William A Banks

List of Publications by Year
in descending order

552 papers	44,022 citations	1612 105 h-index	3576 181 g-index
569 all docs	569 docs citations	569 times ranked	39063 citing authors

#	Article	IF	Citations
1	Transport of brain-derived neurotrophic factor across the bloodâ€“brain barrier. Neuropharmacology, 1998, 37, 1553-1561.	2.0	1,150
2	Leptin enters the brain by a saturable system independent of insulin. Peptides, 1996, 17, 305-311.	1.2	1,131
3	From bloodâ€“brain barrier to bloodâ€“brain interface: new opportunities for CNS drug delivery. Nature Reviews Drug Discovery, 2016, 15, 275-292.	21.5	778
4	Ghrelin controls hippocampal spine synapse density and memory performance. Nature Neuroscience, 2006, 9, 381-388.	7.1	738
5	Glucagon-like peptide-1 receptor is involved in learning and neuroprotection. Nature Medicine, 2003, 9, 1173-1179.	15.2	722
6	Passage of Cytokines across the Blood-Brain Barrier. NeuroImmunoModulation, 1995, 2, 241-248.	0.9	661
7	Extent and Direction of Ghrelin Transport Across the Blood-Brain Barrier Is Determined by Its Unique Primary Structure. Journal of Pharmacology and Experimental Therapeutics, 2002, 302, 822-827.	1.3	592
8	Murine tumor necrosis factor alpha is transported from blood to brain in the mouse. Journal of Neuroimmunology, 1993, 47, 169-176.	1.1	525
9	Characteristics of compounds that cross the blood-brain barrier. BMC Neurology, 2009, 9, S3.	0.8	520
10	Plasma exosomal Î±-synuclein is likely CNS-derived and increased in Parkinsonâ€™s disease. Acta Neuropathologica, 2014, 128, 639-650.	3.9	504
11	Brain-immune communication pathways. Brain, Behavior, and Immunity, 2007, 21, 727-735.	2.0	487
12	Blood-Brain Barrier Transport of Cytokines: A Mechanism for Neuropathology. Current Pharmaceutical Design, 2005, 11, 973-984.	0.9	460
13	Bloodâ€“Brain Barrier Dysfunction as a Cause and Consequence of Alzheimer's Disease. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1500-1513.	2.4	443
14	Insulin in the brain: There and back again. , 2012, 136, 82-93.		442
15	Triglycerides Induce Leptin Resistance at the Blood-Brain Barrier. Diabetes, 2004, 53, 1253-1260.	0.3	432
16	Strategies to advance translational research into brain barriers. Lancet Neurology, The, 2008, 7, 84-96.	4.9	432
17	The bloodâ€“brain barrier and immune function and dysfunction. Neurobiology of Disease, 2010, 37, 26-32.	2.1	416
18	The antioxidants Î±-lipoic acid and N-acetylcysteine reverse memory impairment and brain oxidative stress in aged SAMP8 mice. Journal of Neurochemistry, 2003, 84, 1173-1183.	2.1	415

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19	The source of cerebral insulin. European Journal of Pharmacology, 2004, 490, 5-12.	1.7	413
20	Macrophage exosomes as natural nanocarriers for protein delivery to inflamed brain. Biomaterials, 2017, 142, 1-12.	5.7	411
21	Penetration of interleukin-6 across the murine blood-brain barrier. Neuroscience Letters, 1994, 179, 53-56.	1.0	409
22	Lipopolysaccharide-induced blood-brain barrier disruption: roles of cyclooxygenase, oxidative stress, neuroinflammation, and elements of the neurovascular unit. Journal of Neuroinflammation, 2015, 12, 223.	3.1	405
23	Animal-Assisted Therapy and Loneliness in Nursing Homes: Use of Robotic versus Living Dogs. Journal of the American Medical Directors Association, 2008, 9, 173-177.	1.2	398
24	Clinical depression and inflammatory risk markers for coronary heart disease. American Journal of Cardiology, 2002, 90, 1279-1283.	0.7	391
25	Bidirectional transport of interleukin-1 alpha across the blood-brain barrier. Brain Research Bulletin, 1989, 23, 433-437.	1.4	345
26	Obesity and Hypertriglyceridemia Produce Cognitive Impairment. Endocrinology, 2008, 149, 2628-2636.	1.4	332
27	Impaired transport of leptin across the blood-brain barrier in obesityâ˜†. Peptides, 1999, 20, 1341-1345.	1.2	304
28	Role of the immune system in HIV-associated neuroinflammation and neurocognitive implications. Brain, Behavior, and Immunity, 2015, 45, 1-12.	2.0	297
29	The S1 protein of SARS-CoV-2 crosses the bloodâ€"brain barrier in mice. Nature Neuroscience, 2021, 24, 368-378.	7.1	295
30	Peptides and the blood-brain barrier: Lipophilicity as a predictor of permeability. Brain Research Bulletin, 1985, 15, 287-292.	1.4	283
31	Differential Permeability of the Bloodâ€"Brain Barrier to Two Pancreatic Peptides: Insulin and Amylin. Peptides, 1998, 19, 883-889.	1.2	283
32	Transport of Insulin Across the Blood-Brain Barrier: Saturability at Euglycemic Doses of Insulin. Peptides, 1997, 18, 1423-1429.	1.2	281
33	Minimal penetration of lipopolysaccharide across the murine bloodâ€"brain barrier. Brain, Behavior, and Immunity, 2010, 24, 102-109.	2.0	277
34	Effects of leptin on memory processing. Peptides, 2006, 27, 1420-1425.	1.2	276
35	Neuroimmune Axes of the Bloodâ€"Brain Barriers and Bloodâ€"Brain Interfaces: Bases for Physiological Regulation, Disease States, and Pharmacological Interventions. Pharmacological Reviews, 2018, 70, 278-314.	7.1	242
36	The Effects of Animal-Assisted Therapy on Loneliness in an Elderly Population in Long-Term Care Facilities. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2002, 57, M428-M432.	1.7	237

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37	Transport of Extracellular Vesicles across the Blood-Brain Barrier: Brain Pharmacokinetics and Effects of Inflammation. International Journal of Molecular Sciences, 2020, 21, 4407.	1.8	236
38	Release of cytokines by brain endothelial cells: A polarized response to lipopolysaccharide. Brain, Behavior, and Immunity, 2006, 20, 449-455.	2.0	232
39	Characterizaton of Short Isoforms of the Leptin Receptor in Rat Cerebral Microvessels and of Brain Uptake of Leptin in Mouse Models of Obesity. Endocrinology, 2002, 143, 775-783.	1.4	226
40	Obesity-prone rats have normal blood-brain barrier transport but defective central leptin signaling before obesity onset. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R143-R150.	0.9	226
41	Cytokine and chemokine responses in serum and brain after single and repeated injections of lipopolysaccharide: Multiplex quantification with path analysis. Brain, Behavior, and Immunity, 2011, 25, 1637-1648.	2.0	226
42	Pathways linking depression, adiposity, and inflammatory markers in healthy young adults. Brain, Behavior, and Immunity, 2003, 17, 276-285.	2.0	225
43	Reduction of amyloid load and cerebral damage in transgenic mouse model of Alzheimer's disease by treatment with a Î²â€sheet breaker peptide. FASEB Journal, 2002, 16, 860-862.	0.2	224
44	Prevention of ischemia-induced death of hippocampal neurons by pituitary adenylate cyclase activating polypeptide. Brain Research, 1996, 736, 280-286.	1.1	219
45	Lipopolysaccharide alters the bloodâ€"brain barrier transport of amyloid Î² protein: A mechanism for inflammation in the progression of Alzheimerâ€™s disease. Brain, Behavior, and Immunity, 2009, 23, 507-517.	2.0	218
46	Permeability of the bloodâ€"brain and bloodâ€"spinal cord barriers to interferons. Journal of Neuroimmunology, 1997, 76, 105-111.	1.1	211
47	Effect of LPS on the permeability of the bloodâ€"brain barrier to insulin. Brain Research, 2001, 896, 36-42.	1.1	205
48	Entry of Blood-Borne Cytokines into the Central Nervous System: Effects on Cognitive Processes. NeuroImmunoModulation, 2002, 10, 319-327.	0.9	201
49	The blood-brain barrier in neuroimmunology: Tales of separation and assimilation. Brain, Behavior, and Immunity, 2015, 44, 1-8.	2.0	201
50	Selective, Physiological Transport of Insulin Across the Blood-Brain Barrier: Novel Demonstration by Species-Specific Radioimmunoassays. Peptides, 1997, 18, 1257-1262.	1.2	195
51	Passage of amyloid Î² protein antibody across the bloodâ€"brain barrier in a mouse model of Alzheimerâ€™s disease. Peptides, 2002, 23, 2223-2226.	1.2	192
52	Site-directed antisense oligonucleotide decreases the expression of amyloid precursor protein and reverses deficits in learning and memory in aged SAMP8 mice. Peptides, 2000, 21, 1769-1775.	1.2	190
53	Impaired transport of leptin across the blood-brain barrier in obesity is acquired and reversible. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E10-E15.	1.8	188
54	Transmission of Î±-synuclein-containing erythrocyte-derived extracellular vesicles across the blood-brain barrier via adsorptive mediated transcytosis: another mechanism for initiation and progression of Parkinsonâ€™s disease?. Acta Neuropathologica Communications, 2017, 5, 71.	2.4	188

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55	Neuroinflammation: A Common Pathway in CNS Diseases as Mediated at the Blood-Brain Barrier. NeuroImmunoModulation, 2012, 19, 121-130.	0.9	187
56	Brain microvascular pericytes are immunoactive in culture: cytokine, chemokine, nitric oxide, and LRP-1 expression in response to lipopolysaccharide. Journal of Neuroinflammation, 2011, 8, 139.	3.1	178
57	Pharmacological Profiles of Peptide Drug Candidates for the Treatment of Alzheimer's Disease. Journal of Biological Chemistry, 2003, 278, 13905-13911.	1.6	177
58	The Transport Mechanism of Extracellular Vesicles at the Blood-Brain Barrier. Current Pharmaceutical Design, 2018, 23, 6206-6214.	0.9	177
59	Aluminum-Induced neurotoxicity: Alterations in membrane function at the blood-brain barrier. Neuroscience and Biobehavioral Reviews, 1989, 13, 47-53.	2.9	172
60	HIV-1 viral proteins gp120 and Tat induce oxidative stress in brain endothelial cells. Brain Research, 2005, 1045, 57-63.	1.1	170
61	Expression of TNF and the Necessity of TNF Receptors in Bleomycin-Induced Lung Injury in Mice. Experimental Lung Research, 1998, 24, 721-743.	0.5	166
62	Permeability of the bloodâ€"brain barrier to neurotrophins. Brain Research, 1998, 788, 87-94.	1.1	164
63	Tumor Necrosis Factor-Î±: a Neuromodulator in the CNS. Neuroscience and Biobehavioral Reviews, 1997, 21, 603-613.	2.9	163
64	Characterization of Blood-Brain Barrier Permeability to PYY3-36 in the Mouse. Journal of Pharmacology and Experimental Therapeutics, 2003, 306, 948-953.	1.3	162
65	Gut reactions: How the bloodâ€"brain barrier connects the microbiome and the brain. Experimental Biology and Medicine, 2018, 243, 159-165.	1.1	161
66	Role of the Blood-Brain Barrier in Central Nervous System Insulin Resistance. Frontiers in Neuroscience, 2019, 13, 521.	1.4	159
67	Peptides and the bloodâ€"brain barrier. Peptides, 2015, 72, 16-19.	1.2	157
68	Blood-borne interleukin-1 receptor antagonist crosses the blood-brain barrier. Journal of Neuroimmunology, 1994, 55, 153-160.	1.1	156
69	CNS tau efflux via exosomes is likely increased in Parkinson's disease but not in Alzheimer's disease. Alzheimer's and Dementia, 2016, 12, 1125-1131.	0.4	154
70	Permeability of the blood-brain barrier to amylin. Life Sciences, 1995, 57, 1993-2001.	2.0	152
71	Blood to brain transport of interleukin links the immune and central nervous systems. Life Sciences, 1991, 48, PL117-PL121.	2.0	151
72	Intranasal Delivery of Proteins and Peptides in the Treatment of Neurodegenerative Diseases. AAPS Journal, 2015, 17, 780-787.	2.2	151

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73	Angiotensin II Modulates BBB Permeability via Activation of the AT₁ Receptor in Brain Endothelial Cells. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 640-647.	2.4	150
74	Quantitative proteomics analysis of specific protein expression and oxidative modification in aged senescence-accelerated-prone 8 mice brain. Neuroscience, 2004, 126, 915-926.	1.1	148
75	Permeability of the bloodâ€“brain barrier to a novel satiety molecule nesfatin-1. Peptides, 2007, 28, 2372-2381.	1.2	148
76	Physiology and pathology of the blood-brain barrier: implications for microbial pathogenesis, drug delivery and neurodegenerative disorders. Journal of NeuroVirology, 1999, 5, 538-555.	1.0	146
77	Developmentally regulated mannose 6-phosphate receptor-mediated transport of a lysosomal enzyme across the blood-brain barrier. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12658-12663.	3.3	146
78	A Physiological Role for Amyloid-Î² Protein: Enhancement of Learning and Memory. Journal of Alzheimer's Disease, 2010, 19, 441-449.	1.2	144
79	Drug delivery to the brain in Alzheimer's disease: Consideration of the bloodâ€“brain barrier. Advanced Drug Delivery Reviews, 2012, 64, 629-639.	6.6	144
80	Peptides crossing the bloodâ€“brain barrier: some unusual observations. Brain Research, 1999, 848, 96-100.	1.1	140
81	The many lives of leptin. Peptides, 2004, 25, 331-338.	1.2	139
82	Alpha synuclein is transported into and out of the brain by the bloodâ€“brain barrier. Peptides, 2014, 62, 197-202.	1.2	138
83	Permeability of the bloodâ€“brain barrier to HIV-1 Tat. Experimental Neurology, 2005, 193, 218-227.	2.0	137
84	Intrathecal delivery of protein therapeutics to the brain: A critical reassessment. , 2014, 144, 114-122.		137
85	Leptin Transport Across the Blood-Brain Barrier: Implications for the Cause and Treatment of Obesity. Current Pharmaceutical Design, 2001, 7, 125-133.	0.9	135
86	Decreased levels of PSD95 and two associated proteins and increased levels of BCl₂ and caspase 3 in hippocampus from subjects with amnestic mild cognitive impairment: Insights into their potential roles for loss of synapses and memory, accumulation of AÎ², and neurodegeneration in a prodromal stage of Alzheimer's disease. Journal of Neuroscience Research, 2010, 88, 469-477.	1.3	135
87	The neurotrophins and their receptors: Structure, function, and neuropathology. Neuroscience and Biobehavioral Reviews, 1994, 18, 143-159.	2.9	132
88	Ghrelin-induced feeding is dependent on nitric oxide. Peptides, 2003, 24, 913-918.	1.2	132
89	Brain Uptake of the Glucagon-Like Peptide-1 Antagonist Exendin(9-39) after Intranasal Administration. Journal of Pharmacology and Experimental Therapeutics, 2004, 309, 469-475.	1.3	132
90	Effect of Diabetes Mellitus on the Permeability of the Bloodâ€“Brain Barrier to Insulin. Peptides, 1997, 18, 1577-1584.	1.2	131

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91	Effects of triglycerides, obesity, and starvation on ghrelin transport across the bloodâ€"brain barrier. Peptides, 2008, 29, 2061-2065.	1.2	129
92	A physiological role for amyloid-beta protein:enhancement of learning and memory. Journal of Alzheimer's Disease, 2010, 19, 441-9.	1.2	126
93	Passage of erythropoietic agents across the bloodâ€"brain barrier: a comparison of human and murine erythropoietin and the analog darbepoetin alfa. European Journal of Pharmacology, 2004, 505, 93-101.	1.7	124
94	Extra Virgin Olive Oil Improves Learning and Memory in SAMP8 Mice. Journal of Alzheimer's Disease, 2012, 28, 81-92.	1.2	124
95	Permeability of the blood-brain barrier to neuropeptides: The case for penetration. Psychoneuroendocrinology, 1985, 10, 385-399.	1.3	122
96	Transport of Human Immunodeficiency Virus Type 1 Pseudoviruses across the Blood-Brain Barrier: Role of Envelope Proteins and Adsorptive Endocytosis. Journal of Virology, 2001, 75, 4681-4691.	1.5	122
97	Effects of orexin-A on memory processing. Peptides, 2002, 23, 1683-1688.	1.2	122
98	Brain Meets Body: The Blood-Brain Barrier as an Endocrine Interface. Endocrinology, 2012, 153, 4111-4119.	1.4	122
99	Enhanced leptin transport across the bloodâ€"brain barrier by Î±1-adrenergic agents. Brain Research, 2001, 899, 209-217.	1.1	121
100	Antisense directed at the AÎ² region of APP decreases brain oxidative markers in aged senescence accelerated mice. Brain Research, 2004, 1018, 86-96.	1.1	121
101	Triglycerides cross the bloodâ€"brain barrier and induce central leptin and insulin receptor resistance. International Journal of Obesity, 2018, 42, 391-397.	1.6	120
102	Upregulation of the p75 But Not the p55 TNF- Î± Receptor mRNA after Silica and Bleomycin Exposure and Protection from Lung Injury in Double Receptor Knockout Mice. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 825-833.	1.4	118
103	Leucine competes with kynurenine for blood-to-brain transport and prevents lipopolysaccharide-induced depression-like behavior in mice. Molecular Psychiatry, 2019, 24, 1523-1532.	4.1	118
104	Proteomic analysis of specific brain proteins in aged SAMP8 mice treated with alpha-lipoic acid: implications for aging and age-related neurodegenerative disorders. Neurochemistry International, 2005, 46, 159-168.	1.9	117
105	Healthy aging and the bloodâ€"brain barrier. Nature Aging, 2021, 1, 243-254.	5.3	116
106	Partial saturation and regional variation in the blood-to-brain transport of leptin in normal weight mice. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E1158-E1165.	1.8	115
107	Oxidative modification to LDL receptor-related protein 1 in hippocampus from subjects with Alzheimer disease: Implications for AÎ² accumulation in AD brain. Free Radical Biology and Medicine, 2010, 49, 1798-1803.	1.3	115
108	Testing the Neurovascular Hypothesis of Alzheimer's Disease: LRP-1 Antisense Reduces Blood-brain Barrier Clearance, Increases Brain Levels of Amyloid-Î² Protein, and Impairs Cognition. Journal of Alzheimer's Disease, 2009, 17, 553-570.	1.2	111

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109	HIV proteins (gp120 and Tat) and methamphetamine in oxidative stress-induced damage in the brain: Potential role of the thiol antioxidant N-acetylcysteine amide. Free Radical Biology and Medicine, 2010, 48, 1388-1398.	1.3	109
110	Fate of Leptin after Intracerebroventricular Injection into the Mouse Brain. Endocrinology, 1998, 139, 4556-4562.	1.4	108
111	Age-Associated Changes in the Immune System and Bloodâ€"Brain Barrier Functions. International Journal of Molecular Sciences, 2019, 20, 1632.	1.8	107
112	Passage of human amyloid Î²-protein 1â€"40 across the murine blood-brain barrier. Life Sciences, 1994, 55, 1643-1650.	2.0	106
113	Unidirectional Specific and Modulated Brain to Blood Transport of Corticotropin-Releasing Hormone. Neuroendocrinology, 1996, 63, 338-348.	1.2	106
114	Peroxisome Proliferator-Activated Receptor-Î³-Mediated Positive Energy Balance in the Rat Is Associated with Reduced Sympathetic Drive to Adipose Tissues and Thyroid Status. Endocrinology, 2008, 149, 2121-2130.	1.4	106
115	Disruption of the hippocampal and hypothalamic bloodâ€"brain barrier in a diet-induced obese model of type II diabetes: prevention and treatment by the mitochondrial carbonic anhydrase inhibitor, topiramate. Fluids and Barriers of the CNS, 2019, 16, 1.	2.4	106
116	Effects of N-acetylcysteine amide (NACA), a novel thiol antioxidant against glutamate-induced cytotoxicity in neuronal cell line PC12. Brain Research, 2005, 1056, 132-138.	1.1	105
117	Saturable transport of peptides across the blood-brain barrier. Life Sciences, 1987, 41, 1319-1338.	2.0	104
118	Passage of peptides across the blood-brain barrier: Pathophysiological perspectives. Life Sciences, 1996, 59, 1923-1943.	2.0	104
119	Starvation and Triglycerides Reverse the Obesity-Induced Impairment of Insulin Transport at the Blood-Brain Barrier. Endocrinology, 2008, 149, 3592-3597.	1.4	104
120	Topiramate Treatment Protects Blood-Brain Barrier Pericytes from Hyperglycemia-Induced Oxidative Damage in Diabetic Mice. Endocrinology, 2012, 153, 362-372.	1.4	104
121	Carrier-mediated transport of vasopressin across the blood-brain barrier of the mouse. Journal of Neuroscience Research, 1987, 18, 326-332.	1.3	103
122	Leptin transport across the bloodâ€"brain barrier of the Koletsky rat is not mediated by a product of the leptin receptor gene. Brain Research, 2002, 950, 130-136.	1.1	102
123	Lipopolysaccharide impairs amyloid beta efflux from brain: altered vascular sequestration, cerebrospinal fluid reabsorption, peripheral clearance and transporter function at the bloodâ€"brain barrier. Journal of Neuroinflammation, 2012, 9, 150.	3.1	102
124	Blood to Brain and Brain to Blood Passage of Native Horseradish Peroxidase, Wheat Germ Agglutinin, and Albumin: Pharmacokinetic and Morphological Assessments. Journal of Neurochemistry, 1994, 62, 2404-2419.	2.1	101
125	Is Obesity a Disease of the Blood-Brain Barrier? Physiological, Pathological, and Evolutionary Considerations. Current Pharmaceutical Design, 2003, 9, 801-809.	0.9	101
126	Central Nervous System Delivery of Intranasal Insulin: Mechanisms of Uptake and Effects on Cognition. Journal of Alzheimer's Disease, 2015, 47, 715-728.	1.2	100

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127	The bloodâ€"brain barrier as an endocrine tissue. Nature Reviews Endocrinology, 2019, 15, 444-455.	4.3	100
128	Frailty and the aging male. Aging Male, 2005, 8, 135-140.	0.9	99
129	Interactions of SARS-CoV-2 with the Bloodâ€"Brain Barrier. International Journal of Molecular Sciences, 2021, 22, 2681.	1.8	99
130	Aluminum complexing enhances amyloid Î² protein penetration of bloodâ€"brain barrier. Brain Research, 2006, 1116, 215-221.	1.1	98
131	Loss of Appendicular Muscle Mass and Loss of Muscle Strength in Young Postmenopausal Women. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 330-335.	1.7	98
132	A novel antioxidant N-acetylcysteine amide prevents gp120- and Tat-induced oxidative stress in brain endothelial cells. Experimental Neurology, 2006, 201, 193-202.	2.0	97
133	Pegylated Leptin Antagonist Is a Potent Orexigenic Agent: Preparation and Mechanism of Activity. Endocrinology, 2009, 150, 3083-3091.	1.4	96
134	Lipids and Cognition. Journal of Alzheimer's Disease, 2010, 20, 737-747.	1.2	96
135	Permeability of the Blood-Brain Barrier to Soluble Cytokine Receptors. NeuroImmunoModulation, 1995, 2, 161-165.	0.9	95
136	Blood-Brain Barriers in Obesity. AAPS Journal, 2017, 19, 921-930.	2.2	95
137	Anti-amyloid beta protein antibody passage across the bloodâ€"brain barrier in the SAMP8 mouse model of Alzheimer's disease: An age-related selective uptake with reversal of learning impairment. Experimental Neurology, 2007, 206, 248-256.	2.0	94
138	Delivery of Galanin-Like Peptide to the Brain: Targeting with Intranasal Delivery and Cyclodextrins. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 513-519.	1.3	94
139	Insulin transport across the bloodâ€"brain barrier can occur independently of the insulin receptor. Journal of Physiology, 2018, 596, 4753-4765.	1.3	94
140	A brain-to-blood carrier-mediated transport system for small, N-Tyrosinated peptides. Pharmacology Biochemistry and Behavior, 1984, 21, 943-946.	1.3	93
141	N-Acetylcysteine amide protects against methamphetamine-induced oxidative stress and neurotoxicity in immortalized human brain endothelial cells. Brain Research, 2009, 1275, 87-95.	1.1	93
142	Permeability of the murine blood-brain barrier to some octapeptide analogs of somatostatin.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 6762-6766.	3.3	92
143	Bloodâ€"Brain Barrier Permeability to Ebiratide and TNF in Acute Spinal Cord Injury. Experimental Neurology, 1997, 146, 367-373.	2.0	92
144	The Blood-Brain Barrier as a Cause of Obesity. Current Pharmaceutical Design, 2008, 14, 1606-1614.	0.9	92

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145	Studies of the slow bidirectional transport of iron and transferrin across the blood-brain barrier. Brain Research Bulletin, 1988, 21, 881-885.	1.4	91
146	The Blood-Brain Barrier in NeuroAIDS. Current HIV Research, 2006, 4, 259-266.	0.2	90
147	Efflux of human and mouse amyloid Î² proteins 1â€“40 and 1â€“42 from brain: impairment in a mouse model of alzheimer's disease. Neuroscience, 2003, 121, 487-492.	1.1	89
148	Interleukin-1Î± in blood has direct access to cortical brain cells. Neuroscience Letters, 1993, 163, 41-44.	1.0	88
149	The effects of group and individual animal-assisted therapy on loneliness in residents of long-term care facilities. Anthrozoos, 2005, 18, 396-408.	0.7	88
150	The blood-brain barrier: Connecting the gut and the brain. Regulatory Peptides, 2008, 149, 11-14.	1.9	86
151	The extracellular matrix of the bloodâ€“brain barrier: structural and functional roles in health, aging, and Alzheimerâ€™s disease. Tissue Barriers, 2019, 7, 1651157.	1.6	85
152	Adiponectin does not cross the blood-brain barrier but modifies cytokine expression of brain endothelial cells. Diabetes, 2006, 55, 141-7.	0.3	84
153	Effect of Dietary n-3 Polyunsaturated Fatty Acids on Brain Lipid Fatty Acid Composition, Learning Ability, and Memory of Senescence-Accelerated Mouse. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 1153-1160.	1.7	83
154	High glucose-induced mitochondrial respiration and reactive oxygen species in mouse cerebral pericytes is reversed by pharmacological inhibition of mitochondrial carbonic anhydrases: Implications for cerebral microvascular disease in diabetes. Biochemical and Biophysical Research Communications, 2013, 440, 354-358.	1.0	83
155	Primary Adrenal Hyperplasia: A New Subset of Primary Hyperaldosteronism. Journal of Clinical Endocrinology and Metabolism, 1984, 58, 783-785.	1.8	82
156	Isolation of Peptide Transport System-6 from Brain Endothelial Cells: Therapeutic Effects with Antisense Inhibition in Alzheimer and Stroke Models. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 411-422.	2.4	82
157	Inflammation-induced dysfunction of the low-density lipoprotein receptor-related protein-1 at the bloodâ€“brain barrier: Protection by the antioxidant N-acetylcysteine. Brain, Behavior, and Immunity, 2012, 26, 1085-1094.	2.0	81
158	Interleukin-2 does not cross the blood-brain barrier by a saturable transport system. Brain Research Bulletin, 1994, 34, 103-109.	1.4	79
159	HIV-1 protein gp120 crosses the blood-brain barrier: Role of adsorptive endocytosis. Life Sciences, 1997, 61, PL119-PL125.	2.0	79
160	Adsorptive Endocytosis of HIV-1gp120 by Bloodâ€“Brain Barrier Is Enhanced by Lipopolysaccharide. Experimental Neurology, 1999, 156, 165-171.	2.0	78
161	Highly active antiretroviral therapy drug combination induces oxidative stress and mitochondrial dysfunction in immortalized human bloodâ€“brain barrier endothelial cells. Free Radical Biology and Medicine, 2011, 50, 801-810.	1.3	78
162	Opposite direction of transport across the blood-brain barrier for Tyr-MIF-1 and MIF-1: Comparison with morphine. Peptides, 1994, 15, 23-29.	1.2	77

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163	Polypeptide Point Modifications with Fatty Acid and Amphiphilic Block Copolymers for Enhanced Brain Delivery. Bioconjugate Chemistry, 2005, 16, 793-802.	1.8	76
164	Bloodâ€“Brain Barrier Disruption and Neurovascular Unit Dysfunction in Diabetic Mice: Protection with the Mitochondrial Carbonic Anhydrase Inhibitor Topiramate. Journal of Pharmacology and Experimental Therapeutics, 2016, 359, 452-459.	1.3	76
165	The bloodâ€“brain barrier as a regulatory interface in the gutâ€“brain axes. Physiology and Behavior, 2006, 89, 472-476.	1.0	75
166	Effect of Alpha-Lipoic Acid on Memory, Oxidation, and Lifespan in SAMP8 Mice. Journal of Alzheimer's Disease, 2012, 32, 447-455.	1.2	75
167	Rapid Transport of CCL11 across the Blood-Brain Barrier: Regional Variation and Importance of Blood Cells. Journal of Pharmacology and Experimental Therapeutics, 2014, 349, 497-507.	1.3	75
168	Development of Novel Therapeutics Targeting the Bloodâ€“Brain Barrier: From Barrier to Carrier. Advanced Science, 2021, 8, e2101090.	5.6	75
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