

Conrad E Johanson

List of Publications by Year in descending order

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115
papers

6,918
citations

44042

48
h-index

62565

80
g-index

118
all docs

118
docs citations

118
times ranked

7337
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiplicity of cerebrospinal fluid functions: New challenges in health and disease. <i>Cerebrospinal Fluid Research</i> , 2008, 5, 10.	0.5	650
2	RAGE, LRP-1, and amyloid-beta protein in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2006, 112, 405-415.	3.9	427
3	Chemotherapy Delivery Issues in Central Nervous System Malignancy: A Reality Check. <i>Journal of Clinical Oncology</i> , 2007, 25, 2295-2305.	0.8	369
4	A balanced view of the cerebrospinal fluid composition and functions: Focus on adult humans. <i>Experimental Neurology</i> , 2015, 273, 57-68.	2.0	304
5	The Mammalian Choroid Plexus. <i>Scientific American</i> , 1989, 261, 68-74.	1.0	204
6	The Blood-Cerebrospinal Fluid Barrier: Structure and Functional Significance. <i>Methods in Molecular Biology</i> , 2011, 686, 101-131.	0.4	171
7	A balanced view of choroid plexus structure and function: Focus on adult humans. <i>Experimental Neurology</i> , 2015, 267, 78-86.	2.0	167
8	Hippocampal RAGE immunoreactivity in early and advanced Alzheimer's disease. <i>Brain Research</i> , 2008, 1230, 273-280.	1.1	164
9	Amyloid Efflux Transporter Expression at the Blood-Brain Barrier Declines in Normal Aging. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 1034-1043.	0.9	157
10	Peptide and peptide analog transport systems at the blood-CSF barrier. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 1765-1791.	6.6	145
11	Permeability and vascularity of the developing brain: Cerebellum vs cerebral cortex. <i>Brain Research</i> , 1980, 190, 3-16.	1.1	144
12	REVIEW: Vitamin transport and homeostasis in mammalian brain: focus on Vitamins B and E. <i>Journal of Neurochemistry</i> , 2007, 103, 425-438.	2.1	144
13	Enhanced Prospects for Drug Delivery and Brain Targeting by the Choroid Plexus-CSF Route. <i>Pharmaceutical Research</i> , 2005, 22, 1011-1037.	1.7	122
14	Alzheimer's Therapeutics Targeting Amyloid Beta 1-42 Oligomers I: Abeta 42 Oligomer Binding to Specific Neuronal Receptors Is Displaced by Drug Candidates That Improve Cognitive Deficits. <i>PLoS ONE</i> , 2014, 9, e111898.	1.1	120
15	Amyloid-beta transporter expression at the blood-CSF barrier is age-dependent. <i>Fluids and Barriers of the CNS</i> , 2011, 8, 21.	2.4	104
16	Human Choroid Plexus Growth Factors: What Are the Implications for CSF Dynamics in Alzheimer's Disease?. <i>Experimental Neurology</i> , 2001, 167, 40-47.	2.0	100
17	Traumatic brain injury and recovery mechanisms: peptide modulation of periventricular neurogenic regions by the choroid plexus-CSF nexus. <i>Journal of Neural Transmission</i> , 2011, 118, 115-133.	1.4	100
18	Cystatin C, a protease inhibitor, in degenerating rat hippocampal neurons following transient forebrain ischemia. <i>Brain Research</i> , 1995, 691, 1-8.	1.1	94

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19	Amyloid Deposition and Influx Transporter Expression at the Blood-Brain Barrier Increase in Normal Aging. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 98-108.	0.9	94
20	Choroid plexus dysfunction impairs beta-amyloid clearance in a triple transgenic mouse model of Alzheimer's disease. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 17.	1.8	91
21	Comparative transcriptomics of choroid plexus in Alzheimer's disease, frontotemporal dementia and Huntington's disease: implications for CSF homeostasis. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 18.	2.4	86
22	Brain Ventricular Volume and Cerebrospinal Fluid Biomarkers of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 647-657.	1.2	83
23	The Distributional Nexus of Choroid Plexus to Cerebrospinal Fluid, Ependyma and Brain. <i>Toxicologic Pathology</i> , 2011, 39, 186-212.	0.9	83
24	Counteracting the effects of TNF receptor 1 has therapeutic potential in Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	81
25	Choroid plexus recovery after transient forebrain ischemia: role of growth factors and other repair mechanisms. <i>Cellular and Molecular Neurobiology</i> , 2000, 20, 197-216.	1.7	79
26	Cerebrolysin reduces blood-cerebrospinal fluid barrier permeability change, brain pathology, and functional deficits following traumatic brain injury in the rat. <i>Annals of the New York Academy of Sciences</i> , 2010, 1199, 125-137.	1.8	79
27	Temporal course of cerebrospinal fluid dynamics and amyloid accumulation in the aging rat brain from three to thirty months. <i>Fluids and Barriers of the CNS</i> , 2012, 9, 3.	2.4	79
28	A cell junction pathology of neural stem cells leads to abnormal neurogenesis and hydrocephalus. <i>Biological Research</i> , 2012, 45, 231-241.	1.5	78
29	N-Acetylcysteine Enhances Hippocampal Neuronal Survival After Transient Forebrain Ischemia in Rats. <i>Stroke</i> , 1995, 26, 305-311.	1.0	77
30	AVP V ₁ receptor-mediated decrease in Cl ⁻ efflux and increase in dark cell number in choroid plexus epithelium. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C82-C90.	2.1	75
31	Homeostatic capabilities of the choroid plexus epithelium in Alzheimer's disease. <i>Cerebrospinal Fluid Research</i> , 2004, 1, 3.	0.5	74
32	Apolipoprotein E, Amyloid- β , and Blood-Brain Barrier Permeability in Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008, 67, 261-270.	0.9	73
33	Cell Junction Pathology of Neural Stem Cells Is Associated With Ventricular Zone Disruption, Hydrocephalus, and Abnormal Neurogenesis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015, 74, 653-671.	0.9	72
34	Acidosis, Acetazolamide, and Amiloride: Effects on ²² Na Transfer Across the Blood-Brain and Blood-CSF Barriers. <i>Journal of Neurochemistry</i> , 1989, 52, 1058-1063.	2.1	68
35	Micronutrient and Urate Transport in Choroid Plexus and Kidney: Implications for Drug Therapy. <i>Pharmaceutical Research</i> , 2006, 23, 2515-2524.	1.7	67
36	Active transport of sodium and potassium by the choroid plexus of the rat. <i>Journal of Physiology</i> , 1974, 241, 359-372.	1.3	65

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37	Potassium Cotransport with Sodium and Chloride in the Choroid Plexus. <i>Journal of Neurochemistry</i> , 1991, 56, 1623-1629.	2.1	61
38	Blood-Cerebrospinal Fluid Barrier Gradients in Mild Cognitive Impairment and Alzheimer's Disease: Relationship to Inflammatory Cytokines and Chemokines. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 245.	1.7	60
39	Kinetic analysis of [³⁶ Cl]-, [²² Na]- and [³ H]mannitol uptake into the in vivo choroid plexus-cerebrospinal fluid brain system: Ontogeny of the blood-brain and blood-CSF barriers. <i>Developmental Brain Research</i> , 1982, 3, 181-198.	2.1	59
40	Ecr4 expression and its product augurin in the choroid plexus: impact on fetal brain development, cerebrospinal fluid homeostasis and neuroprogenitor cell response to CNS injury. <i>Fluids and Barriers of the CNS</i> , 2011, 8, 6.	2.4	59
41	Choroid plexus genes for CSF production and brain homeostasis are altered in Alzheimer's disease. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 34.	2.4	58
42	Cerebral Cortical Arteriolar Angiopathy, Vascular Beta-Amyloid, Smooth Muscle Actin, Braak Stage, and APOE Genotype. <i>Stroke</i> , 2008, 39, 814-821.	1.0	56
43	Uptake of ³⁶ Cl and ²² Na by the Brain-Cerebrospinal Fluid System: Comparison of the Permeability of the Blood-Brain and Blood-Cerebrospinal Fluid Barriers. <i>Journal of Neurochemistry</i> , 1981, 37, 117-124.	2.1	55
44	Treatment Modalities for Leptomeningeal Metastases. <i>Seminars in Oncology</i> , 2009, 36, S46-S54.	0.8	54
45	Adrenergic-Induced Enhancement of Brain Barrier System Permeability to Small Nonelectrolytes: Choroid Plexus versus Cerebral Capillaries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1985, 5, 401-412.	2.4	53
46	The presence of arginine vasopressin and its mRNA in rat choroid plexus epithelium. <i>Molecular Brain Research</i> , 1997, 48, 67-72.	2.5	50
47	Alteration of sodium transport by the choroid plexus with amiloride. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 979, 187-192.	1.4	49
48	Stress protein expression in the Alzheimer-diseased choroid plexus. <i>Journal of Alzheimer's Disease</i> , 2003, 5, 171-177.	1.2	48
49	Intracerebroventricularly Administered Neurotrophins Attenuate Blood-Cerebrospinal Fluid Barrier Breakdown and Brain Pathology following Whole-Body Hyperthermia. <i>Annals of the New York Academy of Sciences</i> , 2007, 1122, 112-129.	1.8	47
50	Changes in Brain β -Amyloid Deposition and Aquaporin 4 Levels in Response to Altered Agrin Expression in Mice. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2011, 70, 1124-1137.	0.9	47
51	Developmental studies of the compartmentalization of water and electrolytes in the choroid plexus of the neonatal rat brain. <i>Brain Research</i> , 1976, 116, 35-48.	1.1	42
52	Esophageal Cancer Related Gene-4 Is a Choroid Plexus-Derived Injury Response Gene: Evidence for a Biphasic Response in Early and Late Brain Injury. <i>PLoS ONE</i> , 2011, 6, e24609.	1.1	42
53	Vasopressin mediates the inhibitory effect of central angiotensin II on cerebrospinal fluid formation. <i>European Journal of Pharmacology</i> , 1998, 347, 205-209.	1.7	41
54	The temporal profile and morphologic features of neuronal death in human stroke resemble those observed in experimental forebrain ischemia: The potential role of apoptosis. <i>Neurological Research</i> , 1998, 20, 283-296.	0.6	41

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55	Uptake of ³⁶ Cl and ²² Na by the Choroid Plexus-Cerebrospinal Fluid System: Evidence for Active Chloride Transport by the Choroidal Epithelium. <i>Journal of Neurochemistry</i> , 1981, 37, 107-116.	2.1	39
56	Amyloid and Tau accumulate in the brains of aged hydrocephalic rats. <i>Brain Research</i> , 2010, 1317, 286-296.	1.1	37
57	Uptake of [¹⁴ C]urea by the <i>in vivo</i> choroid plexus-cerebrospinal fluid-brain system: identification of sites of molecular sieving. <i>Journal of Physiology</i> , 1978, 275, 167-176.	1.3	36
58	Vectorial Ligand Transport Through Mammalian Choroid Plexus. <i>Pharmaceutical Research</i> , 2010, 27, 2054-2062.	1.7	35
59	Changes in CSF Flow and Extracellular Space in the Developing Rat. <i>Advances in Behavioral Biology</i> , 1974, , 281-287.	0.2	33
60	Amyloid-beta accumulation, neurogenesis, behavior, and the age of rats.. <i>Behavioral Neuroscience</i> , 2014, 128, 523-536.	0.6	29
61	The nexus of vitamin homeostasis and DNA synthesis and modification in mammalian brain. <i>Molecular Brain</i> , 2014, 7, 3.	1.3	29
62	Targeting choroid plexus epithelia and ventricular ependyma for drug delivery to the central nervous system. <i>BMC Neuroscience</i> , 2011, 12, 4.	0.8	28
63	Potential for Pharmacologic Manipulation of the Blood-Cerebrospinal Fluid Barrier. , 1989, , 223-260.		28
64	Vasopressin Gene Expression in Rat Choroid Plexus. <i>Advances in Experimental Medicine and Biology</i> , 1998, 449, 59-65.	0.8	27
65	Ethacrynic acid and furosemide alter Cl, K, and Na distribution between blood, choroid plexus, CSF, and brain. <i>Neurochemical Research</i> , 1992, 17, 1079-1085.	1.6	26
66	FGF-2 immunoreactivity in adult rat ependyma and choroid plexus: Responses to global forebrain ischemia and intraventricular FGF-2. <i>Neurological Research</i> , 2001, 23, 353-358.	0.6	26
67	Choroid plexus failure in the Kearns-Sayre syndrome. <i>Cerebrospinal Fluid Research</i> , 2010, 7, 14.	0.5	26
68	Sustained choroid plexus function in human elderly and Alzheimer's disease patients. <i>Fluids and Barriers of the CNS</i> , 2013, 10, 28.	2.4	26
69	The Choroid Plexus-Arachnoid Membrane-Cerebrospinal Fluid System. , 1988, , 33-104.		25
70	Immunohistochemical localization of nitric oxide synthase in rat anterior choroidal artery, stromal blood microvessels, and choroid plexus epithelial cells. <i>Cell and Tissue Research</i> , 1996, 285, 411-418.	1.5	25
71	Cisterna magna microdialysis of ²² Na to evaluate ion transport and cerebrospinal fluid dynamics. <i>Journal of Neurosurgery</i> , 1991, 74, 965-971.	0.9	24
72	Microdialysis analysis of effects of loop diuretics and acetazolamide on chloride transport from blood to CSF. <i>Brain Research</i> , 1994, 641, 121-126.	1.1	24

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73	A comparative analysis of extracellular fluid volume of several tissues as determined by six different markers. <i>Life Sciences</i> , 1981, 29, 449-456.	2.0	23
74	Ontogeny and Phylogeny of the Blood-Brain Barrier. , 1989, , 157-198.		23
75	Distribution of fibroblast growth factor receptors and their co-localization with vasopressin in the choroid plexus epithelium. <i>NeuroReport</i> , 2002, 13, 257-259.	0.6	21
76	The Origin of Deoxynucleosides in Brain: Implications for the Study of Neurogenesis and Stem Cell Therapy. <i>Pharmaceutical Research</i> , 2007, 24, 859-867.	1.7	21
77	Choroid Plexusâ€Cerebrospinal Fluid Circulatory Dynamics: Impact on Brain Growth, Metabolism, and Repair. , 2008, , 173-200.		21
78	Acidosis-Induced Enhanced Activity of the Na-K Exchange Pump in the In Vivo Choroid Plexus: An Ontogenetic Analysis of Possible Role in Cerebrospinal Fluid pH Homeostasis. <i>Journal of Neurochemistry</i> , 1982, 38, 322-332.	2.1	20
79	Chloride efflux from isolated choroid plexus. <i>Brain Research</i> , 1991, 562, 306-310.	1.1	18
80	AT1 receptor subtype mediates the inhibitory effect of central angiotensin II on cerebrospinal fluid formation in the rat. <i>Regulatory Peptides</i> , 1994, 53, 123-129.	1.9	17
81	Low levels of amyloid-beta and its transporters in neonatal rats with and without hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2009, 6, 4.	0.5	17
82	Vulnerability of fourth ventricle choroid plexus in sudden unexplained fetal and infant death syndromes related to smoking mothers. <i>International Journal of Developmental Neuroscience</i> , 2013, 31, 319-327.	0.7	17
83	Third ventricle choroid plexus function and its response to acute perturbations in plasma chemistry. <i>Brain Research</i> , 1986, 374, 137-146.	1.1	16
84	Response of infant and adult rat choroid plexus potassium transporters to increased extracellular potassium. <i>Developmental Brain Research</i> , 1991, 60, 229-233.	2.1	16
85	Merging Transport Data for Choroid Plexus with Blood-Brain Barrier to Model CNS Homeostasis and Disease More Effectively. <i>CNS and Neurological Disorders - Drug Targets</i> , 2016, 15, 1151-1180.	0.8	16
86	Hydrocephalus disorders: their biophysical and neuroendocrine impact on the choroid plexus epithelium. <i>Advances in Molecular and Cell Biology</i> , 2003, 31, 269-293.	0.1	11
87	Epidermal growth factor targeting of bacteriophage to the choroid plexus for gene delivery to the central nervous system via cerebrospinal fluid. <i>Brain Research</i> , 2010, 1359, 1-13.	1.1	11
88	Neurospheres from neural stem/neural progenitor cells (NSPCs) of non-hydrocephalic HTx rats produce neurons, astrocytes and multiciliated ependyma: the cerebrospinal fluid of normal and hydrocephalic rats supports such a differentiation. <i>Cell and Tissue Research</i> , 2018, 373, 421-438.	1.5	10
89	Neural stem cell therapy of foetal onset hydrocephalus using the HTx rat as experimental model. <i>Cell and Tissue Research</i> , 2020, 381, 141-161.	1.5	10
90	Regulation of pH and HCO ₃ in brain and CSF of the developing mammalian central nervous system. <i>Developmental Brain Research</i> , 1988, 38, 255-264.	2.1	9

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91	Targeting the Choroid Plexus-CSF-Brain Nexus Using Peptides Identified by Phage Display. <i>Methods in Molecular Biology</i> , 2011, 686, 483-498.	0.4	9
92	The Choroid Plexus-CSF Nexus: Gateway to the Brain. , 0, , 165-196.		9
93	Arachnoid membrane, subarachnoid CSF and piaâ€“glia. , 1998, , 259-269.		8
94	Title is missing!. <i>Cerebrospinal Fluid Research</i> , 2005, 2, S6.	0.5	6
95	Co-localization and regulation of basic fibroblast growth factor and arginine vasopressin in neuroendocrine cells of the rat and human brain. <i>Cerebrospinal Fluid Research</i> , 2010, 7, 13.	0.5	6
96	The Choroid Plexusâ€“CSF Nexus. , 2003, , 165-195.		5
97	The Orphan C2orf40 Gene is a Neuroimmune Factor in Alzheimer's Disease. <i>JSM Alzheimer's Disease and Related Dementia</i> , 2016, 3, .	0.0	5
98	A developmental analysis of differences in the uptake of [123I]isopropylidoamphetamine versus ^{99m} Tc-pertechnetate by the choroid plexus and brain. <i>Neurochemical Research</i> , 1994, 19, 379-384.	1.6	4
99	Volume Transmission-Mediated Protective Impact of Choroid Plexus-Cerebrospinal Fluid Growth Factors on Forebrain Ischemic Injury. , 2004, , 361-384.		3
100	Editorial: New Approaches to the Pathogenesis of Sudden Intrauterine Unexplained Death and Sudden Infant Death Syndrome. <i>Frontiers in Neurology</i> , 2017, 8, 441.	1.1	3
101	Organ Culture and Grafting of Choroid Plexus into the Ventricular CSF of Normal and Hydrocephalic HTx Rats. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 626-640.	0.9	3
102	Production and Flow of Cerebrospinal Fluid. , 2011, , 487-493.		3
103	Blending Established and New Perspectives on Choroid Plexus-CSF Dynamics. <i>Physiology in Health and Disease</i> , 2020, , 35-81.	0.2	2
104	Fibroblast Growth Factor and the Bloodâ€“Brain Barrier. , 2006, , 1449-1454.		2
105	Fluid-Forming Function of the Choroid Plexus: What is the Role of Aquaporin-1?. , 2015, , 140-171.		2
106	Choroid Plexus: Source of Cerebrospinal Fluid and Regulator of Brain Development and Function. , 2019, , 239-266.		2
107	Enhanced expression of the LRP-1 transporter at the blood-CSF interface in chronic hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2007, 4, .	0.5	1
108	Report on a conference analyzing the role of cerebrospinal fluid prophylaxis for brain tumors. <i>Cerebrospinal Fluid Research</i> , 2008, 5, 6.	0.5	1

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109	Effects of FGF β 2 Overexpression in the Dutch/Iowa APP Transgenic Mouse. FASEB Journal, 2008, 22, 707.4.	0.2	1
110	Does NPH equal ischemia?. Cerebrospinal Fluid Research, 2007, 4, .	0.5	0
111	Report on BrainChild hydrocephalus conference. Cerebrospinal Fluid Research, 2007, 4, 4.	0.5	0
112	Augurin and Ecrq4-derived Neuropeptides. , 2013, , 1655-1666.		0
113	Choroid Plexus: Source of Cerebrospinal Fluid and Regulator of Brain Development and Function. , 2018, , 1-36.		0
114	Choroid Plexus and CSF in Alzheimer's Disease. , 2005, , 311-344.		0
115	Altering Agrin Expression Influences A β 2 Deposition in APP(Swe)/PS1(ex9) Transgenic Mice. FASEB Journal, 2008, 22, 707.5.	0.2	0