

Rena M Ryan

List of Publications by Year in descending order

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61
papers

2,615
citations

201674

27
h-index

197818

49
g-index

69
all docs

69
docs citations

69
times ranked

2449
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling substrate and ion binding to extracellular gate of a sodium-dependent aspartate transporter. <i>Nature</i> , 2007, 445, 387-393.	27.8	473
2	Mechanisms of Glutamate Transport. <i>Physiological Reviews</i> , 2013, 93, 1621-1657.	28.8	274
3	Targeting glutamine transport to suppress melanoma cell growth. <i>International Journal of Cancer</i> , 2014, 135, 1060-1071.	5.1	179
4	Loss-of-function mutations in the glutamate transporter SLC1A1 cause human dicarboxylic aminoaciduria. <i>Journal of Clinical Investigation</i> , 2011, 121, 446-453.	8.2	117
5	The uncoupled chloride conductance of a bacterial glutamate transporter homolog. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 365-371.	8.2	114
6	The Chloride Permeation Pathway of a Glutamate Transporter and Its Proximity to the Glutamate Translocation Pathway. <i>Journal of Biological Chemistry</i> , 2004, 279, 20742-20751.	3.4	109
7	Functional Characterization of a Na ⁺ -dependent Aspartate Transporter from <i>Pyrococcus horikoshii</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 17540-17548.	3.4	102
8	Glycine transport inhibitors for the treatment of pain. <i>Trends in Pharmacological Sciences</i> , 2014, 35, 423-430.	8.7	69
9	Distinct Conformational States Mediate the Transport and Anion Channel Properties of the Glutamate Transporter EAAT-1. <i>Journal of Biological Chemistry</i> , 2002, 277, 13494-13500.	3.4	67
10	Structural characterisation reveals insights into substrate recognition by the glutamine transporter ASCT2/SLC1A5. <i>Nature Communications</i> , 2018, 9, 38.	12.8	65
11	Position of the Third Na ⁺ Site in the Aspartate Transporter GltPh and the Human Glutamate Transporter, EAAT1. <i>PLoS ONE</i> , 2012, 7, e33058.	2.5	65
12	Benzylserine inhibits breast cancer cell growth by disrupting intracellular amino acid homeostasis and triggering amino acid response pathways. <i>BMC Cancer</i> , 2018, 18, 689.	2.6	43
13	Structural Optimization and Pharmacological Evaluation of Inhibitors Targeting Dual-Specificity Tyrosine Phosphorylation-Regulated Kinases (DYRK) and CDC-like kinases (CLK) in Glioblastoma. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2052-2070.	6.4	41
14	Amino Acid Transporters and Exchangers from the SLC1A Family: Structure, Mechanism and Roles in Physiology and Cancer. <i>Neurochemical Research</i> , 2020, 45, 1268-1286.	3.3	40
15	Glutamate transporters have a chloride channel with two hydrophobic gates. <i>Nature</i> , 2021, 591, 327-331.	27.8	40
16	Effects of sumatriptan on rat medullary dorsal horn neurons. <i>Pain</i> , 2004, 111, 30-37.	4.2	39
17	The Domain Interface of the Human Glutamate Transporter EAAT1 Mediates Chloride Permeation. <i>Biophysical Journal</i> , 2014, 107, 621-629.	0.5	37
18	The position of an arginine residue influences substrate affinity and K ⁺ coupling in the human glutamate transporter, EAAT1. <i>Journal of Neurochemistry</i> , 2010, 114, 565-575.	3.9	36

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19	Molecular Determinants for Functional Differences between Alanine-Serine-Cysteine Transporter 1 and Other Glutamate Transporter Family Members. <i>Journal of Biological Chemistry</i> , 2013, 288, 8250-8257.	3.4	36
20	Prostaglandin E2 inhibits calcium current in two subpopulations of acutely isolated mouse trigeminal sensory neurons. <i>Journal of Physiology</i> , 2002, 539, 433-444.	2.9	35
21	Monoterpene Glycoside ESK246 from <i>Pittosporum</i> Targets LAT3 Amino Acid Transport and Prostate Cancer Cell Growth. <i>ACS Chemical Biology</i> , 2014, 9, 1369-1376.	3.4	35
22	Slips, leaks and channels in glutamate transporters. <i>Channels</i> , 2008, 2, 51-58.	2.8	32
23	Transport Rates of a Glutamate Transporter Homologue Are Influenced by the Lipid Bilayer. <i>Journal of Biological Chemistry</i> , 2015, 290, 9780-9788.	3.4	32
24	Allosteric modulation of neurotransmitter transporters at excitatory synapses. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 23, 1-11.	4.0	31
25	Oleoyl carnitine inhibits glycine transport by GlyT2. <i>British Journal of Pharmacology</i> , 2013, 168, 891-902.	5.4	30
26	Elevating the alternating-access model. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 187-189.	8.2	30
27	Molecular Determinants for Substrate Interactions with the Glycine Transporter GlyT2. <i>ACS Chemical Neuroscience</i> , 2018, 9, 603-614.	3.5	30
28	Synthesis and Characterization of Novel Acyl-Glycine Inhibitors of GlyT2. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1949-1959.	3.5	29
29	Development of an N-Acyl Amino Acid That Selectively Inhibits the Glycine Transporter 2 To Produce Analgesia in a Rat Model of Chronic Pain. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2466-2484.	6.4	28
30	Identification of a 3rd Na ⁺ Binding Site of the Glycine Transporter, GlyT2. <i>PLoS ONE</i> , 2016, 11, e0157583.	2.5	28
31	Extracellular Loops 2 and 4 of GLYT2 Are Required for N-Arachidonylglycine Inhibition of Glycine Transport. <i>Journal of Biological Chemistry</i> , 2009, 284, 36424-36430.	3.4	27
32	Identification of an allosteric binding site on the human glycine transporter, GlyT2, for bioactive lipid analgesics. <i>eLife</i> , 2019, 8, .	6.0	26
33	Regulation of Glutamate, GABA and Dopamine Transporter Uptake, Surface Mobility and Expression. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 670346.	3.7	25
34	A channel in a transporter. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2005, 32, 1-6.	1.9	23
35	Water and urea permeation pathways of the human excitatory amino acid transporter EAAT1. <i>Biochemical Journal</i> , 2011, 439, 333-340.	3.7	21
36	Na ⁺ Interactions with the Neutral Amino Acid Transporter ASCT1. <i>Journal of Biological Chemistry</i> , 2014, 289, 17468-17479.	3.4	21

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37	Glycine transporter2 inhibitors: Getting the balance right. <i>Neurochemistry International</i> , 2016, 98, 89-93.	3.8	20
38	The Split Personality of Glutamate Transporters: A Chloride Channel and a Transporter. <i>Neurochemical Research</i> , 2016, 41, 593-599.	3.3	19
39	The Role of Cation Binding in Determining Substrate Selectivity of Glutamate Transporters. <i>Journal of Biological Chemistry</i> , 2009, 284, 4510-4515.	3.4	18
40	The amino acid transporter, <scp>SLC</scp>1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. <i>FEBS Letters</i> , 2017, 591, 322-330.	2.8	16
41	Lipid inhibitors of high affinity glycine transporters: Identification of a novel class of analgesics. <i>Neurochemistry International</i> , 2014, 73, 211-216.	3.8	15
42	Tuning the ion selectivity of glutamate transporter-associated uncoupled conductances. <i>Journal of General Physiology</i> , 2016, 148, 13-24.	1.9	15
43	Characterization of the Inward- and Outward-Facing Substrate Binding Sites of the Prokaryotic Aspartate Transporter, Glt_{Ph}. <i>Biochemistry</i> , 2016, 55, 6801-6810.	2.5	14
44	Design, Synthesis, and Biological Evaluation of Tetra-substituted Thiophenes as Inhibitors of p38 MAPK. <i>ChemistryOpen</i> , 2015, 4, 56-64.	1.9	12
45	Ataxia-linked SLC1A3 mutations alter EAAT1 chloride channel activity and glial regulation of CNS function. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	10
46	How and Why Are Channels in Transporters?. <i>Science Signaling</i> , 2005, 2005, pe17-pe17.	3.6	6
47	Flexible Analogues of Azaindole DYRK1A Inhibitors Elicit Cytotoxicity in Glioblastoma Cells. <i>Australian Journal of Chemistry</i> , 2018, 71, 789.	0.9	6
48	Microscopic Characterization of the Chloride Permeation Pathway in the Human Excitatory Amino Acid Transporter 1 (EAAT1). <i>ACS Chemical Neuroscience</i> , 2022, 13, 776-785.	3.5	6
49	Synthesis and in vitro evaluation of diverse heterocyclic diphenolic compounds as inhibitors of DYRK1A. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5852-5869.	3.0	5
50	Characterizing unexpected interactions of a glutamine transporter inhibitor with members of the SLC1A transporter family. <i>Journal of Biological Chemistry</i> , 2022, 298, 102178.	3.4	5
51	Site-Directed Mutagenesis in the Study of Membrane Transporters. <i>Methods in Molecular Biology</i> , 2010, 637, 277-293.	0.9	4
52	Acetyl-CoA-Mediated Post-Biosynthetic Modification of Desferrioxamine B Generates N- and N-O-Acetylated Isomers Controlled by a pH Switch. <i>ACS Chemical Biology</i> , 2022, 17, 426-437.	3.4	4
53	Site-Directed Mutagenesis in the Study of Membrane Transporters. , 2003, 227, 97-108.		1
54	Regulation of SLC1A4 and SLC1A5 in Prostate Cancer Letter. <i>Molecular Cancer Research</i> , 2018, 16, 1809-1810.	3.4	1

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55	Allosteric Modulation of Glutamate Transporters. , 2004, , 161-174.		1
56	Brain transporters: From genes and genetic disorders to function and drug discovery. Neurochemistry International, 2016, 98, 1-3.	3.8	0
57	The Split Personality of Glutamate Transporters: a Channel and a Transporter. Biophysical Journal, 2018, 114, 332a.	0.5	0
58	A Novel Chloride Conducting Conformation in Human Glutamate Transporters. Biophysical Journal, 2021, 120, 171a.	0.5	0
59	Glutamate Transporters (EAATS) Contain a Conserved Chloride Channel with Two Hydrophobic Gates. Biophysical Journal, 2021, 120, 104a-105a.	0.5	0
60	Molecular Basis for Substrate and Inhibitor Interactions with the Glycine Transporter, GlyT2. FASEB Journal, 2015, 29, 566.6.	0.5	0
61	The twisting elevator mechanism of glutamate transporters reveals the structural basis for the dual transport-channel functions. Current Opinion in Structural Biology, 2022, 75, 102405.	5.7	0