

Ernest M Wright

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2885126/ernest-m-wright-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

127
papers

10,261
citations

53
h-index

100
g-index

140
ext. papers

11,218
ext. citations

6.3
avg, IF

6.31
L-index

#	Paper	IF	Citations
127	Expression cloning and cDNA sequencing of the Na ⁺ /glucose co-transporter. <i>Nature</i> , 1987 , 330, 379-81	50.4	937
126	Biology of human sodium glucose transporters. <i>Physiological Reviews</i> , 2011 , 91, 733-94	47.9	870
125	The crystal structure of a sodium galactose transporter reveals mechanistic insights into Na ⁺ /sugar symport. <i>Science</i> , 2008 , 321, 810-4	33.3	434
124	Renal Na(+)-glucose cotransporters. <i>American Journal of Physiology - Renal Physiology</i> , 2001 , 280, F10-8	4.3	419
123	Thyroid Na ⁺ /I ⁻ symporter. Mechanism, stoichiometry, and specificity. <i>Journal of Biological Chemistry</i> , 1997 , 272, 27230-8	5.4	331
122	A glucose sensor hiding in a family of transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11753-8	11.5	262
121	Renal sodium-glucose transport: role in diabetes mellitus and potential clinical implications. <i>Kidney International</i> , 2009 , 75, 1272-1277	9.9	227
120	Defects in Na ⁺ /glucose cotransporter (SGLT1) trafficking and function cause glucose-galactose malabsorption. <i>Nature Genetics</i> , 1996 , 12, 216-20	36.3	222
119	The sodium/glucose cotransport family SLC5. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 447, 510-8	4.6	216
118	Probing SGLT2 as a therapeutic target for diabetes: basic physiology and consequences. <i>Diabetes and Vascular Disease Research</i> , 2015 , 12, 78-89	3.3	214
117	Glucose transport by human renal Na ⁺ /D-glucose cotransporters SGLT1 and SGLT2. <i>American Journal of Physiology - Cell Physiology</i> , 2011 , 300, C14-21	5.4	178
116	Glucose transport families SLC5 and SLC50. <i>Molecular Aspects of Medicine</i> , 2013 , 34, 183-96	16.7	174
115	Structure and function of Na(+)-symporters with inverted repeats. <i>Current Opinion in Structural Biology</i> , 2009 , 19, 425-32	8.1	169
114	Intestinal absorption in health and disease--sugars. <i>Baillieres Best Practice and Research in Clinical Gastroenterology</i> , 2003 , 17, 943-56	2.5	167
113	The mechanism of sodium and substrate release from the binding pocket of vSGLT. <i>Nature</i> , 2010 , 468, 988-91	50.4	155
112	Regulation of Na ⁺ /glucose cotransporter expression by protein kinases in <i>Xenopus laevis</i> oocytes. <i>Journal of Biological Chemistry</i> , 1996 , 271, 14740-6	5.4	150
111	Functional expression of sodium-glucose transporters in cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4111-9	11.5	149

110	Water pumps. <i>Journal of Physiology</i> , 2002 , 542, 53-60	3.9	147
109	Characterization of a Na ⁺ /glucose cotransporter cloned from rabbit small intestine. <i>Journal of Membrane Biology</i> , 1989 , 110, 87-95	2.3	147
108	Membrane topology of the human Na ⁺ /glucose cotransporter SGLT1. <i>Journal of Biological Chemistry</i> , 1996 , 271, 1925-34	5.4	139
107	Kinetics of steady-state currents and charge movements associated with the rat Na ⁺ /glucose cotransporter. <i>Journal of Biological Chemistry</i> , 1995 , 270, 27099-105	5.4	135
106	Surprising versatility of Na ⁺ -glucose cotransporters: SLC5. <i>Physiology</i> , 2004 , 19, 370-6	9.8	126
105	Mechanisms of the human intestinal H ⁺ -coupled oligopeptide transporter hPEPT1. <i>Journal of Biological Chemistry</i> , 1996 , 271, 5430-7	5.4	116
104	Physiology of renal glucose handling via SGLT1, SGLT2 and GLUT2. <i>Diabetologia</i> , 2018 , 61, 2087-2097	10.3	113
103	Passive water and ion transport by cotransporters. <i>Journal of Physiology</i> , 1999 , 518, 195-202	3.9	110
102	Distribution of the SGLT1 Na ⁺ /glucose cotransporter and mRNA along the crypt-villus axis of rabbit small intestine. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 181, 1208-17	3.4	101
101	Proteomics on full-length membrane proteins using mass spectrometry. <i>Biochemistry</i> , 2000 , 39, 4237-4232		96
100	Biophysical characteristics of the pig kidney Na ⁺ /glucose cotransporter SGLT2 reveal a common mechanism for SGLT1 and SGLT2. <i>Journal of Biological Chemistry</i> , 1996 , 271, 32678-83	5.4	95
99	Role of Cl ⁻ in electrogenic Na ⁺ -coupled cotransporters GAT1 and SGLT1. <i>Journal of Biological Chemistry</i> , 2000 , 275, 37414-22	5.4	94
98	Kinetics of sodium D-glucose cotransport in bovine intestinal brush border vesicles. <i>Journal of Membrane Biology</i> , 1984 , 79, 41-51	2.3	91
97	Molecular basis for glucose-galactose malabsorption. <i>Cell Biochemistry and Biophysics</i> , 2002 , 36, 115-21	3.2	90
96	Regulation of the human Na ⁺ -dependent glucose cotransporter hSGLT2. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C348-54	5.4	87
95	Sugar binding to Na ⁺ /glucose cotransporters is determined by the carboxyl-terminal half of the protein. <i>Journal of Biological Chemistry</i> , 1996 , 271, 10029-34	5.4	79
94	Molecular characterization of <i>Vibrio parahaemolyticus</i> vSGLT: a model for sodium-coupled sugar cotransporters. <i>Journal of Biological Chemistry</i> , 2000 , 275, 25711-6	5.4	77
93	Functional expression of SGLTs in rat brain. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 299, C1277-84	5.4	74

92	Residue 457 controls sugar binding and transport in the Na(+)/glucose cotransporter. <i>Journal of Biological Chemistry</i> , 2001 , 276, 49188-94	5.4	74
91	Coupling between Na ⁺ , sugar, and water transport across the intestine. <i>Annals of the New York Academy of Sciences</i> , 2000 , 915, 54-66	6.5	71
90	Sugar uptake by intestinal basolateral membrane vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980 , 597, 112-24	3.8	71
89	Na ⁺ , Li ⁺ , and Cl ⁻ transport by brush border membranes from rabbit jejunum. <i>Journal of Membrane Biology</i> , 1983 , 74, 85-94	2.3	71
88	Five transmembrane helices form the sugar pathway through the Na(+)/glucose cotransporter. <i>Journal of Biological Chemistry</i> , 1997 , 272, 20324-7	5.4	70
87	Regional distribution of SGLT activity in rat brain in vivo. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 304, C240-7	5.4	66
86	Effect of temperature on nonelectrolyte permeation across the toad urinary bladder. <i>Journal of Membrane Biology</i> , 1976 , 29, 265-88	2.3	63
85	Structural selectivity of human SGLT inhibitors. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C373-82	5.4	61
84	Fluorescence studies of ligand-induced conformational changes of the Na(+)/glucose cotransporter. <i>Biochemistry</i> , 2002 , 41, 1250-8	3.2	61
83	Cation effects on protein conformation and transport in the Na(+)/glucose cotransporter. <i>Journal of Biological Chemistry</i> , 1997 , 272, 2110-5	5.4	60
82	Sodium cotransporters. <i>Current Opinion in Cell Biology</i> , 1996 , 8, 468-73	9	60
81	Molecular interactions between dipeptides, drugs and the human intestinal H ⁺ -oligopeptide cotransporter hPEPT1. <i>Journal of Physiology</i> , 2006 , 574, 149-66	3.9	58
80	Employing Escherichia coli to functionally express, purify, and characterize a human transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 8597-601	11.5	58
79	Urea transport by cotransporters. <i>Journal of Physiology</i> , 2000 , 528 Pt 2, 251-7	3.9	57
78	Regulation of the human Na(+)-glucose cotransporter gene, SGLT1, by HNF-1 and Sp1. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 278, G591-603	5.1	57
77	Neutralization of a conserved amino acid residue in the human Na(+)/glucose transporter (hSGLT1) generates a glucose-gated H ⁺ channel. <i>Journal of Biological Chemistry</i> , 2001 , 276, 1728-34	5.4	56
76	Voltage-clamp studies of the Na(+)/glucose cotransporter cloned from rabbit small intestine. <i>Pflugers Archiv European Journal of Physiology</i> , 1991 , 418, 79-85	4.6	54
75	Imino sugars are potent agonists of the human glucose sensor SGLT3. <i>Molecular Pharmacology</i> , 2007 , 71, 628-34	4.3	52

74	Assignment of the human intestinal Na ⁺ /glucose cotransporter gene (SGLT1) to the q11.2----qter region of chromosome 22. <i>Genomics</i> , 1989 , 4, 297-300	4.3	52
73	Common mechanisms of inhibition for the Na ⁺ /glucose (hSGLT1) and Na ⁺ /Cl ⁻ /GABA (hGAT1) cotransporters. <i>British Journal of Pharmacology</i> , 2001 , 134, 484-95	8.6	51
72	Biosynthesis of the cloned intestinal Na ⁺ /glucose cotransporter. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991 , 1064, 360-4	3.8	50
71	I. Glucose galactose malabsorption. <i>American Journal of Physiology - Renal Physiology</i> , 1998 , 275, G879-83.1	3.1	48
70	Ion permeability of rabbit intestinal brush border membrane vesicles. <i>Journal of Membrane Biology</i> , 1984 , 78, 119-27	2.3	47
69	Conformational dynamics of hSGLT1 during Na ⁺ /glucose cotransport. <i>Journal of General Physiology</i> , 2006 , 128, 701-20	3.4	46
68	Missense mutations in SGLT1 cause glucose-galactose malabsorption by trafficking defects. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1999 , 1453, 297-303	6.9	46
67	Glycosylation of the rabbit intestinal brush border Na ⁺ /glucose cotransporter. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1103, 37-44	3.8	46
66	Specificity of the Na ⁺ -dependent monocarboxylic acid transport pathway in rabbit renal brush border membranes. <i>Journal of Membrane Biology</i> , 1983 , 72, 213-21	2.3	46
65	Revisiting the physiological roles of SGLTs and GLUTs using positron emission tomography in mice. <i>Journal of Physiology</i> , 2016 , 594, 4425-38	3.9	46
64	Bridging the gap between structure and kinetics of human SGLT1. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C1293-305	5.4	44
63	Regulation of the mouse retinal taurine transporter (TAUT) by protein kinases in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , 1996 , 392, 250-4	3.8	43
62	Water transport by the Na ⁺ /glucose cotransporter under isotonic conditions Proceedings of a meeting held in Paris, 27-30 April, 1997, as a tribute to Jacques Bourguet.*. <i>Biology of the Cell</i> , 1997 , 89, 307-312	3.5	41
61	Expression and characterization of the intestinal Na ⁺ /glucose cotransporter in COS-7 cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1990 , 1048, 100-4		41
60	Water transport by the renal Na ⁽⁺⁾ -dicarboxylate cotransporter. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 278, F777-83	4.3	38
59	SGLT2 inhibitors act from the extracellular surface of the cell membrane. <i>Physiological Reports</i> , 2014 , 2, e12058	2.6	36
58	Water permeation through the sodium-dependent galactose cotransporter vSGLT. <i>Biophysical Journal</i> , 2010 , 99, L56-8	2.9	36
57	Sodium-dependent reorganization of the sugar-binding site of SGLT1. <i>Biochemistry</i> , 2007 , 46, 13391-4063.2	3.2	36

56	Perturbation analysis of the voltage-sensitive conformational changes of the Na ⁺ /glucose cotransporter. <i>Journal of General Physiology</i> , 2005 , 125, 13-36	3.4	36
55	Na ⁺ -to-sugar stoichiometry of SGLT3. <i>American Journal of Physiology - Renal Physiology</i> , 2001 , 280, F278- 83 36		
54	Dapagliflozin Binds Specifically to Sodium-Glucose Cotransporter 2 in the Proximal Renal Tubule. <i>Journal of the American Society of Nephrology: JASN</i> , 2017 , 28, 802-810	12.7	35
53	Baculovirus-mediated expression of the Na ⁺ /glucose cotransporter in Sf9 cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1104, 151-9	3.8	34
52	Functional identification and characterization of sodium binding sites in Na symporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4557-66	11.5	30
51	Arginine-427 in the Na ⁺ /glucose cotransporter (SGLT1) is involved in trafficking to the plasma membrane. <i>FEBS Letters</i> , 1995 , 377, 181-4	3.8	30
50	Structural and functional significance of water permeation through cotransporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6887-E6894	11.5	29
49	Functional asymmetry of the human Na ⁺ /glucose transporter (hSGLT1) in bacterial membrane vesicles. <i>Biochemistry</i> , 2003 , 42, 9147-52	3.2	29
48	Novel and Unexpected Functions of SGLTs. <i>Physiology</i> , 2017 , 32, 435-443	9.8	28
47	Thermodynamic analysis of nonelectrolyte permeation across the toad urinary bladder. <i>Journal of Membrane Biology</i> , 1976 , 29, 289-312	2.3	28
46	Stochastic steps in secondary active sugar transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3960-6	11.5	27
45	Purification and functional reconstitution of a truncated human Na ⁽⁺⁾ /glucose cotransporter (SGLT1) expressed in E. coli. <i>FEBS Letters</i> , 1999 , 459, 386-90	3.8	26
44	Molecular mechanism of dipeptide and drug transport by the human renal H ⁺ /oligopeptide cotransporter hPEPT2. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F1422-32	4.3	23
43	Structural determinants of water permeation through the sodium-galactose transporter vSGLT. <i>Biophysical Journal</i> , 2014 , 106, 1280-9	2.9	22
42	Evidence for the involvement of Ala 166 in coupling Na ⁽⁺⁾ to sugar transport through the human Na ⁽⁺⁾ /glucose cotransporter. <i>Biochemistry</i> , 2001 , 40, 11897-904	3.2	22
41	Neutralization of conservative charged transmembrane residues in the Na ⁺ /glucose cotransporter SGLT1. <i>Biochemistry</i> , 1998 , 37, 10522-8	3.2	22
40	Structure of functional single AQP0 channels in phospholipid membranes. <i>Journal of Molecular Biology</i> , 2003 , 325, 201-10	6.5	21
39	Coupled sodium/glucose cotransport by SGLT1 requires a negative charge at position 454. <i>Biochemistry</i> , 2004 , 43, 13175-84	3.2	20

38	Mapping the urea channel through the rabbit Na(+)-glucose cotransporter SGLT1. <i>Journal of Physiology</i> , 2001 , 535, 419-25	3.9	20
37	Characterization of the <i>Vibrio parahaemolyticus</i> Na ⁺ /Glucose cotransporter. A bacterial member of the sodium/glucose transporter (SGLT) family. <i>Journal of Biological Chemistry</i> , 2000 , 275, 25959-64	5.4	20
36	Positron emission tomography of sodium glucose cotransport activity in high grade astrocytomas. <i>Journal of Neuro-Oncology</i> , 2018 , 138, 557-569	4.8	19
35	Inhibitor binding mode and allosteric regulation of Na-glucose symporters. <i>Nature Communications</i> , 2018 , 9, 5245	17.4	19
34	How drugs interact with transporters: SGLT1 as a model. <i>Journal of Membrane Biology</i> , 2008 , 223, 87-106	6.3	17
33	A reinvestigation of the secondary structure of functionally active vSGLT, the vibrio sodium/galactose cotransporter. <i>Biochemistry</i> , 2006 , 45, 1470-9	3.2	17
32	Local conformational changes in the <i>Vibrio</i> Na ⁺ /galactose cotransporter. <i>Biochemistry</i> , 2004 , 43, 3620-7	3.2	16
31	Assignment of the human Na ⁺ /glucose cotransporter gene SGLT1 to chromosome 22q13.1. <i>Genomics</i> , 1993 , 17, 752-4	4.3	16
30	Examination of the Na ⁺ -induced conformational change of the intestinal brush border sodium/glucose symporter using fluorescent probes. <i>Biochemistry</i> , 1987 , 26, 4272-9	3.2	16
29	The importance of being aromatic: Interactions in sodium symporters. <i>Biochemistry</i> , 2012 , 51, 9480-7	3.2	15
28	Conformational transitions of the sodium-dependent sugar transporter, vSGLT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2742-E2751	11.5	14
27	Preparative scale isolation of basal-lateral plasma membranes from rat intestinal epithelial cells. <i>Membrane Biochemistry</i> , 1978 , 1, 177-85		14
26	Intestinal absorption of glucose in mice as determined by positron emission tomography. <i>Journal of Physiology</i> , 2018 , 596, 2473-2489	3.9	12
25	Transport properties of intestinal basolateral membranes. <i>Annals of the New York Academy of Sciences</i> , 1981 , 372, 626-36	6.5	11
24	Active site voltage clamp fluorometry of the sodium glucose cotransporter hSGLT1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9980-E9988	11.5	10
23	Sugar Absorption 2006 , 1653-1665		10
22	SGLT2 and cancer. <i>Pflugers Archiv European Journal of Physiology</i> , 2020 , 472, 1407-1414	4.6	10
21	Ligand-induced differences in secondary structure of the <i>Vibrio parahaemolyticus</i> Na ⁺ /galactose cotransporter. <i>Biochemistry</i> , 2002 , 41, 8082-6	3.2	9

20	Prenatal identification of a heterozygous status in two fetuses at risk for glucose-galactose malabsorption. <i>Prenatal Diagnosis</i> , 1996 , 16, 458-62	3.2	9
19	Sugar Absorption 2012 , 1583-1593		7
18	Molecular biology of Na ⁺ /glucose cotransport. <i>Biochemical Society Transactions</i> , 1989 , 17, 810-1	5.1	6
17	Chapter 13 Molecular aspects of intestinal brush-border Na ⁺ /glucose transport. <i>Current Topics in Membranes</i> , 2000 , 50, 499-516	2.2	5
16	Fingerprints of hSGLT5 sugar and cation selectivity. <i>American Journal of Physiology - Cell Physiology</i> , 2014 , 306, C864-70	5.4	4
15	Glucose Reabsorption in The Kidney 2013 , 2393-2404		4
14	Electrophysiological properties of the mouse Na ⁺ /Cl ⁻ -dependent taurine transporter (mTauT-1): steady-state kinetics: stoichiometry of taurine transport. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 526, 197-204	3.6	4
13	Diseases of Renal Glucose Handling 2009 , 131-140		3
12	A Kinetic Model for Secondary Active Transport. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2002 , 65-83	0.5	3
11	Sugar Transport Across Epithelia. <i>Physiology in Health and Disease</i> , 2020 , 211-254	0.2	1
10	A Frog Model for CSF Secretion. <i>Physiology in Health and Disease</i> , 2020 , 83-97	0.2	1
9	The Molecular Basis of Glucose Galactose Malabsorption in a Large Swedish Pedigree. <i>Function</i> , 2021 , 2, zqab040	6.1	1
8	Sugar Absorption 2018 , 1051-1062		0
7	SGLT2 Inhibitors: Physiology and Pharmacology.. <i>Kidney360</i> , 2021 , 2, 2027-2037	1.8	0
6	Regulation of Neutral Amino Acid Transport By the SARS-CoV-2 Receptor ACE2. <i>Function</i> , 2021 , 2, zqab048	0.8	0
5	Disorders of Epithelial Transport in the Small Intestine1259-1283		
4	Models for Isotonic Transport Across Apical Membranes of Epithelial Cells 2000 , 195-201		
3	Imino sugars potently activate the human glucose sensor SGLT3. <i>FASEB Journal</i> , 2007 , 21, A530	0.9	

- 2 Trans effects of Na⁺ and glucose on Na⁺/glucose co-transport. *FASEB Journal*, **2010**, 24, 1014.3 0.9
- 1 Searching for the Na⁺ site of hSGLT1. *FASEB Journal*, **2012**, 26, 694.13 0.9