

Shimon Schuldiner

List of Publications by Year in descending order

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131
papers

10,057
citations

30047

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37183

96
g-index

142
all docs

142
docs citations

142
times ranked

3720
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of DeltapH in Chloroplasts. 2. Fluorescent Amines as a Probe for the Determination of DeltapH in Chloroplasts. FEBS Journal, 1972, 25, 64-70.	0.2	634
2	A cDNA that suppresses MPP+ toxicity encodes a vesicular amine transporter. Cell, 1992, 70, 539-551.	13.5	572
3	Mechanism of Transport and Storage of Neurotransmitter. Critical Reviews in Biochemistry, 1987, 22, 1-38.	7.5	438
4	pH homeostasis in bacteria. BBA - Biomembranes, 1981, 650, 151-166.	7.9	403
5	Mechanisms of active transport in isolated bacterial membrane vesicles. 28. Membrane potential and active transport in membrane vesicles from Escherichia coli. Biochemistry, 1975, 14, 5451-5461.	1.2	341
6	The electrochemical gradient of protons and its relationship to active transport in Escherichia coli membrane vesicles.. Proceedings of the National Academy of Sciences of the United States of America, 1976, 73, 1892-1896.	3.3	341
7	Na+/H+ antiport in Swiss 3T3 cells: mitogenic stimulation leads to cytoplasmic alkalization.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 7778-7782.	3.3	286
8	EmrE, an Escherichia coli 12-kDa Multidrug Transporter, Exchanges Toxic Cations and H+ and Is Soluble in Organic Solvents. Journal of Biological Chemistry, 1995, 270, 6856-6863.	1.6	283
9	Characterization of a Na+/H+ antiporter gene of Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 2615-2619.	3.3	226
10	Proton electrochemical gradient in Escherichia coli cells and its relation to active transport of lactose. Biochemistry, 1979, 18, 669-673.	1.2	215
11	Escherichia coli intracellular pH, membrane potential, and cell growth. Journal of Bacteriology, 1984, 158, 246-252.	1.0	198
12	Sodium-proton antiport in isolated membrane vesicles of Escherichia coli. Biochemistry, 1978, 17, 706-711.	1.2	196
13	A membrane-embedded glutamate is required for ligand binding to the multidrug transporter EmrE. EMBO Journal, 2000, 19, 234-240.	3.5	187
14	Three-dimensional structure of the bacterial multidrug transporter EmrE shows it is an asymmetric homodimer. EMBO Journal, 2003, 22, 6175-6181.	3.5	186
15	A coordinated network of transporters with overlapping specificities provides a robust survival strategy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9051-9056.	3.3	172
16	Histidine-226 is part of the pH sensor of NhaA, a Na+/H+ antiporter in Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 1212-1216.	3.3	149
17	EmrE, a model for studying evolution and mechanism of ion-coupled transporters. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 748-762.	1.1	143
18	Molecular physiology of Na+/H+ antiporters, key transporters in circulation of Na+ and H+ in cells. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1185, 129-151.	0.5	138

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19	In vitro synthesis of fully functional EmrE, a multidrug transporter, and study of its oligomeric state. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1519-1524.	3.3	135
20	An Essential Glutamyl Residue in EmrE, a Multidrug Antiporter from Escherichia coli. Journal of Biological Chemistry, 2000, 275, 5264-5269.	1.6	128
21	A Molecular Glimpse of Vesicular Monoamine Transporters. Journal of Neurochemistry, 1994, 62, 2067-2078.	2.1	120
22	Role of a transmembrane pH gradient in epinephrine transport by chromaffin granule membrane vesicles.. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 3713-3716.	3.3	113
23	Projection structure of NhaA, a secondary transporter from Escherichia coli, at 4.0 Å resolution. EMBO Journal, 1999, 18, 3558-3563.	3.5	113
24	Negative Dominance Studies Demonstrate the Oligomeric Structure of EmrE, a Multidrug Antiporter from Escherichia coli. Journal of Biological Chemistry, 1996, 271, 31044-31048.	1.6	109
25	Structural conservation in the major facilitator superfamily as revealed by comparative modeling. Protein Science, 2004, 13, 1832-1840.	3.1	104
26	Determining the Secondary Structure and Orientation of EmrE, a Multi-Drug Transporter, Indicates a Transmembrane Four-Helix Bundle. Biochemistry, 1996, 35, 7233-7238.	1.2	101
27	The projection structure of EmrE, a proton-linked multidrug transporter from Escherichia coli, at 7 Å resolution. EMBO Journal, 2001, 20, 77-81.	3.5	101
28	Scanning Cysteine Accessibility of EmrE, an H ⁺ -coupled Multidrug Transporter from Escherichia coli, Reveals a Hydrophobic Pathway for Solutes. Journal of Biological Chemistry, 1999, 274, 19480-19486.	1.6	94
29	Energetics of reserpine binding and occlusion by the chromaffin granule biogenic amine transporter. Biochemistry, 1990, 29, 603-608.	1.2	91
30	Equilibrium between two forms of the lac carrier protein in energized and nonenergized membrane vesicles from Escherichia coli. Biochemistry, 1976, 15, 5126-5131.	1.2	87
31	NMR investigation of the multidrug transporter EmrE, an integral membrane protein. FEBS Journal, 1998, 254, 610-619.	0.2	86
32	A Model for Coupling of H ⁺ and Substrate Fluxes Based on "Time-Sharing" of a Common Binding Site. Biochemistry, 2000, 39, 14711-14719.	1.2	85
33	[74] The use of flow dialysis for determinations of $\hat{p}H$ and active transport. Methods in Enzymology, 1979, 55, 680-688.	0.4	83
34	Crosslinking of membrane-embedded cysteines reveals contact points in the EmrE oligomer. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12043-12048.	3.3	83
35	EmrE, a Multidrug Transporter from Escherichia coli, Transports Monovalent and Divalent Substrates with the Same Stoichiometry. Journal of Biological Chemistry, 2004, 279, 48787-48793.	1.6	83
36	Intracellular pH and membrane potential as regulators in the prokaryotic cell. Journal of Membrane Biology, 1987, 95, 189-198.	1.0	81

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37	Reserpine as a competitive and reversible inhibitor of the catecholamine transporter of bovine chromaffin granules. <i>FEBS Letters</i> , 1979, 100, 175-178.	1.3	71
38	The pharmacological profile of the vesicular monoamine transporter resembles that of multidrug transporters. <i>FEBS Letters</i> , 1995, 377, 201-207.	1.3	67
39	A common binding site for substrates and protons in EmrE, an ion-coupled multidrug transporter. <i>FEBS Letters</i> , 2000, 476, 93-97.	1.3	67
40	Stimulation of ATP Synthesis by a Membrane Potential in Chloroplasts. <i>FEBS Journal</i> , 1973, 39, 455-462.	0.2	66
41	[27] Intracellular pH regulation in bacterial cells. <i>Methods in Enzymology</i> , 1986, 125, 337-352.	0.4	66
42	In Vitro Monomer Swapping in EmrE, a Multidrug Transporter from <i>Escherichia coli</i> , Reveals That the Oligomer Is the Functional Unit. <i>Journal of Biological Chemistry</i> , 2001, 276, 48243-48249.	1.6	65
43	Direct Evidence for Substrate-induced Proton Release in Detergent-solubilized EmrE, a Multidrug Transporter. <i>Journal of Biological Chemistry</i> , 2004, 279, 9951-9955.	1.6	65
44	Cloning and functional expression of a tetrabenazine sensitive vesicular monoamine transporter from bovine chromaffin granules. <i>FEBS Letters</i> , 1994, 338, 16-22.	1.3	63
45	The ins and outs of vesicular monoamine transporters. <i>Journal of General Physiology</i> , 2018, 150, 671-682.	0.9	63
46	$\tilde{p}H$ and membrane potential in bacterial chromatophores. <i>FEBS Letters</i> , 1974, 49, 174-177.	1.3	62
47	Topological Analysis of NhaA, a Na ⁺ /H ⁺ Antiporter from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 32288-32292.	1.6	62
48	Functional Analysis of Novel Multidrug Transporters from Human Pathogens. <i>Journal of Biological Chemistry</i> , 2001, 276, 48250-48256.	1.6	62
49	Reversible effects of chaotropic agents on the proton permeability of <i>Escherichia coli</i> membrane vesicles.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1975, 72, 3387-3391.	3.3	61
50	An Amino Acid Cluster around the Essential Glu-14 Is Part of the Substrate- and Proton-binding Domain of EmrE, a Multidrug Transporter from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 16082-16087.	1.6	59
51	In vitro Unfolding and Refolding of the Small Multidrug Transporter EmrE. <i>Journal of Molecular Biology</i> , 2009, 393, 815-832.	2.0	59
52	The fast release of sticky protons: Kinetics of substrate binding and proton release in a multidrug transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17989-17994.	3.3	58
53	A Single Carboxyl Mutant of the Multidrug Transporter EmrE Is Fully Functional. <i>Journal of Biological Chemistry</i> , 2001, 276, 12744-12748.	1.6	57
54	When biochemistry meets structural biology: the cautionary tale of EmrE. <i>Trends in Biochemical Sciences</i> , 2007, 32, 252-258.	3.7	56

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55	Substrate-Induced Tryptophan Fluorescence Changes in EmrE, the Smallest Ion-Coupled Multidrug Transporter. <i>Biochemistry</i> , 2005, 44, 7369-7377.	1.2	53
56	A single locus in <i>Escherichia coli</i> governs growth in alkaline pH and on carbon sources whose transport is sodium dependent. <i>FEBS Letters</i> , 1980, 116, 177-180.	1.3	52
57	Membrane potential as a driving force for ATP synthesis in chloroplasts. <i>FEBS Letters</i> , 1972, 28, 173-176.	1.3	51
58	Topologically Random Insertion of EmrE Supports a Pathway for Evolution of Inverted Repeats in Ion-coupled Transporters. <i>Journal of Biological Chemistry</i> , 2010, 285, 15234-15244.	1.6	51
59	The role of a transmembrane pH gradient in 5-hydroxy tryptamine uptake by synaptic vesicles from rat brain. <i>FEBS Letters</i> , 1979, 98, 237-240.	1.3	49
60	Solubilization and reconstitution of the catecholamine transporter from bovine chromaffin granules. <i>Biochemistry</i> , 1979, 18, 4781-4785.	1.2	49
61	The membrane topology of EmrE - a small multidrug transporter from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 2004, 562, 193-196.	1.3	49
62	Parallel topology of genetically fused EmrE homodimers. <i>EMBO Journal</i> , 2008, 27, 17-26.	3.5	48
63	MH1, A Second-site Revertant of an <i>Escherichia coli</i> Mutant Lacking Na ⁺ /H ⁺ Antiporters (NhaA/NhaB), Regains Na ⁺ Resistance and a Capacity to Excrete Na ⁺ in a pH-independent Fashion. <i>Journal of Biological Chemistry</i> , 1995, 270, 3816-3822.	1.6	47
64	Anion Permeability of Chloroplasts. <i>FEBS Journal</i> , 1971, 19, 227-231.	0.2	45
65	Modification of the pH Profile and Tetrabenazine Sensitivity of Rat VMAT1 by Replacement of Aspartate 404 with Glutamate. <i>Journal of Biological Chemistry</i> , 1996, 271, 13048-13054.	1.6	45
66	Probing the Conformation of NhaA, a Na ⁺ /H ⁺ Antiporter from <i>Escherichia coli</i> , with Trypsin. <i>Biochemistry</i> , 1997, 36, 14572-14576.	1.2	44
67	Characterization of an Archaeal Multidrug Transporter with a Unique Amino Acid Composition. <i>Journal of Biological Chemistry</i> , 2003, 278, 12000-12005.	1.6	44
68	Identification of a Glycine Motif Required for Packing in EmrE, a Multidrug Transporter from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 12276-12283.	1.6	43
69	On the mechanism of the energy-dependent quenching of atebriin fluorescence in isolated chloroplasts. <i>FEBS Letters</i> , 1971, 14, 233-236.	1.3	42
70	Replacements of Histidine 226 of NhaA-Na ⁺ /H ⁺ Antiporter of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 26813-26817.	1.6	42
71	Identification of Tyrosine Residues Critical for the Function of an Ion-coupled Multidrug Transporter. <i>Journal of Biological Chemistry</i> , 2006, 281, 18715-18722.	1.6	42
72	3D Model of the <i>Escherichia coli</i> Multidrug Transporter MdfA Reveals an Essential Membrane-Embedded Positive Charge. <i>Biochemistry</i> , 2005, 44, 14870-14880.	1.2	41

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73	Biogenesis of chloroplast membranes. III. Light-dependent induction of proton pump activity in whole cells and its correlation to cytochrome f photo-oxidation during greening of a <i>Chlamydomonas reinhardtii</i> mutant (γ -1). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1969, 180, 165-177.	0.5	40
74	Identification of molecular hinge points mediating alternating access in the vesicular monoamine transporter VMAT2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1332-41.	3.3	40
75	Electrogenic transport of biogenic amines in chromaffin granule membrane vesicles. <i>FEBS Letters</i> , 1980, 111, 83-86.	1.3	39
76	On Parallel and Antiparallel Topology of a Homodimeric Multidrug Transporter. <i>Journal of Biological Chemistry</i> , 2006, 281, 36205-36212.	1.6	39
77	Transforming a drug/H ⁺ antiporter into a polyamine importer by a single mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16894-16899.	3.3	39
78	Energy-dependent binding of dansylgalactoside to the lac carrier protein: direct binding measurements.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976, 73, 109-112.	3.3	36
79	Homology of a vesicular amine transporter to a gene conferring resistance to 1-methyl-4-phenylpyridinium.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 9730-9733.	3.3	36
80	Exploring the Binding Domain of EmrE, the Smallest Multidrug Transporter. <i>Journal of Biological Chemistry</i> , 2005, 280, 32849-32855.	1.6	36
81	Cloning, sequencing and expression of the <i>nhaA</i> and <i>nhaR</i> genes from <i>Salmonella enteritidis</i> . <i>Archives of Microbiology</i> , 1992, 157, 323-328.	1.0	33
82	Histidine-419 plays a role in energy coupling in the vesicular monoamine transporter from rat. <i>FEBS Letters</i> , 1994, 356, 145-150.	1.3	33
83	Small is Mighty: EmrE, a Multidrug Transporter as an Experimental Paradigm. <i>Physiology</i> , 2001, 16, 130-134.	1.6	33
84	A Structural Model of EmrE, a Multi-Drug Transporter from <i>Escherichia coli</i> . <i>Biophysical Journal</i> , 2004, 86, 3335-3348.	0.2	30
85	MAS solid-state NMR studies on the multidrug transporter EmrE. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 3036-3043.	1.4	29
86	Undecided membrane proteins insert in random topologies. Up, down and sideways: it does not really matter. <i>Trends in Biochemical Sciences</i> , 2012, 37, 215-219.	3.7	29
87	Competition as a Way of Life for H ⁺ -Coupled Antiporters. <i>Journal of Molecular Biology</i> , 2014, 426, 2539-2546.	2.0	29
88	Identification of Residues in the Translocation Pathway of EmrE, a Multidrug Antiporter from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 21193-21199.	1.6	27
89	Expression and function of the rat vesicular monoamine transporter 2. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C1004-C1011.	2.1	27
90	Photoreactions of Chloroplasts in a Glycine Medium. <i>FEBS Journal</i> , 1971, 22, 439-444.	0.2	26

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91	Exploring the Role of a Unique Carboxyl Residue in EmrE by Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2005, 280, 7487-7492.	1.6	25
92	Bacterial membrane potential analyzed by spectrofluorocytometry. <i>Current Microbiology</i> , 1985, 12, 183-185.	1.0	24
93	Covalent modification of the amine transporter with N,N'-dicyclohexylcarbodiimide. <i>Biochemistry</i> , 1991, 30, 6490-6494.	1.2	24
94	Directed Evolution Reveals Hidden Properties of VMAT, a Neurotransmitter Transporter. <i>Journal of Biological Chemistry</i> , 2010, 285, 5076-5084.	1.6	24
95	Specificity Determinants in Small Multidrug Transporters. <i>Journal of Molecular Biology</i> , 2015, 427, 468-477.	2.0	24
96	Fluorescent galactosides as probes for the lac carrier protein. <i>BBA - Biomembranes</i> , 1977, 472, 399-418.	7.9	23
97	Controversy Over EmrE Structure. <i>Science</i> , 2007, 317, 748-751.	6.0	22
98	³¹ P-CP-MAS NMR studies on TPP+bound to the ion-coupled multidrug transport protein EmrE. <i>FEBS Letters</i> , 2000, 480, 127-131.	1.3	21
99	The ins and outs of drug transport. <i>Nature</i> , 2006, 443, 157-157.	13.7	21
100	Identification of Conformationally Sensitive Residues Essential for Inhibition of Vesicular Monoamine Transport by the Noncompetitive Inhibitor Tetrabenazine. <i>Journal of Biological Chemistry</i> , 2013, 288, 32160-32171.	1.6	21
101	The Escherichia coli effluxome. <i>Research in Microbiology</i> , 2018, 169, 357-362.	1.0	21
102	Acidification of Cytoplasm in Escherichia coli Provides a Strategy to Cope with Stress and Facilitates Development of Antibiotic Resistance. <i>Scientific Reports</i> , 2020, 10, 9954.	1.6	21
103	Emulating proton-induced conformational changes in the vesicular monoamine transporter VMAT2 by mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7390-E7398.	3.3	20
104	A Transporter Interactome Is Essential for the Acquisition of Antimicrobial Resistance to Antibiotics. <i>PLoS ONE</i> , 2016, 11, e0152917.	1.1	20
105	Topology Determination of Untagged Membrane Proteins. <i>Methods in Molecular Biology</i> , 2013, 1033, 121-130.	0.4	19
106	Amiloride and harmaline are potent inhibitors of NhaB a Na ⁺ /H ⁺ -antiporter from Escherichia coli. <i>FEBS Letters</i> , 1995, 365, 18-22.	1.3	18
107	Vesicular monoamine transporters heterologously expressed in the yeast <i>Saccharomyces cerevisiae</i> display high-affinity tetrabenazine binding. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1510, 426-441.	1.4	18
108	Characterization of Bacterial Drug Antiporters Homologous to Mammalian Neurotransmitter Transporters. <i>Journal of Bacteriology</i> , 2005, 187, 7518-7525.	1.0	18

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109	New Substrates on the Block: Clinically Relevant Resistances for EmrE and Homologues. <i>Journal of Bacteriology</i> , 2012, 194, 6766-6770.	1.0	18
110	Molecular biology of Na ⁺ /H ⁺ antiporters: Molecular devices that couple the Na ⁺ and H ⁺ circulation in cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1187, 206-210.	0.5	17
111	Reconstitution of lac carrier function in cholate-extracted membranes from <i>Escherichiacoli</i> . <i>Biochemical and Biophysical Research Communications</i> , 1979, 91, 854-861.	1.0	15
112	Modification of arginyl or histidyl groups affects the energy coupling of the amine transporter. <i>Biochemistry</i> , 1992, 31, 12500-12503.	1.2	15
113	Deletion of the major <i>Escherichia coli</i> multidrug transporter AcrB reveals transporter plasticity and redundancy in bacterial cells. <i>PLoS ONE</i> , 2019, 14, e0218828.	1.1	15
114	EmrE, a Small <i>Escherichia coli</i> Multidrug Transporter, Protects <i>Saccharomyces cerevisiae</i> from Toxins by Sequestration in the Vacuole. <i>Journal of Bacteriology</i> , 1999, 181, 949-956.	1.0	15
115	Microenvironment of the binding site in the lac carrier protein.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977, 74, 1851-1854.	3.3	13
116	Glycosylation of a Vesicular Monoamine Transporter: A Mutation in a Conserved Proline Residue Affects the Activity, Glycosylation, and Localization of the Transporter. <i>Journal of Neurochemistry</i> , 2002, 71, 2518-2527.	2.1	12
117	Functionally Important Carboxyls in a Bacterial Homologue of the Vesicular Monoamine Transporter (VMAT). <i>Journal of Biological Chemistry</i> , 2014, 289, 34229-34240.	1.6	9
118	Osmotic swelling allows fusion of Sendai virions with membranes of desialized erythrocytes and chromaffin granules. <i>Biochemistry</i> , 1987, 26, 3856-3864.	1.2	8
119	From Bacterial Antibiotic Resistance to Neurotransmitter Uptake.. <i>Annals of the New York Academy of Sciences</i> , 1994, 733, 174-184.	1.8	8
120	How Does <i>Escherichia coli</i> Regulate Internal pH?. , 1982, , 65-73.		8
121	The Amine Transporter from Bovine Chromaffin Granules: Photolabeling and Partial Purification. <i>Annals of the New York Academy of Sciences</i> , 1987, 493, 189-193.	1.8	7
122	Molecular and Biochemical Studies of Rat Vesicular Monoamine Transporter. <i>Advances in Pharmacology</i> , 1997, 42, 223-227.	1.2	7
123	Expression of neurotransmitter transporters for structural and biochemical studies. <i>Protein Expression and Purification</i> , 2010, 73, 152-160.	0.6	7
124	The Amine Transporter from Bovine Chromaffin Granules. <i>Annals of the New York Academy of Sciences</i> , 1985, 456, 268-276.	1.8	6
125	A liposomal method for evaluation of inhibitors of H ⁺ -coupled multidrug transporters. <i>Journal of Pharmacological and Toxicological Methods</i> , 2016, 77, 53-57.	0.3	6
126	ACTIVE TRANSPORT IN ISOLATED BACTERIAL MEMBRANE VESICLES: BINDING OF ¹²⁵ I-GALACTOSIDES TO THE LACCARRIER PROTEIN. <i>Annals of the New York Academy of Sciences</i> , 1975, 264, 350-357.	1.8	4

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127	What Can a Living Fossil Tell Us About Evolution and Mechanism of Ion-Coupled Transporters: The Story of Small Multidrug Transporters. Springer Series in Biophysics, 2014, , 233-248.	0.4	4
128	[4] Purification of vesicular monoamine transporters: From classical techniques to histidine tags. Methods in Enzymology, 1998, 296, 64-72.	0.4	3
129	Active Transport of Biogenic Amines in Chromaffin Granule Membrane Vesicles1. Frontiers of Neurology and Neuroscience, 1980, 7, 117-128.	3.0	2
130	Vesicular Neurotransmitter Transporters. , 1997, , 215-240.		2
131	Carboxyl Residues Required for Transport by a Vesicular Monoamine Transporter Homolog from Brevibacillus Brevis (BbMAT). Biophysical Journal, 2015, 108, 462a.	0.2	0