Hieronim Jakubowski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 201
 7,756
 49
 79

 papers
 citations
 h-index
 g-index

 208
 8,381
 5.4
 6.63

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
201	Neuroprotective Effects of Cranberry Juice Treatment in a Rat Model of Parkinson Disease. Nutrients, 2022, 14, 2014	6.7	O
200	B Vitamins Prevent Iron-Associated Brain Atrophy and Domain-Specific Effects of Iron, Copper, Aluminum, and Silicon on Cognition in Mild Cognitive Impairment. <i>Journal of Alzheimerh Disease</i> , 2021 , 84, 1039-1055	4.3	1
199	Proteome-Wide Analysis of Protein Lysine -Homocysteinylation in. <i>Journal of Proteome Research</i> , 2021 , 20, 2458-2476	5.6	1
198	Changes in redox plasma proteome of Pon1-/- mice are exacerbated by a hyperhomocysteinemic diet. <i>Free Radical Biology and Medicine</i> , 2021 , 169, 169-180	7.8	0
197	Paraoxonase 1, B Vitamins Supplementation, and Mild Cognitive Impairment. <i>Journal of Alzheimerl</i> s <i>Disease</i> , 2021 , 81, 1211-1229	4.3	4
196	Copper, heart disease and homocysteine thiolactone. <i>Journal of Internal Medicine</i> , 2021 , 290, 229-230	10.8	0
195	Antihomocysteine-protein autoantibodies are associated with impaired cognition. <i>Alzheimerl</i> s and <i>Dementia: Translational Research and Clinical Interventions</i> , 2021 , 7, e12159	6	3
194	The Cbs Locus Affects the Expression of Senescence Markers and mtDNA Copy Number, but not Telomere Dynamics in Mice. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
193	Quantification of homocysteine thiolactone in human saliva and urine by gas chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1149, 122155	3.2	5
192	Filaggrin Expression and Processing Deficiencies Impair Corneocyte Surface Texture and Stiffness in Mice. <i>Journal of Investigative Dermatology</i> , 2020 , 140, 615-623.e5	4.3	15
191	Cystathionine	4.9	5
190	Genetic Attenuation of Paraoxonase 1 Activity Induces Proatherogenic Changes in Plasma Proteomes of Mice and Humans. <i>Antioxidants</i> , 2020 , 9,	7.1	4
189	Telomere length and mtDNA copy number in human cystathionine	7.8	
188	Proteomic exploration of cystathionine 最ynthase deficiency: implications for the clinic. <i>Expert Review of Proteomics</i> , 2020 , 17, 751-765	4.2	3
187	The Multispecies Probiotic Effectively Reduces Homocysteine Concentration in Obese Women: A Randomized Double-Blind Placebo-Controlled Study. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	10
186	Sex affects N-homocysteinylation at lysine residue 212 of albumin in mice. <i>Scientific Reports</i> , 2019 , 9, 2669	4.9	4
185	Dysregulation of Epigenetic Mechanisms of Gene Expression in the Pathologies of Hyperhomocysteinemia. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	31

(2016-2019)

184	Serum Proteome Alterations in Human Cystathionine Synthase Deficiency and Ischemic Stroke Subtypes. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
183	Urinary excretion of homocysteine thiolactone and the risk of acute myocardial infarction in coronary artery disease patients: the WENBIT trial. <i>Journal of Internal Medicine</i> , 2019 , 285, 232-244	10.8	24
182	Homocysteine Modification in Protein Structure/Function and Human Disease. <i>Physiological Reviews</i> , 2019 , 99, 555-604	47.9	82
181	Protein N-Homocysteinylation and Colorectal Cancer. <i>Trends in Cancer</i> , 2019 , 5, 7-10	12.5	6
180	Demethylation of methionine and keratin damage in human hair. <i>Amino Acids</i> , 2018 , 50, 537-546	3.5	8
179	Garlic extract favorably modifies markers of endothelial function in obese patients -randomized double blind placebo-controlled nutritional intervention. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 102, 792-797	7.5	26
178	Paraoxonase 1 Q192R genotype and activity affect homocysteine thiolactone levels in humans. <i>FASEB Journal</i> , 2018 , 32, fj201800346R	0.9	15
177	Mutations in Homocysteine Metabolism Genes Increase Keratin -Homocysteinylation and Damage in Mice. <i>International Journal of Genomics</i> , 2018 , 2018, 7570850	2.5	2
176	The amino acid metabolite homocysteine activates mTORC1 to inhibit autophagy and form abnormal proteins in human neurons and mice. <i>FASEB Journal</i> , 2017 , 31, 598-609	0.9	32
175	Homocysteine Editing, Thioester Chemistry, Coenzyme A, and the Origin of Coded Peptide Synthesis []Life, 2017 , 7,	3	19
174	N-Homocysteinylation impairs collagen cross-linking in cystathionine 最ynthase-deficient mice: a novel mechanism of connective tissue abnormalities. <i>FASEB Journal</i> , 2016 , 30, 3810-3821	0.9	25
173	Simultaneous Determination of Methionine and Homocysteine by on-column derivatization with o-phtaldialdehyde. <i>Talanta</i> , 2016 , 161, 917-924	6.2	21
172	Quantification of urinary S- and N-homocysteinylated protein and homocysteine-thiolactone in mice. <i>Analytical Biochemistry</i> , 2016 , 508, 118-23	3.1	13
171	Quantification of homocysteine and cysteine by derivatization with pyridoxal 5'-phosphate and hydrophilic interaction liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 1935-4	4.4	14
170	Effects of endurance and endurance-strength exercise on biochemical parameters of liver function in women with abdominal obesity. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 80, 1-7	7.5	25
169	Methylfolate Trap Promotes Bacterial Thymineless Death by Sulfa Drugs. <i>PLoS Pathogens</i> , 2016 , 12, e10	0 959 49	9 24
168	Protective mechanisms against protein damage in hyperhomocysteinemia: Systemic and renal detoxification of homocysteine-thiolactone 2016 , 1, 40-43		5
167	Effects of Endurance and Endurance-strength Exercise on Renal Function in Abdominally Obese Women with Renal Hyperfiltration: A Prospective Randomized Trial. <i>Biomedical and Environmental Sciences</i> , 2016 , 29, 706-712	1.1	17

166	Aminoacyl-tRNA synthetases and the evolution of coded peptide synthesis: the Thioester World. <i>FEBS Letters</i> , 2016 , 590, 469-81	3.8	12
165	Homocysteine thiolactone and N-homocysteinylated protein induce pro-atherogenic changes in gene expression in human vascular endothelial cells. <i>Amino Acids</i> , 2015 , 47, 1319-39	3.5	60
164	L-Arginine and vitamin C attenuate pro-atherogenic effects of high-fat diet on biomarkers of endothelial dysfunction in rats. <i>Biomedicine and Pharmacotherapy</i> , 2015 , 76, 100-6	7·5	11
163	The nomenclature of 1-aminoalkylphosphonic acids and derivatives: evolution of the code system. <i>Acta Biochimica Polonica</i> , 2015 , 62, 139-50	2	13
162	Abstract 19250: Urinary Homocysteine Thiolactone Predicts Acute Myocardial Infarction in a Randomized Controlled Homocysteine-lowering B-vitamin Trial. <i>Circulation</i> , 2015 , 132,	16.7	6
161	Paraoxonase 1 deficiency and hyperhomocysteinemia alter the expression of mouse kidney proteins involved in renal disease. <i>Molecular Genetics and Metabolism</i> , 2014 , 113, 200-6	3.7	11
160	Labeled EF-Tus for rapid kinetic studies of pretranslocation complex formation. <i>ACS Chemical Biology</i> , 2014 , 9, 2421-31	4.9	3
159	Bleomycin hydrolase and hyperhomocysteinemia modulate the expression of mouse proteins involved in liver homeostasis. <i>Amino Acids</i> , 2014 , 46, 1471-80	3.5	11
158	Methionine-induced hyperhomocysteinemia and bleomycin hydrolase deficiency alter the expression of mouse kidney proteins involved in renal disease. <i>Molecular Genetics and Metabolism</i> , 2014 , 112, 339-46	3.7	12
157	Inactivation of the paraoxonase 1 gene affects the expression of mouse brain proteins involved in neurodegeneration. <i>Journal of Alzheimerh</i> Disease, 2014 , 42, 247-60	4.3	10
156	The influence of selected antihypertensive drugs on zinc, copper, and iron status in spontaneously hypertensive rats. <i>European Journal of Pharmacology</i> , 2014 , 738, 326-31	5.3	6
155	Hyperhomocysteinemia and bleomycin hydrolase modulate the expression of mouse brain proteins involved in neurodegeneration. <i>Journal of Alzheimerh</i> Disease, 2014 , 40, 713-26	4.3	29
154	Identification of N-homocysteinylation sites in plasma proteins. <i>Amino Acids</i> , 2014 , 46, 235-44	3.5	30
153	Paraoxonase 1 and dietary hyperhomocysteinemia modulate the expression of mouse proteins involved in liver homeostasis <i>Acta Biochimica Polonica</i> , 2014 , 61,	2	7
152	Paraoxonase 1 and dietary hyperhomocysteinemia modulate the expression of mouse proteins involved in liver homeostasis. <i>Acta Biochimica Polonica</i> , 2014 , 61, 815-23	2	3
151	Design and properties of efficient tRNA:EF-Tu FRET system for studies of ribosomal translation. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 347-57	1.9	3
150	Effects of betaine on body composition, performance, and homocysteine thiolactone. <i>Journal of the International Society of Sports Nutrition</i> , 2013 , 10, 39	4.5	45
149	Homocysteine in Protein Structure/Function and Human Disease 2013,		19

148 Homocysteine-Thiolactone 2013, 19-53 7 Discoveries of Protein S- and N-Homocysteinylation 2013, 55-57 S-Homocysteinylated Proteins 2013, 121-135 146 The Mechanism and Consequences of Homocysteine Incorporation Into Protein in Humans. 145 Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 384-395 An Overview of Homocysteine Metabolism 2013, 7-18 2 144 Pathophysiological Consequences of Protein N-Homocysteinylation 2013, 107-119 143 N-Homocysteinyl-Proteins 2013, 59-105 142 Paraoxonase 1 and homocysteine metabolism. Amino Acids, 2012, 43, 1405-17 141 3.5 75 N-homocysteinylation of ovine prion protein induces amyloid-like transformation. Archives of 140 4.1 20 Biochemistry and Biophysics, 2012, 526, 29-37 Metabolism and neurotoxicity of homocysteine thiolactone in mice: protective role of bleomycin 139 3.5 33 hydrolase. Amino Acids, 2012, 43, 1339-48 Quality control in tRNA charging. Wiley Interdisciplinary Reviews RNA, 2012, 3, 295-310 138 9.3 55 Metabolism and neurotoxicity of homocysteine thiolactone in mice: evidence for a protective role 137 4.3 47 of paraoxonase 1. Journal of Alzheimerls Disease, 2012, 30, 225-31 Effect of 9p21.3 coronary artery disease locus neighboring genes on atherosclerosis in mice. 136 16.7 35 Circulation, **2012**, 126, 1896-906 Plasma total homocysteine is a determinant of carotid intima-media thickness and circulating endothelial progenitor cells in patients with newly diagnosed hypertension. Clinical Chemistry and 135 5.9 20 *Laboratory Medicine*, **2012**, 50, 1107-13 Chemical biology of homocysteine thiolactone and related metabolites. Advances in Clinical 5.8 48 134 Chemistry, **2011**, 55, 81-103 An on-column derivatization method for the determination of homocysteine-thiolactone and 133 3.5 39 protein N-linked homocysteine. Amino Acids, 2011, 41, 187-94 Cation exchange HPLC analysis of desmosines in elastin hydrolysates. Analytical and Bioanalytical 132 4.4 7 Chemistry, 2011, 401, 2473-9 Aggregation and structural changes of (51)-, <code>Hand</code> Ecaseins induced by homocysteinylation. 131 Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1234-45

130	Analysis of site-specific N-homocysteinylation of human serum albumin in vitro and in vivo using MALDI-ToF and LC-MS/MS mass spectrometry. <i>Journal of Proteomics</i> , 2011 , 74, 967-74	3.9	24
129	Elevated concentrations of Ne-homocysteinyl-lysine isopeptide in acute myocardial infarction: links with ADMA formation. <i>Clinical Chemistry and Laboratory Medicine</i> , 2011 , 49, 729-35	5.9	13
128	Quality control in tRNA charging editing of homocysteine Acta Biochimica Polonica, 2011, 58,	2	37
127	Quality control in tRNA charging editing of homocysteine. <i>Acta Biochimica Polonica</i> , 2011 , 58, 149-63	2	18
126	Modulation of paraoxonase 1 and protein N-homocysteinylation by leptin and the synthetic liver X receptor agonist T0901317 in the rat. <i>Journal of Endocrinology</i> , 2010 , 204, 191-8	4.7	19
125	Properties of Escherichia coli EF-Tu mutants designed for fluorescence resonance energy transfer from tRNA molecules. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 129-36	1.9	8
124	Paraoxonase 1 protects against protein N-homocysteinylation in humans. FASEB Journal, 2010, 24, 931-	6 0.9	66
123	Reduced homocysteine-thiolactonase activity in Alzheimer's disease. <i>Journal of Alzheimerh</i> Disease, 2010 , 19, 1177-83	4.3	32
122	The role of paraoxonase 1 in the detoxification of homocysteine thiolactone. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 660, 113-27	3.6	40
121	On-column derivatization with o-phthaldialdehyde for fast determination of homocysteine in human urine. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2363-6	4.4	13
120	Identification and origin of NEhomocysteinyl-lysine isopeptide in humans and mice. <i>Amino Acids</i> , 2010 , 39, 1563-9	3.5	19
119	Direct monitoring of albumin lysine-525 N-homocysteinylation in human serum by liquid chromatography/mass spectrometry. <i>Analytical Biochemistry</i> , 2010 , 405, 132-4	3.1	24
118	Genetic or nutritional disorders in homocysteine or folate metabolism increase protein N-homocysteinylation in mice. <i>FASEB Journal</i> , 2009 , 23, 1721-7	0.9	82
117	Role of homocysteine in aortic calcification and osteogenic cell differentiation. <i>Atherosclerosis</i> , 2009 , 202, 557-66	3.1	43
116	Homocysteine editing and growth inhibition in Escherichia coli. <i>Microbiology (United Kingdom)</i> , 2009 , 155, 1858-1865	2.9	15
115	Paraoxonase 1 (PON1), A Junction Between the Metabolisms of Homocysteine and Lipids 2008 , 87-102		2
114	Plasma homocysteine is a determinant of tissue necrosis factor-alpha in hypertensive patients. <i>Biomedicine and Pharmacotherapy</i> , 2008 , 62, 360-5	7.5	27
113	Immunohistochemical detection of N-homocysteinylated proteins in humans and mice. <i>Biomedicine</i> and Pharmacotherapy, 2008 , 62, 473-9	7.5	44

(2006-2008)

112	Mutations in cystathionine beta-synthase or methylenetetrahydrofolate reductase gene increase N-homocysteinylated protein levels in humans. <i>FASEB Journal</i> , 2008 , 22, 4071-6	0.9	72
111	Fluorescence enhancement on silver nanostructures: studies of components of ribosomal translation in vitro 2008 ,		2
110	New method for the determination of protein N-linked homocysteine. <i>Analytical Biochemistry</i> , 2008 , 380, 257-61	3.1	56
109	The pathophysiological hypothesis of homocysteine thiolactone-mediated vascular disease. <i>Journal of Physiology and Pharmacology</i> , 2008 , 59 Suppl 9, 155-67	2.1	49
108	Modification by homocysteine thiolactone affects redox status of cytochrome C. <i>Biochemistry</i> , 2007 , 46, 6225-31	3.2	51
107	The molecular basis of homocysteine thiolactone-mediated vascular disease. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007 , 45, 1704-16	5.9	73
106	Facile syntheses of [35S]homocysteine-thiolactone, [35S]homocystine, [35S]homocysteine, and [S-nitroso-35S]homocysteine. <i>Analytical Biochemistry</i> , 2007 , 370, 124-6	3.1	15
105	Mechanisms of homocysteine toxicity in humans. <i>Amino Acids</i> , 2007 , 32, 561-72	3.5	218
104	Differential regulation of homocysteine transport in vascular endothelial and smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1976-83	9.4	26
103	Mutations in methylenetetrahydrofolate reductase or cystathionine beta-synthase gene, or a high-methionine diet, increase homocysteine thiolactone levels in humans and mice. <i>FASEB Journal</i> , 2007 , 21, 1707-13	0.9	92
102	Prevention of brain disease from severe 5,10-methylenetetrahydrofolate reductase deficiency. <i>Molecular Genetics and Metabolism</i> , 2007 , 91, 165-75	3.7	89
101	Mechanism of the condensation of homocysteine thiolactone with aldehydes. <i>Chemistry - A European Journal</i> , 2006 , 12, 8039-43	4.8	41
100	Letter by Undas and Jakubowski regarding article, "Relationship between homocysteine and mortality in chronic kidney disease". <i>Circulation</i> , 2006 , 114, e547; author reply e548	16.7	35
99	Protective mechanisms against homocysteine toxicity: the role of bleomycin hydrolase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22485-92	5.4	65
98	Synergistic, random sequential binding of substrates in cobalamin-independent methionine synthase. <i>Biochemistry</i> , 2006 , 45, 5083-91	3.2	13
97	Plasma homocysteine affects fibrin clot permeability and resistance to lysis in human subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 1397-404	9.4	92
96	Folic acid administration and antibodies against homocysteinylated proteins in subjects with hyperhomocysteinemia. <i>Thrombosis and Haemostasis</i> , 2006 , 96, 342-7	7	39
95	Pathophysiological consequences of homocysteine excess. <i>Journal of Nutrition</i> , 2006 , 136, 1741S-1749	S 4.1	155

94	The correlation of homocysteine-thiolactonase activity of the paraoxonase (PON1) protein with coronary heart disease status. <i>Cellular and Molecular Biology</i> , 2006 , 52, 4-10	1.1	26
93	Urinary excretion of homocysteine-thiolactone in humans. <i>Clinical Chemistry</i> , 2005 , 51, 408-15	5.5	70
92	Transfer RNA Synthetase Editing of Amino Acids 2005 ,		4
91	The determination of homocysteine-thiolactone in human plasma. <i>Analytical Biochemistry</i> , 2005 , 337, 271-7	3.1	101
90	Anti-N-homocysteinylated protein autoantibodies and cardiovascular disease. <i>Clinical Chemistry and Laboratory Medicine</i> , 2005 , 43, 1011-4	5.9	57
89	Antibodies to N-homocysteinylated albumin as a marker for early-onset coronary artery disease in men. <i>Thrombosis and Haemostasis</i> , 2005 , 93, 346-50	7	54
88	Cross-talk between Cys34 and lysine residues in human serum albumin revealed by N-homocysteinylation. <i>Journal of Biological Chemistry</i> , 2004 , 279, 10864-71	5.4	92
87	Autoantibodies against N-homocysteinylated proteins in humans: implications for atherosclerosis. <i>Stroke</i> , 2004 , 35, 1299-304	6.7	112
86	The effects of age and hyperhomocysteinemia on the redox forms of plasma thiols. <i>Translational Research</i> , 2004 , 144, 235-45		33
85	Molecular basis of homocysteine toxicity in humans. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 470-6	8 7 10.3	194
84	Purification of antibodies against N-homocysteinylated proteins by affinity chromatography on Nomega-homocysteinyl-aminohexyl-Agarose. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 807, 257-61	3.2	14
83	Determinants of homocysteine-thiolactonase activity of the paraoxonase-1 (PON1) protein in humans. <i>Cellular and Molecular Biology</i> , 2004 , 50, 885-93	1.1	20
82	Homocysteine-thiolactone and S-nitroso-homocysteine mediate incorporation of homocysteine into protein in humans. <i>Clinical Chemistry and Laboratory Medicine</i> , 2003 , 41, 1462-6	5.9	44
81	Metabolism of homocysteine-thiolactone in plants. <i>Journal of Biological Chemistry</i> , 2003 , 278, 6765-70	5.4	18
80	The determination of homocysteine-thiolactone in biological samples. <i>Analytical Biochemistry</i> , 2002 , 308, 112-9	3.1	79
79	Homocysteine is a protein amino acid in humans. Implications for homocysteine-linked disease. <i>Journal of Biological Chemistry</i> , 2002 , 277, 30425-8	5.4	131
78	Genomic association/linkage of sodium lithium countertransport in CEPH pedigrees. <i>Hypertension</i> , 2002 , 40, 619-28	8.5	25
77	Transfer RNA Synthetase Proofreading of Amino Acids 2001 ,		1

(1996-2001)

76	Translational accuracy of aminoacyl-tRNA synthetases: implications for atherosclerosis. <i>Journal of Nutrition</i> , 2001 , 131, 2983S-7S	4.1	46
75	Yeast cytoplasmic and mitochondrial methionyl-tRNA synthetases: two structural frameworks for identical functions. <i>Journal of Molecular Biology</i> , 2001 , 311, 205-16	6.5	23
74	Protein N-homocysteinylation: implications for atherosclerosis. <i>Biomedicine and Pharmacotherapy</i> , 2001 , 55, 443-7	7.5	61
73	Genetic determinants of homocysteine thiolactonase activity in humans: implications for atherosclerosis. <i>FEBS Letters</i> , 2001 , 491, 35-9	3.8	78
72	Homocysteine thiolactone: metabolic origin and protein homocysteinylation in humans. <i>Journal of Nutrition</i> , 2000 , 130, 377S-381S	4.1	179
71	Calcium-dependent human serum homocysteine thiolactone hydrolase. A protective mechanism against protein N-homocysteinylation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 3957-62	5.4	293
7º	Homocysteine thiolactone and protein homocysteinylation in human endothelial cells: implications for atherosclerosis. <i>Circulation Research</i> , 2000 , 87, 45-51	15.7	236
69	Amino acid selectivity in the aminoacylation of coenzyme A and RNA minihelices by aminoacyl-tRNA synthetases. <i>Journal of Biological Chemistry</i> , 2000 , 275, 34845-8	5.4	16
68	Translational incorporation of S-nitrosohomocysteine into protein. <i>Journal of Biological Chemistry</i> , 2000 , 275, 21813-6	5.4	49
67	Protein homocysteinylation: possible mechanism underlying pathological consequences of elevated homocysteine levels. <i>FASEB Journal</i> , 1999 , 13, 2277-2283	0.9	300
66	Misacylation of tRNALys with noncognate amino acids by lysyl-tRNA synthetase. <i>Biochemistry</i> , 1999 , 38, 8088-93	3.2	58
65	Protein homocysteinylation: possible mechanism underlying pathological consequences of elevated homocysteine levels. <i>FASEB Journal</i> , 1999 , 13, 2277-83	0.9	80
64	Aminoacylation of coenzyme A and pantetheine by aminoacyl-tRNA synthetases: possible link between noncoded and coded peptide synthesis. <i>Biochemistry</i> , 1998 , 37, 5147-53	3.2	40
63	Aminoacyl thioester chemistry of class II aminoacyl-tRNA synthetases. <i>Biochemistry</i> , 1997 , 36, 11077-85	3.2	59
62	Metabolism of Homocysteine Thiolactone in Human Cell Cultures. <i>Journal of Biological Chemistry</i> , 1997 , 272, 1935-1942	5.4	215
61	Synthesis of Homocysteine Thiolactone in Normal and Malignant Cells. <i>Developments in Cardiovascular Medicine</i> , 1997 , 157-165		6
60	Metabolism of homocysteine thiolactone in human cell cultures. Possible mechanism for pathological consequences of elevated homocysteine levels. <i>Journal of Biological Chemistry</i> , 1997 , 272, 1935-42	5.4	173
59	The synthetic/editing active site of an aminoacyl-tRNA synthetase: evidence for binding of thiols in the editing subsite. <i>Biochemistry</i> , 1996 , 35, 8252-9	3.2	28

58	Proofreading in trans by an aminoacyl-tRNA synthetase: a model for single site editing by isoleucyl-tRNA synthetase. <i>Nucleic Acids Research</i> , 1996 , 24, 2505-10	20.1	11
57	Royal academy of medicine in Ireland international conference on homocysteine metabolism from basic science to clinical medicine. <i>Irish Journal of Medical Science</i> , 1995 , 164, 56-83	1.9	
56	Proofreading in Vivo. Journal of Biological Chemistry, 1995, 270, 17672-17673	5.4	43
55	Evidence that uncharged tRNA can inhibit a programmed translational frameshift in Escherichia coli. <i>Journal of Molecular Biology</i> , 1995 , 251, 210-6	6.5	9
54	Synthesis of cysteine-containing dipeptides by aminoacyl-tRNA synthetases. <i>Nucleic Acids Research</i> , 1995 , 23, 4608-15	20.1	19
53	Proofreading in vivo. Editing of homocysteine by aminoacyl-tRNA synthetases in Escherichia coli. Journal of Biological Chemistry, 1995 , 270, 17672-3	5.4	9
52	Energy cost of translational proofreading in vivo. The aminoacylation of transfer RNA in Escherichia coli. <i>Annals of the New York Academy of Sciences</i> , 1994 , 745, 4-20	6.5	10
51	Editing function of Escherichia coli cysteinyl-tRNA synthetase: cyclization of cysteine to cysteine thiolactone. <i>Nucleic Acids Research</i> , 1994 , 22, 1155-60	20.1	13
50	Role of carboxy-terminal region in proofreading function of methionyl-tRNA synthetase in Escherichia coli. <i>Biochemistry</i> , 1994 , 33, 11528-35	3.2	25
49	The relationship between synthetic and editing functions of the active site of an aminoacyl-tRNA synthetase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 11553-7	11.5	54
48	Energy cost of proofreading in vivo: the charging of methionine tRNAs in Escherichia coli. <i>FASEB Journal</i> , 1993 , 7, 168-72	0.9	14
47	Methionine-mediated lethality in yeast cells at elevated temperature. <i>Journal of Bacteriology</i> , 1993 , 175, 5469-76	3.5	15
46	Synthesis of homocysteine thiolactone by methionyl-tRNA synthetase in cultured mammalian cells. <i>FEBS Letters</i> , 1993 , 317, 237-40	3.8	100
45	Proofreading and the evolution of a methyl donor function. Cyclization of methionine to S-methyl homocysteine thiolactone by Escherichia coli methionyl-tRNA synthetase. <i>Journal of Biological Chemistry</i> , 1993 , 268, 6549-53	5.4	15
44	Proofreading and the evolution of a methyl donor function. Cyclization of methionine to S-methyl homocysteine thiolactone by Escherichia coli methionyl-tRNA synthetase <i>Journal of Biological Chemistry</i> , 1993 , 268, 6549-6553	5.4	14
43	Role of the metF and metJ genes on the vitamin B12 regulation of methionine gene expression: involvement of N5-methyltetrahydrofolic acid. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 182, 651-8	3.4	8
42	Editing of errors in selection of amino acids for protein synthesis <i>Microbiological Reviews</i> , 1992 , 56, 412-429		140
41	Editing of errors in selection of amino acids for protein synthesis. <i>Microbiological Reviews</i> , 1992 , 56, 41	2-29	239

40	Proofreading in vivo: editing of homocysteine by methionyl-tRNA synthetase in the yeast Saccharomyces cerevisiae <i>EMBO Journal</i> , 1991 , 10, 593-598	13	64
39	Proofreading in vivo: editing of homocysteine by methionyl-tRNA synthetase in the yeast Saccharomyces cerevisiae. <i>EMBO Journal</i> , 1991 , 10, 593-8	13	19
38	Uncharged tRNA, protein synthesis, and the bacterial stringent response. <i>Molecular Microbiology</i> , 1990 , 4, 2035-40	4.1	51
37	Relationship between protein synthesis and concentrations of charged and uncharged tRNATrp in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 1511-5	11.5	29
36	Proofreading in vivo: editing of homocysteine by methionyl-tRNA synthetase in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 4504-8	11.5	82
35	Effect of variation of charged and uncharged tRNA(Trp) levels on ppGpp synthesis in Escherichia coli. <i>Journal of Bacteriology</i> , 1989 , 171, 6493-502	3.5	33
34	Negative correlation between the abundance of Escherichia coli aminoacyl-tRNA families and their affinities for elongation factor Tu-GTP. <i>Journal of Theoretical Biology</i> , 1988 , 133, 363-70	2.3	17
33	Synthesis of diadenosine 5',5'''-P1,P4-tetraphosphate (AppppA) from adenosine 5'-phosphosulfate and adenosine 5'-triphosphate catalyzed by yeast AppppA phosphorylase. <i>Biochemistry</i> , 1988 , 27, 2959	-64 ²	43
32	Evidence for cooperation between cells during sporulation of the yeast Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 1988 , 8, 5166-78	4.8	19
31	Evidence for cooperation between cells during sporulation of the yeast Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 1988 , 8, 5166-5178	4.8	13
30	Adenosylhomocysteinase from yellow lupine. <i>Methods in Enzymology</i> , 1987 , 143, 4304	1.7	3
29	Phosphonate analogues of diadenosine 5',5'''-P1,P4-tetraphosphate as substrates or inhibitors of procaryotic and eucaryotic enzymes degrading dinucleoside tetraphosphates. <i>Biochemistry</i> , 1987 , 26, 3425-9	3.2	35
28	Sporulation of the yeast Saccharomyces cerevisiae is accompanied by synthesis of adenosine 5'-tetraphosphate and adenosine 5'-pentaphosphate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 2378-82	11.5	31
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25	Substrate specificity of S-adenosylhomocysteinase. Cysteine is a substrate of the plant and mammalian enzymes. <i>BBA - Proteins and Proteomics</i> , 1983 , 742, 250-6		10
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23	Synthesis of diadenosine 5',5"'-P1,P4-tetraphosphate and related compounds by plant (Lupinus luteus) seryl-tRNA and phenylalanyl-tRNA synthetases. <i>Acta Biochimica Polonica</i> , 1983 , 30, 51-69	2	12

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21	The mechanism of inhibition of valyl-tRNA synthetase by S-adenosylhomocysteine. <i>BBA - Proteins and Proteomics</i> , 1982 , 709, 325-31		1
20	S-Adenosylhomocysteinase from yellow lupin seeds: stoichiometry and reactions of the enzyme-adenosine complex. <i>Biochemistry</i> , 1981 , 20, 6877-81	3.2	10
19	Alternative pathways for editing non-cognate amino acids by aminoacyl-tRNA synthetases. <i>Nucleic Acids Research</i> , 1981 , 9, 3105-17	20.1	151
18	Conformational changes during enzyme catalysis: role of water in the transition state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980 , 77, 3374-8	11.5	24
17	Polyamines and yellow lupin aminoacyl-tRNA synthetases. Spermine and spermidine help to maintain the active structures of aminoacyl-tRNA synthetases. <i>FEBS Letters</i> , 1980 , 109, 63-6	3.8	12
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4	Fractionation of plant aminoacyl-tRNA synthetases on tRNA-Sepharose columns. <i>Nucleic Acids and Protein Synthesis</i> , 1975 , 407, 213-21		8
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2	Homocysteine Metabolism and Pathological Implications: The Homocysteine Thiolactone Hypothesis of Vascular Disease363-411		
1	Transfer RNA Synthetase Editing of Errors in Amino Acid Selection1-18		2