial UAG codon reassignment and release factor 1 deletion. <i>FEBS Letters</i> , 2012, 586, 3716-3722.	2.8	91
6	A flexible codon in genomically recoded <i>Escherichia coli</i> permits programmable protein phosphorylation. <i>Nature Communications</i> , 2015, 6, 8130.	12.8	86
7	The polycystins are modulated by cellular oxygen-sensing pathways and regulate mitochondrial function. <i>Molecular Biology of the Cell</i> , 2017, 28, 261-269.	2.1	73
8	Chemical Evolution of a Bacterial Proteome. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10030-10034.	13.8	71
9	Revealing the amino acid composition of proteins within an expanded genetic code. <i>Nucleic Acids Research</i> , 2015, 43, e8-e8.	14.5	68
10	An engineered IL-2 reprogrammed for anti-tumor therapy using a semi-synthetic organism. <i>Nature Communications</i> , 2021, 12, 4785.	12.8	62
11	PKC $\mu$ contributes to lipid-induced insulin resistance through cross talk with p70S6K and through previously unknown regulators of insulin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8996-E9005.	7.1	51
12	MS-READ: Quantitative measurement of amino acid incorporation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3081-3088.	2.4	35
13	Editing of misaminoacylated tRNA controls the sensitivity of amino acid stress responses in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2017, 45, 3985-3996.	14.5	29
14	Distinct Hepatic PKA and CDK Signaling Pathways Control Activity-Independent Pyruvate Kinase Phosphorylation and Hepatic Glucose Production. <i>Cell Reports</i> , 2019, 29, 3394-3404.e9.	6.4	8