

Ellen I Closs

List of Publications by Citations

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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.

82

papers

8,168

citations

40

h-index

87

g-index

87

ext. papers

8,817

ext. citations

6

avg, IF

5.52

L-index

#	Paper	IF	Citations
82	Relief of microRNA-mediated translational repression in human cells subjected to stress. <i>Cell</i> , 2006 , 125, 1111-24	56.2	1071
81	Nitric oxide synthase isozymes. Characterization, purification, molecular cloning, and functions. <i>Hypertension</i> , 1994 , 23, 1121-31	8.5	903
80	Metabolism via Arginase or Nitric Oxide Synthase: Two Competing Arginine Pathways in Macrophages. <i>Frontiers in Immunology</i> , 2014 , 5, 532	8.4	567
79	CATs and HATs: the SLC7 family of amino acid transporters. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 447, 532-42	4.6	509
78	Transport of cationic amino acids by the mouse ecotropic retrovirus receptor. <i>Nature</i> , 1991 , 352, 725-8	50.4	506
77	Interference of L-arginine analogues with L-arginine transport mediated by the y+ carrier hCAT-2B. <i>Nitric Oxide - Biology and Chemistry</i> , 1997 , 1, 65-73	5	329
76	Isoforms of nitric oxide synthase. Properties, cellular distribution and expressional control. <i>Biochemical Pharmacology</i> , 1995 , 50, 1321-32	6	302
75	A human amphotropic retrovirus receptor is a second member of the gibbon ape leukemia virus receptor family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 1168-72	11.5	236
74	Plasma membrane transporters for arginine. <i>Journal of Nutrition</i> , 2004 , 134, 2752S-2759S; discussion 2765S-2767S	4.1	191
73	Structure and function of cationic amino acid transporters (CATs). <i>Journal of Membrane Biology</i> , 2006 , 213, 67-77	2.3	167
72	Regulation of cationic amino acid transport: the story of the CAT-1 transporter. <i>Annual Review of Nutrition</i> , 2004 , 24, 377-99	9.9	161
71	Gene expression during osteogenic differentiation in mandibular condyles in vitro. <i>Journal of Cell Biology</i> , 1990 , 110, 1369-78	7.3	159
70	Reversal of endothelial nitric oxide synthase uncoupling and up-regulation of endothelial nitric oxide synthase expression lowers blood pressure in hypertensive rats. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 2536-44	15.1	147
69	Resveratrol reverses endothelial nitric-oxide synthase uncoupling in apolipoprotein E knockout mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 335, 149-54	4.7	133
68	Stress-induced reversal of microRNA repression and mRNA P-body localization in human cells. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2006 , 71, 513-21	3.9	133
67	Cytokines and insulin induce cationic amino acid transporter (CAT) expression in cardiac myocytes. Regulation of L-arginine transport and no production by CAT-1, CAT-2A, and CAT-2B. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11694-702	5.4	133
66	Human cationic amino acid transporters hCAT-1, hCAT-2A, and hCAT-2B: three related carriers with distinct transport properties. <i>Biochemistry</i> , 1997 , 36, 6462-8	3.2	127

65	Uncoupling of Endothelial Nitric Oxide Synthase in Perivascular Adipose Tissue of Diet-Induced Obese Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 78-85	9.4	124
64	Inducible NO synthase II and neuronal NO synthase I are constitutively expressed in different structures of guinea pig skeletal muscle: implications for contractile function. <i>FASEB Journal</i> , 1996 , 10, 1614-20	0.9	123
63	Mechanisms underlying recoupling of eNOS by HMG-CoA reductase inhibition in a rat model of streptozotocin-induced diabetes mellitus. <i>Atherosclerosis</i> , 2008 , 198, 65-76	3.1	106
62	Bone formation by osteoblast-like cells in a three-dimensional cell culture. <i>Calcified Tissue International</i> , 1990 , 46, 46-56	3.9	104
61	Stimulation of endothelial nitric oxide synthase by proinsulin C-peptide. <i>Nitric Oxide - Biology and Chemistry</i> , 2003 , 9, 95-102	5	101
60	In human endothelial cells rapamycin causes mTORC2 inhibition and impairs cell viability and function. <i>Cardiovascular Research</i> , 2008 , 78, 563-71	9.9	88
59	System L amino acid transporter LAT1 accumulates O-(2-fluoroethyl)-L-tyrosine (FET). <i>Amino Acids</i> , 2015 , 47, 335-44	3.5	86
58	Expression, regulation and function of carrier proteins for cationic amino acids. <i>Current Opinion in Nephrology and Hypertension</i> , 2002 , 11, 99-107	3.5	82
57	Role of neutral amino acid transport and protein breakdown for substrate supply of nitric oxide synthase in human endothelial cells. <i>Circulation Research</i> , 2003 , 93, 813-20	15.7	81
56	Expression and expressional control of nitric oxide synthases in various cell types. <i>Advances in Pharmacology</i> , 1995 , 34, 171-86	5.7	74
55	A stable long-term hepatocyte culture system for studies of physiologic processes: cytokine stimulation of the acute phase response in rat and human hepatocytes. <i>Biotechnology Progress</i> , 1992 , 8, 219-25	2.8	73
54	Antiatherosclerotic effects of small-molecular-weight compounds enhancing endothelial nitric-oxide synthase (eNOS) expression and preventing eNOS uncoupling. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 325, 370-9	4.7	71
53	Human cationic amino acid transporter hCAT-3 is preferentially expressed in peripheral tissues. <i>Biochemistry</i> , 2001 , 40, 12387-94	3.2	71
52	Dexamethasone suppresses eNOS and CAT-1 and induces oxidative stress in mouse resistance arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H436-44	5.2	66
51	Polyamines Impair Immunity to Helicobacter pylori by Inhibiting L-Arginine Uptake Required for Nitric Oxide Production. <i>Gastroenterology</i> , 2010 , 139, 1686-98, 1698.e1-6	13.3	63
50	c-fos expression precedes osteogenic differentiation of cartilage cells in vitro. <i>Journal of Cell Biology</i> , 1990 , 111, 1313-23	7.3	58
49	Protein kinase C-dependent ubiquitination and clathrin-mediated endocytosis of the cationic amino acid transporter CAT-1. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8697-8706	5.4	51
48	CATs, a family of three distinct mammalian cationic amino acid transporters. <i>Amino Acids</i> , 1996 , 11, 193-203	50	50

47	The transport activity of the human cationic amino acid transporter hCAT-1 is downregulated by activation of protein kinase C. <i>British Journal of Pharmacology</i> , 2001 , 132, 1193-200	8.6	49
46	Arginase activity - a marker of disease status in patients with visceral leishmaniasis in ethiopia. <i>PLoS Neglected Tropical Diseases</i> , 2013 , 7, e2134	4.8	48
45	Regulation of intestinal phosphate cotransporter NaPi IIb by ubiquitin ligase Nedd4-2 and by serum- and glucocorticoid-dependent kinase 1. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 287, G143-50	5.1	47
44	Expression of solute carrier 7A4 (SLC7A4) in the plasma membrane is not sufficient to mediate amino acid transport activity. <i>Biochemical Journal</i> , 2002 , 364, 767-75	3.8	45
43	6-mercaptopurine and 9-(2-phosphonyl-methoxyethyl) adenine (PMEA) transport altered by two missense mutations in the drug transporter gene ABCC4. <i>Human Mutation</i> , 2008 , 29, 659-69	4.7	42
42	Retroviral infection and expression of cationic amino acid transporters in rodent hepatocytes. <i>Journal of Virology</i> , 1993 , 67, 2097-102	6.6	39
41	Protein kinase C activation promotes the internalization of the human cationic amino acid transporter hCAT-1. A new regulatory mechanism for hCAT-1 activity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 54185-92	5.4	36
40	Paradoxical effect of L-arginine: acceleration of endothelial cell senescence. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 386, 650-5	3.4	33
39	Granulocyte-macrophage colony-stimulating factor increases L-arginine transport through the induction of CAT2 in bone marrow-derived macrophages. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C1364-72	5.4	31
38	Induced arginine transport via cationic amino acid transporter-1 is necessary for human T-cell proliferation. <i>European Journal of Immunology</i> , 2016 , 46, 92-103	6.1	30
37	Inhibition of folic acid uptake by catechins and tea extracts in Caco-2 cells. <i>Planta Medica</i> , 2007 , 73, 27-33	3.1	30
36	Reconstitution of T Cell Proliferation under Arginine Limitation: Activated Human T Cells Take Up Citrulline L-Type Amino Acid Transporter 1 and Use It to Regenerate Arginine after Induction of Argininosuccinate Synthase Expression. <i>Frontiers in Immunology</i> , 2017 , 8, 864	8.4	27
35	OCTN2-mediated carnitine uptake in a newly discovered human proximal tubule cell line (Caki-1). <i>Molecular Pharmaceutics</i> , 2007 , 4, 160-8	5.6	26
34	Neuronal nitric oxide synthase modulates maturation of human dendritic cells. <i>Journal of Immunology</i> , 2010 , 184, 6025-34	5.3	24
33	Impairment of the extrusion transporter for asymmetric dimethyl-L-arginine: a novel mechanism underlying vasospastic angina. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 218-23	3.4	21
32	Arginine transport in human erythroid cells: discrimination of CAT1 and 4F2hc/y+LAT2 roles. <i>Pflügers Archiv European Journal of Physiology</i> , 2009 , 458, 1163-73	4.6	21
31	Characterization of fos-induced osteogenic tumours and tumour-derived murine cell lines. <i>Differentiation</i> , 1990 , 44, 122-31	3.5	21
30	Rapamycin stimulates arginine influx through CAT2 transporters in human endothelial cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 1479-87	3.8	20

29	Two amino acid residues determine the low substrate affinity of human cationic amino acid transporter-2A. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19492-9	5.4	20
28	Failure of 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one (ODQ) to inhibit soluble guanylyl cyclase in rat ventricular cardiomyocytes. <i>British Journal of Pharmacology</i> , 1999 , 127, 693-700	8.6	20
27	Transmembrane signalling mechanisms regulating expression of cationic amino acid transporters and inducible nitric oxide synthase in rat vascular smooth muscle cells. <i>Biochemical Journal</i> , 1999 , 344, 265	3.8	18
26	Biopterin metabolism and eNOS expression during hypoxic pulmonary hypertension in mice. <i>PLoS ONE</i> , 2013 , 8, e82594	3.7	17
25	Activation of classical protein kinase C decreases transport via systems y+ and y+L. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C2259-68	5.4	17
24	Coexpression of inducible NO synthase and soluble guanylyl cyclase in colonic enterocytes: a pathophysiologic signaling pathway for the initiation of diarrhea by gram-negative bacteria?. <i>FASEB Journal</i> , 1998 , 12, 1643-9	0.9	17
23	Identification of carrier systems in plasma membranes of mammalian cells involved in transport of L-arginine. <i>Methods in Enzymology</i> , 1999 , 301, 78-91	1.7	17
22	Asymmetric dimethylarginine is transported by the mitochondrial carrier SLC25A2. <i>Amino Acids</i> , 2016 , 48, 427-36	3.5	14
21	Granulocyte functions are independent of arginine availability. <i>Journal of Leukocyte Biology</i> , 2014 , 96, 1047-53	6.5	13
20	Relative contribution of different l-arginine sources to the substrate supply of endothelial nitric oxide synthase. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 855-61	5.8	13
19	Identification and characterisation of the dopamine receptor II from the cat flea <i>Ctenocephalides felis</i> (CfDopRII). <i>Insect Biochemistry and Molecular Biology</i> , 2006 , 36, 749-58	4.5	13
18	Activation of classical protein kinase C reduces the expression of human cationic amino acid transporter 3 (hCAT-3) in the plasma membrane. <i>Biochemical Journal</i> , 2006 , 395, 117-23	3.8	13
17	Intracellular accumulation of L-Arg, kinetics of transport, and potassium leak conductance in oocytes from <i>Xenopus laevis</i> expressing hCAT-1, hCAT-2A, and hCAT-2B. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1660, 138-43	3.8	13
16	Cationic Amino Acid Transporter-1-Mediated Arginine Uptake Is Essential for Chronic Lymphocytic Leukemia Cell Proliferation and Viability. <i>Frontiers in Oncology</i> , 2019 , 9, 1268	5.3	13
15	Identification of cysteine residues in human cationic amino acid transporter hCAT-2A that are targets for inhibition by N-ethylmaleimide. <i>Journal of Biological Chemistry</i> , 2013 , 288, 30411-30419	5.4	12
14	Inhibition of nitric oxide synthase abrogates lipopolysaccharides-induced up-regulation of L-arginine uptake in rat alveolar macrophages. <i>British Journal of Pharmacology</i> , 2001 , 133, 379-86	8.6	12
13	Loss of organic cation transporter 3 (Oct3) leads to enhanced proliferation and hepatocarcinogenesis. <i>Oncotarget</i> , 2017 , 8, 115667-115680	3.3	12
12	Hypomorphic variants of cationic amino acid transporter 3 in males with autism spectrum disorders. <i>Amino Acids</i> , 2015 , 47, 2647-58	3.5	10

11	Differential cystine and dibasic amino acid handling after loss of function of the amino acid transporter b0,+AT (Slc7a9) in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F1645-55	4.3	10
10	Human cationic amino acid transporter gene hCAT-2 is assigned to 8p22 but is not the causative gene in lysinuric protein intolerance. <i>Human Genetics</i> , 1997 , 100, 80-3	6.3	8
9	Biochemical characterization of a virus-induced osteosarcoma-like osseous lesion in vitro. <i>Calcified Tissue International</i> , 1989 , 45, 232-42	3.9	8
8	Effects of leukemogenic retroviruses on condylar cartilage in vitro: an ultrastructural study. <i>Calcified Tissue International</i> , 1989 , 44, 25-35	3.9	8
7	Decoding the substrate supply to human neuronal nitric oxide synthase. <i>PLoS ONE</i> , 2013 , 8, e67707	3.7	7
6	A chimera carrying the functional domain of the orphan protein SLC7A14 in the backbone of SLC7A2 mediates trans-stimulated arginine transport. <i>Journal of Biological Chemistry</i> , 2012 , 287, 30853-60	5.4	6
5	Isolation of a cathepsin B-encoding cDNA from murine osteogenic cells. <i>Gene</i> , 1991 , 103, 259-61	3.8	6
4	Human cationic amino acid transporters are not affected by direct nitros(yl)ation. <i>Amino Acids</i> , 2020 , 52, 499-503	3.5	3
3	Monovalent cation conductance in <i>Xenopus laevis</i> oocytes expressing hCAT-3. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1668, 234-9	3.8	2
2	Inhibition of antigen-specific immune responses by co-application of an indoleamine 2,3-dioxygenase (IDO)-encoding vector requires antigen transgene expression focused on dendritic cells. <i>Amino Acids</i> , 2020 , 52, 411-424	3.5	1
1	Putative role of cationic amino acid transporter-3 in murine liver metabolism. <i>Hepatology</i> , 2015 , 62, 1326-72	6.2	