Paul F Agris

List of Publications by Year
in descending order

46	3,990	218677	233421
papers	citations	26 h-index	45 g-index

48	48	48	3530
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physical Chemistry of a Single tRNA-Modified Nucleoside Regulates Decoding of the Synonymous Lysine Wobble Codon and Affects Type 2 Diabetes. Journal of Physical Chemistry B, 2022, 126, 1168-1177.	2.6	6
2	A New Promising Anti-Infective Agent Inhibits Biofilm Growth by Targeting Simultaneously a Conserved RNA Function That Controls Multiple Genes. Antibiotics, 2021, 10, 41.	3.7	6
3	Small-Molecule Antibiotics Inhibiting tRNA-Regulated Gene Expression Is a Viable Strategy for Targeting Gram-Positive Bacteria. Antimicrobial Agents and Chemotherapy, 2020, 65, .	3.2	4
4	A Structural Basis for Restricted Codon Recognition Mediated by 2-thiocytidine in tRNA Containing a Wobble Position Inosine. Journal of Molecular Biology, 2020, 432, 913-929.	4.2	12
5	Discovery of Smallâ€Molecule Antibiotics against a Unique tRNAâ€Mediated Regulation of Transcription in Gramâ€Positive Bacteria. ChemMedChem, 2019, 14, 758-769.	3.2	19
6	TET1â€Mediated Oxidation of 5â€Formylcytosine (5fC) to 5â€Carboxycytosine (5caC) in RNA. ChemBioChem, 2017, 18, 72-76.	2.6	36
7	Chemical and Conformational Diversity of Modified Nucleosides Affects tRNA Structure and Function. Biomolecules, 2017, 7, 29.	4.0	104
8	Post-Transcriptional Modifications of RNA: Impact on RNA Function and Human Health. RNA Technologies, 2016, , 91-130.	0.3	4
9	The importance of being modified: an unrealized code to RNA structure and function. Rna, 2015, 21, 552-554.	3.5	33
10	NMR-based Structural Analysis of Threonylcarbamoyl-AMP Synthase and Its Substrate Interactions. Journal of Biological Chemistry, 2015, 290, 20032-20043.	3.4	13
11	Amino Acid Signature Enables Proteins to Recognize Modified tRNA. Biochemistry, 2014, 53, 1125-1133.	2.5	28
12	Human tRNALys3UUU Is Pre-Structured by Natural Modifications for Cognate and Wobble Codon Binding through Ketoâ€“Enol Tautomerism. Journal of Molecular Biology, 2012, 416, 467-485.	4.2	103
13	Modifications Modulate Anticodon Loop Dynamics and Codon Recognition of E. coli tRNAArg1,2. Journal of Molecular Biology, 2012, 416, 579-597.	4.2	29
14	The RNA modification database, RNAMDB: 2011 update. Nucleic Acids Research, 2011, 39, D195-D201.	14.5	701
15	The structure of the human tRNALys3 anticodon bound to the HIV genome is stabilized by modified nucleosides and adjacent mismatch base pairs. Nucleic Acids Research, 2009, 37, 3342-3353.	14.5	49
16	Bringing order to translation: the contributions of transfer RNA anticodonâ€domain modifications. EMBO Reports, 2008, 9, 629-635.	4.5	194
17	tRNA's modifications bring order to gene expression. Current Opinion in Microbiology, 2008, 11, 134-140.	5.1	213
18	Anticodon Domain Modifications Contribute Order to tRNA for Ribosome-Mediated Codon Binding. Biochemistry, 2008, 47, 6117-6129.	2.5	42

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19	Synthesis and investigation of the 5-formylcytidine modified, anticodon stem and loop of the human mitochondrial tRNAMet. Nucleic Acids Research, 2008, 36, 6548-6557.	14.5	50
20	Mechanism for expanding the decoding capacity of transfer RNAs by modification of uridines. Nature Structural and Molecular Biology, 2007, 14, 498-502.	8.2	168
21	tRNAâ€™s Wobble Decoding of the Genome: 40 Years of Modification. Journal of Molecular Biology, 2007, 366, 1-13.	4.2	458
22	tRNA regulation of gene expression: Interactions of an mRNA 5'-UTR with a regulatory tRNA. Rna, 2006, 12, 1254-1261.	3.5	29
23	Decoding the genome: a modified view. Nucleic Acids Research, 2004, 32, 223-238.	14.5	302
24	The role of modifications in codon discrimination by tRNALysUUU. Nature Structural and Molecular Biology, 2004, 11, 1186-1191.	8.2	304
25	Modified Nucleotides in tRNALys and tRNAVal are Important for Translocation. Journal of Molecular Biology, 2004, 338, 439-444.	4.2	57
26	Naturally-occurring Modification Restricts the Anticodon Domain Conformational Space of tRNA Phe. Journal of Molecular Biology, 2003, 334, 901-918.	4.2	69
27	Accurate Translation of the Genetic Code Depends on tRNA Modified Nucleosides. Journal of Biological Chemistry, 2002, 277, 16391-16395.	3.4	216
28	Role of Modified Nucleosides of Yeast tRNA^{Phe} in Ribosomal Binding. Cell Biochemistry and Biophysics, 2000, 33, 241-252.	1.8	32
29	Synthesis and Properties of Uniquely Modified Oligoribonucleotides: Yeast Trna^{Phe}Fragments with 6-Methyluridine and 5,6-Dimethyluridine at Site-Specific Positions. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 515-531.	1.1	6
30	Modified Nucleoside Dependent Watsonâ"Crick and Wobble Codon Binding by tRNALysUUU Species. Biochemistry, 2000, 39, 13390-13395.	2.5	98
31	Functional Anticodon Architecture of Human tRNALys3 Includes Disruption of Intraloop Hydrogen Bonding by the Naturally Occurring Amino Acid Modification, t6A. Biochemistry, 2000, 39, 13396-13404.	2.5	109
32	Single atom modification (O â†' S) of tRNA confers ribosome binding. Rna, 1999, 5, 188-194.	3.5	119
33	Orientation of the tRNA anticodon in the ribosomal P-site: Quantitative footprinting with U33-modified, anticodon stem and loop domains. Rna, 1999, 5, 1191-1199.	3.5	9
34	The uridine in â€œU-turnâ€• Contributions to tRNA-ribosomal binding. Rna, 1999, 5, 503-511.	3.5	47
35	Experimental models of protein-RNA interaction: isolation and analyses of tRNA(Phe) and U1 snRNA-binding peptides from bacteriophage display libraries. The Protein Journal, 1999, 18, 425-435.	1.1	24
36	Ribosome-independent anticodon to codon binding assessed by circular dichroism: Roles of base modifications, Mg2+ and 2â€²OH. Biospectroscopy, 1996, 2, 205-217.	0.6	3

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37	NMR and Paramagnetic Ion Substitution Locates a Modified-Nucleoside Dependent Metal Binding Site in DNA: Molecular Dynamics, Surface Charge and H2O Ordering. Magnetic Resonance in Chemistry, 1996, 34, S87-S96.	1.9	0
38	Structure of the Trinucleotide D-acp³U-A with Coordinated Mg²⁺Demonstrates that Modified Nucleosides Contribute to Regional Conformations of RNA. Nucleosides & Nucleotides, 1996, 15, 1009-1028.	0.5	18
39	Modified nucleoside-dependent transition metal binding to DNA analogs of the tRNA anticodon stem/loop domain. BioMetals, 1995, 8, 290-6.	4.1	3
40	RNA Modified Uridines VII: Chemical Synthesis and Initial Analysis of tRNA D-Loop Oligomers with Tandem Modified Uridines. Nucleosides & Nucleotides, 1995, 14, 143-165.	0.5	7
41	Immunochemical Analysis of an Arginine-Rich Systemic Lupus Erythematosus Autoepitope. Autoimmunity, 1993, 15, 231-236.	2.6	10
42	Anti-Sm Autoantibodies of Systemic Lupus Erythematosus Cross React with Dietary Plant Proteins. Immunological Investigations, 1992, 21, 193-202.	2.0	5
43	RNA Modified Uridines VI: Conformations of 3-[3-(S)-Amino-3-Carboxypropyl]Uridine (acp3U) from tRNA and 1-Methyl-3-[3-(S)-Amino-3-Carboxypropyl]Pseudouridine (m1acp3Ï) from rRNA. Nucleosides & Nucleotides, 1992, 11, 1683-1694.	0.5	8
44	Solution structure of a synthetic peptide corresponding to a receptor binding region of FSH (hFSH-Î²) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	20
45	Chemistry and structure of modified uridines in the anticodon, wobble position of transfer RNA are determined by thiolation. Journal of the American Chemical Society, 1987, 109, 7171-7177.	13.7	116
46	Biological function of 2-thiouridine in Escherichia coli glutamic acid transfer ribonucleic acid. Biochemistry, 1973, 12, 4331-4337.	2.5	107