Matthias A Hediger

List of Publications by Year
in descending order

198 papers	31,849 citations	7096 78 h-index	4117 175 g-index
207 all docs	207 docs citations	207 times ranked	22176 citing authors

#	Article	IF	Citations
1	Cloning and characterization of a mammalian proton-coupled metal-ion transporter. Nature, 1997, 388, 482-488.	27.8	2,895
2	Cloning and characterization of an extracellular Ca2+-sensing receptor from bovine parathyroid. Nature, 1993, 366, 575-580.	27.8	2,533
3	Knockout of Glutamate Transporters Reveals a Major Role for Astroglial Transport in Excitotoxicity and Clearance of Glutamate. Neuron, 1996, 16, 675-686.	8.1	2,332
4	A Novel Duodenal Iron-Regulated Transporter, IREG1, Implicated in the Basolateral Transfer of Iron to the Circulation. Molecular Cell, 2000, 5, 299-309.	9.7	1,294
5	Primary structure and functional characterization of a high-affinity glutamate transporter. Nature, 1992, 360, 467-471.	27.8	1,276
6	Expression cloning and cDNA sequencing of the Na+/glucose co-transporter. Nature, 1987, 330, 379-381.	27.8	1,020
7	An Iron-Regulated Ferric Reductase Associated with the Absorption of Dietary Iron. Science, 2001, 291, 1755-1759.	12.6	897
8	Expression cloning of a mammalian proton-coupled oligopeptide transporter. Nature, 1994, 368, 563-566.	27.8	838
9	A family of mammalian Na+-dependent L-ascorbic acid transporters. Nature, 1999, 399, 70-75.	27.8	822
10	The ABCs of solute carriers: physiological, pathological and therapeutic implications of human membrane transport proteins. Pflugers Archiv European Journal of Physiology, 2004, 447, 465-468.	2.8	817
11	Molecular Cloning and Characterization of a Channel-like Transporter Mediating Intestinal Calcium Absorption. Journal of Biological Chemistry, 1999, 274, 22739-22746.	3.4	546
12	The ABCs of membrane transporters in health and disease (SLC series): Introduction. Molecular Aspects of Medicine, 2013, 34, 95-107.	6.4	478
13	A Call for Systematic Research on Solute Carriers. Cell, 2015, 162, 478-487.	28.9	457
14	Human Intestinal H+/Peptide Cotransporter. Journal of Biological Chemistry, 1995, 270, 6456-6463.	3.4	450
15	Mutations in the Tight-Junction Gene Claudin 19 (CLDN19) Are Associated with Renal Magnesium Wasting, Renal Failure, and Severe Ocular Involvement. American Journal of Human Genetics, 2006, 79, 949-957.	6.2	446
16	Molecular Characterization of a Broad Selectivity Neutral Solute Channel. Journal of Biological Chemistry, 1998, 273, 24737-24743.	3.4	416
17	Expression cloning and characterization of a renal electrogenic Na+ /HCO3â^' cotransporter. Nature, 1997, 387, 409-413.	27.8	415
18	The glutamate/neutral amino acid transporter family SLC1: molecular, physiological and pharmacological aspects. Pflugers Archiv European Journal of Physiology, 2004, 447, 469-479.	2.8	358

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19	CaT1 manifests the pore properties of the calcium-release-activated calcium channel. Nature, 2001, 410, 705-709.	27.8	336
20	Amino acid transporters revisited: New views in health and disease. Trends in Biochemical Sciences, 2018, 43, 752-789.	7.5	308
21	Cloning and characterization of the vasopressin-regulated urea transporter. Nature, 1993, 365, 844-847.	27.8	300
22	SOD1 mutants linked to amyotrophic lateral sclerosis selectively inactivate a glial glutamate transporter. Nature Neuroscience, 1999, 2, 427-433.	14.8	282
23	Iron-dependent regulation of the divalent metal ion transporter. FEBS Letters, 2001, 509, 309-316.	2.8	269
24	Molecular Physiology of Urate Transport. Physiology, 2005, 20, 125-133.	3.1	261
25	Proton-coupled oligopeptide transporter family SLC15: Physiological, pharmacological and pathological implications. Molecular Aspects of Medicine, 2013, 34, 323-336.	6.4	260
26	The SLC1 high-affinity glutamate and neutral amino acid transporter family. Molecular Aspects of Medicine, 2013, 34, 108-120.	6.4	255
27	Marked Disturbance of Calcium Homeostasis in Mice With Targeted Disruption of the Trpv6 Calcium Channel Gene. Journal of Bone and Mineral Research, 2007, 22, 274-285.	2.8	251
28	Molecular cloning of PEPT 2, a new member of the H+/peptide cotransporter family, from human kidney. Biochimica Et Biophysica Acta - Biomembranes, 1995, 1235, 461-466.	2.6	228
29	Calcium-Selective Ion Channel, CaT1, Is Apically Localized in Gastrointestinal Tract Epithelia and Is Aberrantly Expressed in Human Malignancies. Laboratory Investigation, 2002, 82, 1755-1764.	3.7	222
30	Polycystin-2 Is a Novel Cation Channel Implicated in Defective Intracellular Ca2+ Homeostasis in Polycystic Kidney Disease. Biochemical and Biophysical Research Communications, 2001, 282, 341-350.	2.1	218
31	Calcium Transporter 1 and Epithelial Calcium Channel Messenger Ribonucleic Acid Are Differentially Regulated by 1,25 Dihydroxyvitamin D3 in the Intestine and Kidney of Mice. Endocrinology, 2003, 144, 3885-3894.	2.8	218
32	A Novel System A Isoform Mediating Na+/Neutral Amino Acid Cotransport. Journal of Biological Chemistry, 2000, 275, 22790-22797.	3.4	213
33	Active Intestinal Calcium Transport in the Absence of Transient Receptor Potential Vanilloid Type 6 and Calbindin-D9k. Endocrinology, 2008, 149, 3196-3205.	2.8	204
34	Polycystin-L is a calcium-regulated cation channel permeable to calcium ions. Nature, 1999, 401, 383-386.	27.8	200
35	Human Vitamin C (l-Ascorbic Acid) Transporter SVCT1. Biochemical and Biophysical Research Communications, 2000, 267, 488-494.	2.1	191
36	Human Calcium Transport Protein CaT1. Biochemical and Biophysical Research Communications, 2000, 278, 326-332.	2.1	190

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37	The elusive transporters with a high affinity for glutamate. Trends in Neurosciences, 1993, 16, 365-370.	8.6	188
38	The role of TRPV6 in breast carcinogenesis. Molecular Cancer Therapeutics, 2008, 7, 271-279.	4.1	179
39	Molecular Characteristics of Na+-coupled Glucose Transporters in Adult and Embryonic Rat Kidney. Journal of Biological Chemistry, 1995, 270, 29365-29371.	3.4	176
40	Colonic epithelial hPepT1 expression occurs in inflammatory bowel disease: Transport of bacterial peptides influences expression of MHC class 1 molecules. Gastroenterology, 2001, 120, 1666-1679.	1.3	176
41	The glutamate and neutral amino acid transporter family: physiological and pharmacological implications. European Journal of Pharmacology, 2003, 479, 237-247.	3.5	174
42	The calcium-sensing receptor is required for normal calcium homeostasis independent of parathyroid hormone. Journal of Clinical Investigation, 2003, 111, 1021-1028.	8.2	174
43	A new family of neurotransmitter transporters: the highâ€affinity glutamate transporters. FASEB Journal, 1993, 7, 1450-1459.	0.5	169
44	Electrogenic Properties of the Epithelial and Neuronal High Affinity Glutamate Transporter. Journal of Biological Chemistry, 1995, 270, 16561-16568.	3.4	169
45	CaT1 Expression Correlates with Tumor Grade in Prostate Cancer. Biochemical and Biophysical Research Communications, 2001, 282, 729-734.	2.1	165
46	Characterization of a Na+/glucose cotransporter cloned from rabbit small intestine. Journal of Membrane Biology, 1989, 110, 87-95.	2.1	159
47	Amyotrophic Lateral Sclerosis-linked Glutamate Transporter Mutant Has Impaired Glutamate Clearance Capacity. Journal of Biological Chemistry, 2001, 276, 576-582.	3.4	155
48	Functional properties of multiple isoforms of human divalent metal-ion transporter 1 (DMT1). Biochemical Journal, 2007, 403, 59-69.	3.7	147
49	Yeast SMF1 Mediates H+-coupled Iron Uptake with Concomitant Uncoupled Cation Currents. Journal of Biological Chemistry, 1999, 274, 35089-35094.	3.4	137
50	A Rat Kidney-specific Calcium Transporter in the Distal Nephron. Journal of Biological Chemistry, 2000, 275, 28186-28194.	3.4	137
51	Functional and molecular characterization of the human neutral solute channel aquaporin-9. American Journal of Physiology - Renal Physiology, 1999, 277, F685-F696.	2.7	133
52	Cloning and functional expression of rNBC, an electrogenic Na⁺- HCO 3 â^' cotransporter from rat kidney. American Journal of Physiology - Renal Physiology, 1998, 274, F425-F432.	2.7	130
53	Sodium-dependent ascorbic acid transporter family SLC23. Pflugers Archiv European Journal of Physiology, 2004, 447, 677-682.	2.8	130
54	Identification of Mammalian Proline Transporter SIT1 (SLC6A20) with Characteristics of Classical System Imino. Journal of Biological Chemistry, 2005, 280, 8974-8984.	3.4	130

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55	Functional Properties and Cellular Distribution of the System A Glutamine Transporter SNAT1 Support Specialized Roles in Central Neurons. Journal of Biological Chemistry, 2003, 278, 23720-23730.	3.4	126
56	Divalent metal-ion transporter DMT1 mediates both H+ -coupled Fe2+ transport and uncoupled fluxes. Pflugers Archiv European Journal of Physiology, 2006, 451, 544-558.	2.8	125
57	The sodium-dependent ascorbic acid transporter family SLC23. Molecular Aspects of Medicine, 2013, 34, 436-454.	6.4	125
58	Characterization of a stem cell population in lung cancer A549 cells. Biochemical and Biophysical Research Communications, 2008, 371, 163-167.	2.1	115
59	Title is missing!. Nature, 1999, 401, 383-386.	27.8	110
60	Na/HCO₃ Cotransporters in Rat Brain: Expression in Glia, Neurons, and Choroid Plexus. Journal of Neuroscience, 2000, 20, 6839-6848.	3.6	110
61	Mammalian iron transporters: Families SLC11 and SLC40. Molecular Aspects of Medicine, 2013, 34, 270-287.	6.4	110
62	SLC11 family of H + -coupled metal-ion transporters NRAMP1 and DMT1. Pflugers Archiv European Journal of Physiology, 2004, 447, 571-579.	2.8	105
63	Neuronal high-affinity glutamate transport in the rat central nervous system. NeuroReport, 1995, 6, 2357-2362.	1.2	102
64	Mechanisms and Regulation of Epithelial Ca²⁺ Absorption in Health and Disease. Annual Review of Physiology, 2008, 70, 257-271.	13.1	100
65	Characterization of a Rat Na+-Dicarboxylate Cotransporter. Journal of Biological Chemistry, 1998, 273, 20972-20981.	3.4	99
66	Distribution of the glutamate transporters GLAST and GLT-1 in rat circumventricular organs, meninges, and dorsal root ganglia. , 2000, 421, 385-399.		99
67	Calcium Channel TRPV6 Is Involved in Murine Maternalâ€“Fetal Calcium Transport. Journal of Bone and Mineral Research, 2008, 23, 1249-1256.	2.8	98
68	Vitamin D. Annals of the New York Academy of Sciences, 2007, 1116, 340-348.	3.8	97
69	SLC13 family of Na+-coupled di- and tri-carboxylate/sulfate transporters. Molecular Aspects of Medicine, 2013, 34, 299-312.	6.4	97
70	Epithelial Ca2+ entry channels: transcellular Ca2+ transport and beyond. Journal of Physiology, 2003, 551, 729-740.	2.9	97
71	Molecular and functional analysis of SDCT2, a novel rat sodium-dependent dicarboxylate transporter. Journal of Clinical Investigation, 1999, 103, 1159-1168.	8.2	95
72	Trpv6 mediates intestinal calcium absorption during calcium restriction and contributes to bone homeostasis. Bone, 2010, 47, 301-308.	2.9	94

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73	New view at C. Nature Medicine, 2002, 8, 445-446.	30.7	93
74	Structural Conservation of the Genes Encoding CaT1, CaT2, and Related Cation Channels. Genomics, 2001, 76, 99-109.	2.9	92
75	Functional Roles of Histidine and Tyrosine Residues in the H+-Peptide Transporter PepT1. Biochemical and Biophysical Research Communications, 2000, 272, 726-730.	2.1	90
76	The amino acid transport system y⁺L/4F2hc is a heteromultimeric complex. FASEB Journal, 1998, 12, 1319-1329.	0.5	87
77	Metal ion transporters in mammals: structure, function and pathological implications. Journal of Physiology, 1999, 518, 1-12.	2.9	87
78	Differential recognition of ACE inhibitors in Xenopus laevis oocytes expressing rat PEPT1 and PEPT2. Pharmaceutical Research, 2000, 17, 526-532.	3.5	85
79	Differential distribution of the glutamate transporters GLT-1 and GLAST in tanycytes of the third ventricle. Journal of Comparative Neurology, 2001, 433, 101-114.	1.6	82
80	Zinc transporters in prostate cancer. Molecular Aspects of Medicine, 2013, 34, 735-741.	6.4	79
81	Tubular localization and tissue distribution of peptide transporters in rat kidney. Pharmaceutical Research, 1998, 15, 1244-1249.	3.5	77
82	Characterization of a branched-chain amino-acid transporter SBAT1 (SLC6A15) that is expressed in human brain. Biochemical and Biophysical Research Communications, 2005, 337, 892-900.	2.1	73
83	Localization of Sodium Bicarbonate Cotransporter (NBC) Protein and Messenger Ribonucleic Acid in Rat Epididymis1. Biology of Reproduction, 1999, 60, 573-579.	2.7	71
84	Molecular genetics of cystinuria: Mutation analysis of SLC3A1 and evidence for another gene in the Type I (silent) phenotype. Kidney International, 1998, 54, 48-55.	5.2	70
85	[2] Expression cloning using Xenopus laevis oocytes. Methods in Enzymology, 1998, 296, 17-52.	1.0	70
86	Inhibition of the human epithelial calcium channel TRPV6 by 2-aminoethoxydiphenyl borate (2-APB). Cell Calcium, 2012, 52, 468-480.	2.4	68
87	Mutations inSLC1A4, encoding the brain serine transporter, are associated with developmental delay, microcephaly and hypomyelination. Journal of Medical Genetics, 2015, 52, 541-547.	3.2	68
88	Transport Function of the Naturally Occurring Pathogenic Polycystin-2 Mutant, R742X. Biochemical and Biophysical Research Communications, 2001, 282, 1251-1256.	2.1	67
89	Intestinal expression of genes involved in iron absorption in humans. American Journal of Physiology - Renal Physiology, 2002, 282, G598-G607.	3.4	67
90	Localization of the Na+/Glucose Cotransporter Gene SGLT2 to Human Chromosome 16 Close to the Centromere. Genomics, 1993, 17, 787-789.	2.9	65

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91	Diurnal rhythmicity in intestinal SGLT-1 function,V_{max}, and mRNA expression topography. American Journal of Physiology - Renal Physiology, 2001, 280, G209-G215.	3.4	65
92	Symmetry of H+ Binding to the Intra- and Extracellular Side of the H+-coupled Oligopeptide Cotransporter PepT1. Journal of Biological Chemistry, 1997, 272, 7777-7785.	3.4	63
93	Effect of middle cerebral artery occlusion on mRNA expression for the sodium-coupled vitamin C transporter SVCT2 in rat brain. Journal of Neurochemistry, 2003, 86, 896-906.	3.9	63
94	Solute carriers (SLCs) in cancer. Molecular Aspects of Medicine, 2013, 34, 719-734.	6.4	63
95	The SLC14 gene family of urea transporters. Pflugers Archiv European Journal of Physiology, 2004, 447, 603-609.	2.8	62
96	Gain-of-function haplotype in the epithelial calcium channel TRPV6 is a risk factor for renal calcium stone formation. Human Molecular Genetics, 2008, 17, 1613-1618.	2.9	62
97	Stoichiometry and Kinetics of the High-affinity H+-coupled Peptide Transporter PepT2. Journal of Biological Chemistry, 1999, 274, 2773-2779.	3.4	61
98	Heavy metal cations permeate the TRPV6 epithelial cation channel. Cell Calcium, 2011, 49, 43-55.	2.4	61
99	Tamoxifen Inhibits TRPV6 Activity via Estrogen Receptorâ€“Independent Pathways in TRPV6-Expressing MCF-7 Breast Cancer Cells. Molecular Cancer Research, 2009, 7, 2000-2010.	3.4	60
100	Iron transport: emerging roles in health and disease. Biochemistry and Cell Biology, 2002, 80, 679-689.	2.0	58
101	Distribution of the glutamate transporters GLT-1 (SLC1A2) and GLAST (SLC1A3) in peripheral organs. Anatomy and Embryology, 2006, 211, 595-606.	1.5	57
102	Investigation of the Inhibitory Effects of the Benzodiazepine Derivative, 5-BDBD on P2X₄Purinergic Receptors by two Complementary Methods. Cellular Physiology and Biochemistry, 2013, 32, 11-24.	1.6	57
103	Assignment of the human intestinal Na+/glucose cotransporter gene (SGLT1) to the q11.2 â†' qter region of chromosome 22. Genomics, 1989, 4, 297-300.	2.9	56
104	Chemical Inhibitors of the Calcium Entry Channel TRPV6. Pharmaceutical Research, 2011, 28, 322-330.	3.5	55
105	Inhibition of the glutamate transporter EAAC1 expressed in Xenopus oocytes by phorbol esters. Brain Research, 2001, 914, 196-203.	2.2	54
106	Functional and Physiological Role of Vitamin C Transporters. Current Topics in Membranes, 2012, 70, 357-375.	0.9	54
107	Design, synthesis and pharmacological characterization of analogs of 2-aminoethyl diphenylborinate (2-APB), a known store-operated calcium channel blocker, for inhibition of TRPV6-mediated calcium transport. Bioorganic and Medicinal Chemistry, 2013, 21, 3202-3213.	3.0	54
108	Biosynthesis of the cloned intestinal Na+/glucose cotransporter. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1064, 360-364.	2.6	53

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109	Sodium/hydrogen exchanger NHA2 is critical for insulin secretion in Â-cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10004-10009.	7.1	53
110	Sodium-coupled glucose transport, the SLC5 family, and therapeutically relevant inhibitors: from molecular discovery to clinical application. Pflugers Archiv European Journal of Physiology, 2020, 472, 1177-1206.	2.8	53
111	The urea transporter family (SLC14): Physiological, pathological and structural aspects. Molecular Aspects of Medicine, 2013, 34, 313-322.	6.4	52
112	Structure, regulation and physiological roles of urea transporters. Kidney International, 1996, 49, 1615-1623.	5.2	50
113	Placental glucose transporter (GLUT)-1 is down-regulated in preeclampsia. Placenta, 2017, 55, 94-99.	1.5	48
114	Gateway to a long life?. Nature, 2002, 417, 393-395.	27.8	47
115	Expression and characterization of the intestinal Na+/glucose cotransporter in COS-7 cells. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1990, 1048, 100-104.	2.4	45
116	Nutrient Transport in the Mammary Gland: Calcium, Trace Minerals and Water Soluble Vitamins. Journal of Mammary Gland Biology and Neoplasia, 2014, 19, 73-90.	2.7	44
117	A novel STIM1-Orai1 gating interface essential for CRAC channel activation. Cell Calcium, 2019, 79, 57-67.	2.4	44
118	The vitamin C transporter SVCT2 is expressed by astrocytes in culture but not in situ. NeuroReport, 2000, 11, 1395-1399.	1.2	43
119	Human TRPV5 and TRPV6: Key players in cadmium and zinc toxicity. Cell Calcium, 2013, 54, 276-286.	2.4	43
120	CaT1 knock-down strategies fail to affect CRAC channels in mucosal-type mast cells. Journal of Physiology, 2004, 557, 121-132.	2.9	41
121	Redox modulation of STIM-ORAI signaling. Cell Calcium, 2016, 60, 142-152.	2.4	41
122	Identification of Selective Norbornane-Type Aspartate Analogue Inhibitors of the Glutamate Transporter 1 (GLT-1) from the Chemical Universe Generated Database (GDB). Journal of Medicinal Chemistry, 2010, 53, 7236-7250.	6.4	40
123	Optimization of TRPV6 Calcium Channel Inhibitors Using a 3D Ligandâ€Based Virtual Screening Method. Angewandte Chemie - International Edition, 2015, 54, 14748-14752.	13.8	40
124	Tissue-engineered neomucosa: morphology, enterocyte dynamics, and SGLT1 expression topography1. Transplantation, 2003, 75, 181-185.	1.0	38
125	ORAI1 channel gating and selectivity is differentially altered by natural mutations in the first or third transmembrane domain. Journal of Physiology, 2019, 597, 561-582.	2.9	37
126	The N terminus of Orai1 couples to the AKAP79 signaling complex to drive NFAT1 activation by local Ca ²⁺ entry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	35

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127	Long-term regulation of urea transporter expression by vasopressin in Brattleboro rats. American Journal of Physiology - Renal Physiology, 2000, 278, F620-F627.	2.7	34
128	Molecular characterization of a novel urea transporter from kidney inner medullary collecting ducts. American Journal of Physiology - Renal Physiology, 2001, 280, F487-F494.	2.7	34
129	A family of calcium-permeable channels in the kidney: distinct roles in renal calcium handling. Current Opinion in Nephrology and Hypertension, 2002, 11, 555-561.	2.0	34
130	Expression, Purification, and Structural Insights for the Human Uric Acid Transporter, GLUT9, Using the Xenopus laevis Oocytes System. PLoS ONE, 2014, 9, e108852.	2.5	34
131	Assignment of the Gene for Cystinuria (SLC3A1) to Human Chromosome 2p21 by Fluorescence in Situ Hybridization. Genomics, 1994, 24, 413-414.	2.9	33
132	Glutamate transporters in kidney and brain. American Journal of Physiology - Renal Physiology, 1999, 277, F487-F492.	2.7	33
133	The effect of inorganic phosphate on calcium influx into rat heart mitochondria. Biochemical and Biophysical Research Communications, 1978, 80, 540-546.	2.1	31
134	Apical Entry Channels in Calcium-Transporting Epithelia. Physiology, 2003, 18, 158-163.	3.1	31
135	Localization of the high-affinity glutamate transporter EAAC1 in rat kidney. American Journal of Physiology - Renal Physiology, 1997, 273, F1023-F1029.	2.7	30
136	A novel proton transfer mechanism in the SLC11 family of divalent metal ion transporters. Scientific Reports, 2017, 7, 6194.	3.3	29
137	Hypoxic treatment of human dual placental perfusion induces a preeclampsia-like inflammatory response. Laboratory Investigation, 2014, 94, 873-880.	3.7	28
138	Frog Oocytes to Unveil the Structure and Supramolecular Organization of Human Transport Proteins. PLoS ONE, 2011, 6, e21901.	2.5	26
139	The High-Affinity Glutamate Transporter Family. , 1997, , 171-213.		26
140	Inhibition of CaT1 Channel Activity by a Noncompetitive IP3 Antagonist. Biochemical and Biophysical Research Communications, 2001, 280, 145-150.	2.1	24
141	Intestinal metal ion absorption: an update. Current Opinion in Gastroenterology, 2001, 17, 177-183.	2.3	24
142	Single-Channel Activities of the Human Epithelial Ca 2+ Transport Proteins CaT1 and CaT2. Journal of Membrane Biology, 2001, 184, 113-120.	2.1	24
143	Transport model of the human Na⁺-coupled <scp>l</scp>-ascorbic acid (vitamin C) transporter SVCT1. American Journal of Physiology - Cell Physiology, 2008, 294, C451-C459.	4.6	24
144	Discovery and characterization of a novel non-competitive inhibitor of the divalent metal transporter DMT1/SLC11A2. Biochemical Pharmacology, 2015, 96, 216-224.	4.4	24

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145	Recurrent SLC1A2 variants cause epilepsy via a dominant negative mechanism. Annals of Neurology, 2019, 85, 921-926.	5.3	23
146	Synthesis and Pharmacological Characterization of 2-Aminoethyl Diphenylborinate (2-APB) Derivatives for Inhibition of Store-Operated Calcium Entry (SOCE) in MDA-MB-231 Breast Cancer Cells. International Journal of Molecular Sciences, 2020, 21, 5604.	4.1	23
147	Reassessment of the Transport Mechanism of the Human Zinc Transporter SLC39A2. Biochemistry, 2018, 57, 3976-3986.	2.5	22
148	Inactivation-mimicking block of the epithelial calcium channel TRPV6. Science Advances, 2020, 6, .	10.3	22
149	Mutation in the Monocarboxylate Transporter 12 Gene Affects Guanidinoacetate Excretion but Does Not Cause Glucosuria. Journal of the American Society of Nephrology: JASN, 2016, 27, 1426-1436.	6.1	21
150	Natural product inspired optimization of a selective TRPV6 calcium channel inhibitor. RSC Medicinal Chemistry, 2020, 11, 1032-1040.	3.9	21
151	Sequence Features of Mitochondrial Transporter Protein Families. Biomolecules, 2020, 10, 1611.	4.0	21
152	TRPV5 and TRPV6 Calcium-Selective Channels. , 2017, , 241-274.		21
153	Oncogenic KRAS mutations enhance amino acid uptake by colorectal cancer cells via the hippo signaling effector YAP1. Molecular Oncology, 2021, 15, 2782-2800.	4.6	19
154	Nonradioactive monitoring of organic and inorganic solute transport into single Xenopus oocytes by capillary zone electrophoresis. Biophysical Journal, 1996, 70, 998-1005.	0.5	18
155	Membrane permeability the diversity of transmembrane transport processes. Current Opinion in Cell Biology, 1997, 9, 543-546.	5.4	17
156	K+ amino acid transporter KAAT1 mutant Y147F has increased transport activity and altered substrate selectivity. Journal of Experimental Biology, 2003, 206, 245-254.	1.7	17
157	Capsaicin-like analogue induced selective apoptosis in A2058 melanoma cells: Design, synthesis and molecular modeling. Bioorganic and Medicinal Chemistry, 2019, 27, 2893-2904.	3.0	16
158	Unraveling the structural elements of pH sensitivity and substrate binding in the human zinc transporter SLC39A2 (ZIP2). Journal of Biological Chemistry, 2019, 294, 8046-8063.	3.4	16
159	Urea transporters in kidney: molecular analysis and contribution to the urinary concentrating process. American Journal of Physiology - Renal Physiology, 1998, 275, F319-F324.	2.7	15
160	Mechanistic basis of the inhibition of SLC11/NRAMP-mediated metal ion transport by bis-isothiourea substituted compounds. ELife, 2019, 8, .	6.0	15
161	Concise Asymmetric Synthesis and Pharmacological Characterization of All Stereoisomers of Glutamate Transporter Inhibitor TFB-TBOA and Synthesis of EAAT Photoaffinity Probes. ACS Chemical Neuroscience, 2016, 7, 534-539.	3.5	14
162	High resolution preparative gel electrophoresis of DNA fragments and plasmid DNA using a continuous elution apparatus. Analytical Biochemistry, 1986, 159, 280-286.	2.4	13

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163	Photoswitchable Inhibitor of the Calcium Channel TRPV6. ACS Medicinal Chemistry Letters, 2019, 10, 1341-1345.	2.8	13
164	Ca2+/Calmodulin Binding to STIM1 Hydrophobic Residues Facilitates Slow Ca2+-Dependent Inactivation of the Orai1 Channel. Cellular Physiology and Biochemistry, 2020, 54, 252-270.	1.6	13
165	Apparatus and method for preparative gel electrophoresis. Analytical Biochemistry, 1984, 142, 445-454.	2.4	12
166	Synthesis, Maturation, and Trafficking of Human Na+-Dicarboxylate Cotransporter NaDC1 Requires the Chaperone Activity of Cyclophilin B. Journal of Biological Chemistry, 2011, 286, 11242-11253.	3.4	12
167	The amino acid sequence of thiogalactoside transacetylase of Escherichia coli. Biochimie, 1985, 67, 101-108.	2.6	11
168	Expression, Purification and Low-Resolution Structure of Human Vitamin C Transporter SVCT1 (SLC23A1). PLoS ONE, 2013, 8, e76427.	2.5	11
169	Development and Validation of a Fast and Homogeneous Cell-Based Fluorescence Screening Assay for Divalent Metal Transporter 1 (DMT1/SLC11A2) Using the FLIPR Tetra. Journal of Biomolecular Screening, 2014, 19, 900-908.	2.6	11
170	Structure and pharmacology of proton-linked peptide transporters. Journal of Controlled Release, 1997, 46, 31-38.	9.9	10
171	Development of the First Fluorescence Screening Assay for the SLC39A2 Zinc Transporter. Journal of Biomolecular Screening, 2014, 19, 909-916.	2.6	10
172	Electrophysiological characterization of a diverse group of sugar transporters from Trichoderma reesei. Scientific Reports, 2021, 11, 14678.	3.3	10
173	The Molecular Physiology of Sodium- and Proton-Coupled Solute Transporters. Physiology, 1998, 13, 123-131.	3.1	9
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175	The sodium/proton exchanger NHA2 regulates blood pressure through a WNK4-NCC dependent pathway in the kidney. Kidney International, 2021, 99, 350-363.	5.2	8
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