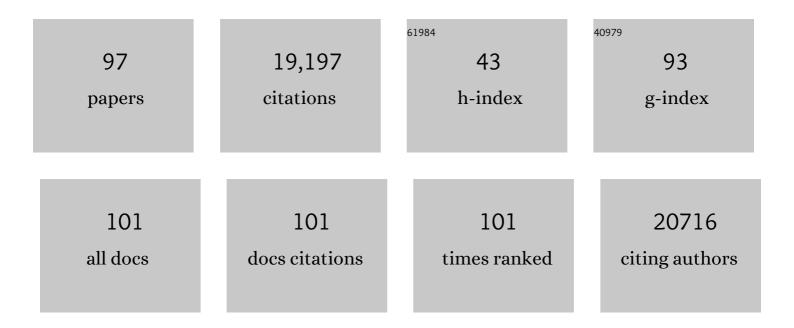
N Joan Abbott

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Astrocyte–endothelial interactions at the blood–brain barrier. Nature Reviews Neuroscience, 2006, 7, 41-53.	10.2	4,411
2	Structure and function of the blood–brain barrier. Neurobiology of Disease, 2010, 37, 13-25.	4.4	3,800
3	Astrocyte–endothelial interactions and blood–brain barrier permeability*. Journal of Anatomy, 2002, 200, 629-638.	1.5	1,001
4	Evidence for bulk flow of brain interstitial fluid: significance for physiology and pathology. Neurochemistry International, 2004, 45, 545-552.	3.8	702
5	Inflammatory mediators and modulation of blood-brain barrier permeability. Cellular and Molecular Neurobiology, 2000, 20, 131-147.	3.3	701
6	Blood–brain barrier structure and function and the challenges for CNS drug delivery. Journal of Inherited Metabolic Disease, 2013, 36, 437-449.	3.6	656
7	InÂvitro models of the blood–brain barrier: An overview of commonly used brain endothelial cell culture models and guidelines for their use. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 862-890.	4.3	588
8	Interaction between flavonoids and the blood–brain barrier: <i>in vitro</i> studies. Journal of Neurochemistry, 2003, 85, 180-192.	3.9	496
9	Flavonoid permeability across an in situ model of the blood–brain barrier. Free Radical Biology and Medicine, 2004, 36, 592-604.	2.9	493
10	Strategies to advance translational research into brain barriers. Lancet Neurology, The, 2008, 7, 84-96.	10.2	432
11	The role of brain barriers in fluid movement in the CNS: is there a â€~glymphatic' system?. Acta Neuropathologica, 2018, 135, 387-407.	7.7	429
12	Transporting therapeutics across the blood-brain barrier. Trends in Molecular Medicine, 1996, 2, 106-113.	2.6	403
13	Dynamics of CNS Barriers: Evolution, Differentiation, and Modulation. Cellular and Molecular Neurobiology, 2005, 25, 5-23.	3.3	389
14	Overview and introduction: The blood–brain barrier in health and disease. Epilepsia, 2012, 53, 1-6.	5.1	275
15	The blood–brain barrier in psychosis. Lancet Psychiatry,the, 2018, 5, 79-92.	7.4	212
16	Intrathecal antibody distribution in the rat brain: surface diffusion, perivascular transport and osmotic enhancement of delivery. Journal of Physiology, 2018, 596, 445-475.	2.9	201
17	The blood-brain barrier in systemic lupus erythematosus. Lupus, 2003, 12, 908-915.	1.6	185
18	The interaction of carbon nanotubes with an inÂvitro blood-brain barrier model and mouse brain inÂvivo. Biomaterials, 2015, 53, 437-452.	11.4	178

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19	Delivery of therapeutics to the inner ear: The challenge of the blood-labyrinth barrier. Science Translational Medicine, 2019, 11, .	12.4	174
20	Pluripotent Protective Effects of Carnosine, a Naturally Occurring Dipeptide ^a . Annals of the New York Academy of Sciences, 1998, 854, 37-53.	3.8	165
21	In vitro trans-monolayer permeability calculations: often forgotten assumptions. Drug Discovery Today, 2003, 8, 997-1003.	6.4	161
22	Prediction of blood–brain barrier permeation in drug discovery from in vivo, in vitro and in silico models. Drug Discovery Today: Technologies, 2004, 1, 407-416.	4.0	151
23	Molecular characterization of perivascular drainage pathways in the murine brain. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 669-686.	4.3	138
24	All vertebrates started out with a glial bloodâ€brain barrier 4–500 million years ago. Glia, 2008, 56, 699-708.	4.9	133
25	Establishment of a simplified in vitro porcine blood–brain barrier model with high transendothelial electrical resistance. Brain Research, 2013, 1521, 1-15.	2.2	125
26	Transcytosis of Macromolecules at the Blood–Brain Barrier. Advances in Pharmacology, 2014, 71, 147-163.	2.0	124
27	Delivery of paclitaxel across cellular barriers using a dendrimer-based nanocarrier. International Journal of Pharmaceutics, 2013, 441, 701-711.	5.2	121
28	LRP-1-mediated intracellular antibody delivery to the Central Nervous System. Scientific Reports, 2015, 5, 11990.	3.3	113
29	Translocation of LRP1 targeted carbon nanotubes of different diameters across the blood–brain barrier in vitro and in vivo. Journal of Controlled Release, 2016, 225, 217-229.	9.9	111
30	Induction of aquaporin 1 but not aquaporin 4 messenger RNA in rat primary brain microvessel endothelial cells in culture. Journal of Neurochemistry, 2005, 93, 825-833.	3.9	104
31	Functional Expression of Pâ€Glycoprotein in an Immortalised Cell Line of Rat Brain Endothelial Cells, RBE4. Journal of Neurochemistry, 1996, 67, 988-995.	3.9	96
32	Evidence that glutamate mediates Axon-to-Schwann cell signaling in the squid. Glia, 1989, 2, 94-102.	4.9	94
33	A detailed method for preparation of a functional and flexible blood–brain barrier model using porcine brain endothelial cells. Brain Research, 2013, 1521, 16-30.	2.2	93
34	An Improved In Vitro Blood–Brain Barrier Model: Rat Brain Endothelial Cells Co-cultured with Astrocytes. Methods in Molecular Biology, 2012, 814, 415-430.	0.9	90
35	An Overview of In Vitro Techniques for Blood-Brain Barrier Studies. , 2003, 89, 307-324.		84
36	Vascular and Parenchymal Mechanisms in Multiple Drug Resistance: a Lesson from Human Epilepsy. Current Drug Targets, 2003, 4, 297-304.	2.1	75

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37	Receptor-mediated changes in intracellular [Ca2+] in cultured rat brain capillary endothelial cells. Brain Research, 1991, 549, 159-161.	2.2	71
38	Bradykinin increases permeability by calcium and 5-lipoxygenase in the ECV304/C6 cell culture model of the blood–brain barrier. Brain Research, 2002, 953, 157-169.	2.2	71
39	Drug Resistance in Epilepsy: The Role of the Blood-Brain Barrier. Novartis Foundation Symposium, 2008, , 38-53.	1.1	67
40	Assays to Predict Drug Permeation Across the Blood-Brain Barrier, and Distribution to Brain. Current Drug Metabolism, 2008, 9, 901-910.	1.2	64
41	P-Glycoprotein expression in human retinal pigment epithelium cell lines. Experimental Eye Research, 2006, 83, 24-30.	2.6	62
42	TRPA1–FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. Nature Communications, 2017, 8, 947.	12.8	56
43	The Blood-Brain Interface in Invertebrates. Annals of the New York Academy of Sciences, 1986, 481, 20-42.	3.8	55
44	A High-Content Small Molecule Screen Identifies Sensitivity of Glioblastoma Stem Cells to Inhibition of Polo-Like Kinase 1. PLoS ONE, 2013, 8, e77053.	2.5	53
45	Na+-Ca2+exchange and its implications for calcium homeostasis in primary cultured rat brain microvascular endothelial cells. Journal of Physiology, 1999, 515, 147-155.	2.9	47
46	Understanding the Physiology of the Blood-Brain Barrier: In Vitro Models. Physiology, 1998, 13, 287-293.	3.1	40
47	Brain to blood efflux transport of adenosine: blood-brain barrier studies in the rat. Journal of Neurochemistry, 2004, 90, 272-286.	3.9	36
48	Physiology of the blood–brain barrier and its consequences for drug transport to the brain. International Congress Series, 2005, 1277, 3-18.	0.2	36
49	Uptake and metabolism of sulphated steroids by the blood–brain barrier in the adult male rat. Journal of Neurochemistry, 2017, 142, 672-685.	3.9	36
50	Characteristics of nucleotide receptors that cause elevation of cytoplasmic calcium in immortalized rat brain endothelial cells (RBE4) and in primary cultures. British Journal of Pharmacology, 1995, 115, 1245-1252.	5.4	33
51	Carrier-Mediated Delivery of Metabotropic Glutamate Receptor Ligands to the Central Nervous System: Structural Tolerance and Potential of the l-system Amino Acid Transporter at the Blood-Brain Barrier. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 168-174.	4.3	32
52	Access of ferritin to the interstitial space of Carcinus brain from intracerebral blood vessels. Tissue and Cell, 1972, 4, 99-104.	2.2	31
53	Blood—brain barrier opened by stimulation of the parasympathetic sphenopalatine ganglion: a new method for macromolecule delivery to the brain. Journal of Neurosurgery, 2004, 101, 303-309.	1.6	30
54	Transendothelial electrical potential across pial vessels in anaesthetised rats: a study of ion permeability and transport at the blood-brain barrier. Brain Research, 1994, 652, 76-82.	2.2	29

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55	Drug resistance in epilepsy: the role of the blood-brain barrier. Novartis Foundation Symposium, 2002, 243, 38-47; discussion 47-53, 180-5.	1.1	29
56	LIPIDS IN BLOOD–BRAIN BARRIER MODELS IN VITRO II: INFLUENCE OF GLIAL CELLS ON LIPID CLASSES AND LIPID FATTY ACIDS. In Vitro Cellular and Developmental Biology - Animal, 2002, 38, 566.	1.5	27
57	The endo-lysosomal system of bEnd.3 and hCMEC/D3 brain endothelial cells. Fluids and Barriers of the CNS, 2019, 16, 14.	5.0	27
58	LIPIDS IN BLOOD–BRAIN BARRIER MODELS IN VITRO I: THIN-LAYER CHROMATOGRAPHY AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY FOR THE ANALYSIS OF LIPID CLASSES AND LONG-CHAIN POLYUNSATURATED FATTY ACIDS. In Vitro Cellular and Developmental Biology - Animal, 2002, 38, 557.	1.5	26
59	Role of astrocytic leptin receptor subtypes on leptin permeation across hCMEC/D3 human brain endothelial cells. Journal of Neurochemistry, 2010, 115, 1288-1298.	3.9	26
60	Primary Porcine Brain Microvessel Endothelial Cell Isolation and Culture. Current Protocols in Neuroscience, 2014, 69, 3.27.1-17.	2.6	25
61	A Multi-System Approach Assessing the Interaction of Anticonvulsants with P-gp. PLoS ONE, 2013, 8, e64854.	2.5	25
62	Permeability and Transport of Glial Blood-Brain Barriers. Annals of the New York Academy of Sciences, 1991, 633, 378-394.	3.8	24
63	Functional characterisation of nucleoside transport in rat brain endothelial cells. NeuroReport, 2003, 14, 1087-1090.	1.2	24
64	Functional characterisation of nucleoside transport in rat brain endothelial cells. NeuroReport, 2003, 14, 1087-1090.	1.2	24
65	Bidirectional apical–basal traffic of the cation-independent mannose-6-phosphate receptor in brain endothelial cells. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2598-2613.	4.3	23
66	CoQ10 Deficient Endothelial Cell Culture Model for the Investigation of CoQ10 Blood–Brain Barrier Transport. Journal of Clinical Medicine, 2020, 9, 3236.	2.4	22
67	The pharmacology of nucleotide receptors on primary rat brain endothelial cells grown on a biological extracellular matrix: effects on intracellular calcium concentration. British Journal of Pharmacology, 2000, 131, 1195-1203.	5.4	20
68	Evaluation of the RBE4 Cell Line to Explore Carrier-mediated Drug Delivery to the CNS Via the L-system Amino Acid Transporter At the Blood-Brain Barrier. Journal of Drug Targeting, 2002, 10, 277-283.	4.4	20
69	Glia and the blood—brain barrier. Nature, 1987, 325, 195-195.	27.8	19
70	In Vitro Models of CNS Barriers. AAPS Advances in the Pharmaceutical Sciences Series, 2014, , 163-197.	0.6	19
71	The action of phospholipases on the inner and outer surface of the squid giant axon membrane. Journal of Physiology, 1972, 220, 73-86.	2.9	17
72	Improved Method for the Establishment of an In Vitro Blood-Brain Barrier Model Based on Porcine Brain Endothelial Cells. Journal of Visualized Experiments, 2017, , .	0.3	17

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73	In vitro porcine blood–brain barrier model for permeability studies: pCEL-X software pKaFLUX method for aqueous boundary layer correction and detailed data analysis. European Journal of Pharmaceutical Sciences, 2014, 65, 98-111.	4.0	16
74	Role of intracellular calcium in regulation of brain endothelial permeability. , 1998, , 345-353.		15
75	Interaction of Nucleoside Analogues with Nucleoside Transporters in Rat Brain Endothelial Cells. Journal of Drug Targeting, 2004, 12, 265-272.	4.4	15
76	Primitive forms of brain homeostasis. Trends in Neurosciences, 1979, 2, 91-93.	8.6	13
77	Longitudinal serum S100β and brain aging in the Lothian Birth Cohort 1936. Neurobiology of Aging, 2018, 69, 274-282.	3.1	13
78	Ionic permeability of the frog sciatic nerve perineurium: parallel studies of potassium and lanthanum penetration using electrophysiological and electron microscopic techniques. Journal of Neurocytology, 2000, 29, 551-567.	1.5	12
79	Fine-structural investigation of rat brain microvascular endothelial cells: Tight junctions and vesicular structures in freshly isolated and cultured preparations. Journal of Neurocytology, 1995, 24, 347-360.	1.5	11
80	Characterization of a novel brain barrier ex vivo insectâ€based Pâ€glycoprotein screening model. Pharmacology Research and Perspectives, 2014, 2, e00050.	2.4	10
81	Ionic currents in isolated and in situ squid Schwann cells. Journal of Physiology, 2002, 541, 769-778.	2.9	9
82	Anatomy and Physiology of the Blood–Brain Barriers. AAPS Advances in the Pharmaceutical Sciences Series, 2014, , 3-21.	0.6	9
83	Glucosamine-NISV delivers antibody across the blood-brain barrier: Optimization for treatment of encephalitic viruses. Journal of Controlled Release, 2020, 324, 644-656.	9.9	9
84	The milieu is the message. Nature, 1988, 332, 490-491.	27.8	8
85	Increased oxidative metabolism and oxidative stress in <i>m</i> dinitrobenzene neurotoxicity. Biochemical Society Transactions, 1994, 22, 407S-407S.	3.4	7
86	Adhesion and Growth of Brain Microvascular Endothelial Cells on Treated Glass. Endothelium: Journal of Endothelial Cell Research, 1996, 4, 297-307.	1.7	7
87	The Na-K ATPase of the Blood-Brain Barrier: A Microelectrode Study. Annals of the New York Academy of Sciences, 1986, 481, 390-391.	3.8	6
88	Investigation of receptors responsive to pyrimidines. Trends in Pharmacological Sciences, 1997, 18, 413-414.	8.7	6
89	Biological Models to Study Blood-Brain Barrier Permeation. , 0, , 127-153.		6
90	Cross reactivity of polyclonal GFAP antiserum: implications for the in-vitro characterisation of brain endothelium. Brain Research, 2004, 1012, 185-186.	2.2	4

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91	Amino acid transport by a glial blood-brain barrier: studies in an elasmobranch fish. , 1988, , 241-244.		3
92	Impact of capillary flow hydrodynamics on carrier-mediated transport of opioid derivatives at the blood-brain barrier, based on pH-dependent Michaelis-Menten and Crone-Renkin analyses. European Journal of Pharmaceutical Sciences, 2017, 106, 274-286.	4.0	2
93	Anatomy and Physiology of the Blood-Brain Barriers*. AAPS Advances in the Pharmaceutical Sciences Series, 2022, , 3-25.	0.6	2
94	High K+ content explains the abolition of the action potential in amphibian sciatic nerve in vitro byLathyrus sativus seed extract. Experientia, 1979, 35, 1363-1364.	1.2	1
95	Electrophysiological Properties of Squid Giant Axon Schwann Cells Annals of the New York Academy of Sciences, 1991, 633, 607-609.	3.8	1
96	Introduction: Special Issue in Honor of Eva Syková. Neurochemical Research, 2020, 45, 1-4.	3.3	1
97	Whispers in the nervous system: Do glia and brain endothelial cells talk to each other, and if so what do they say?. , 2003, , 8-11.		0