

William M Pardridge

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389
papers

27,233
citations

88
h-index

150
g-index

410
ext. papers

29,709
ext. citations

6.1
avg, IF

7.87
L-index

#	Paper	IF	Citations
389	The blood-brain barrier: bottleneck in brain drug development. <i>NeuroRx</i> , 2005 , 2, 3-14		1669
388	Drug transport across the blood-brain barrier. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1959-72	7.3	942
387	Blood-brain barrier delivery. <i>Drug Discovery Today</i> , 2007 , 12, 54-61	8.8	840
386	Blood-brain barrier drug targeting: the future of brain drug development. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2003 , 3, 90-105, 51		501
385	Transport of metabolic substrates through the blood-brain barrier. <i>Journal of Neurochemistry</i> , 1977 , 28, 5-12	6	486
384	Capillary depletion method for quantification of blood-brain barrier transport of circulating peptides and plasma proteins. <i>Journal of Neurochemistry</i> , 1990 , 54, 1882-8	6	410
383	Transport of protein-bound hormones into tissues in vivo. <i>Endocrine Reviews</i> , 1981 , 2, 103-23	27.2	376
382	Strategies to advance translational research into brain barriers. <i>Lancet Neurology</i> , 2008 , 7, 84-96	24.1	370
381	Drug targeting to the brain. <i>Pharmaceutical Research</i> , 2007 , 24, 1733-44	4.5	349
380	Drug and gene targeting to the brain with molecular Trojan horses. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 131-9	64.1	349
379	Delivery of peptides and proteins through the blood-brain barrier. <i>Advanced Drug Delivery Reviews</i> , 2001 , 46, 247-79	18.5	348
378	Blood-brain barrier biology and methodology. <i>Journal of NeuroVirology</i> , 1999 , 5, 556-69	3.9	342
377	Drug and gene delivery to the brain: the vascular route. <i>Neuron</i> , 2002 , 36, 555-8	13.9	329
376	Blood-brain barrier transcytosis of insulin in developing rabbits. <i>Brain Research</i> , 1987 , 420, 32-8	3.7	319
375	Human blood-brain barrier insulin receptor. <i>Journal of Neurochemistry</i> , 1985 , 44, 1771-8	6	317
374	CNS drug design based on principles of blood-brain barrier transport. <i>Journal of Neurochemistry</i> , 1998 , 70, 1781-92	6	315
373	Transport of steroid hormones through the rat blood-brain barrier. Primary role of albumin-bound hormone. <i>Journal of Clinical Investigation</i> , 1979 , 64, 145-54	15.9	312

372	Intravenous RNA interference gene therapy targeting the human epidermal growth factor receptor prolongs survival in intracranial brain cancer. <i>Clinical Cancer Research</i> , 2004 , 10, 3667-77	12.9	286
371	Human blood-brain barrier transferrin receptor. <i>Metabolism: Clinical and Experimental</i> , 1987 , 36, 892-5	12.7	274
370	Receptor-mediated peptide transport through the blood-brain barrier. <i>Endocrine Reviews</i> , 1986 , 7, 314-30	10.2	264
369	Kinetic analysis of blood-brain barrier transport of amino acids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975 , 401, 128-36	3.8	263
368	Kinetics of blood-brain barrier transport of pyruvate, lactate and glucose in suckling, weanling and adult rats. <i>Journal of Neurochemistry</i> , 1979 , 33, 439-45	6	250
367	Human insulin receptor monoclonal antibody undergoes high affinity binding to human brain capillaries in vitro and rapid transcytosis through the blood-brain barrier in vivo in the primate. <i>Pharmaceutical Research</i> , 1995 , 12, 807-16	4.5	226
366	Drug delivery to the brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997 , 17, 713-31	7.3	221
365	CSF, blood-brain barrier, and brain drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 963-75	8	214
364	Transport of small molecules through the blood-brain barrier: biology and methodology. <i>Advanced Drug Delivery Reviews</i> , 1995 , 15, 5-36	18.5	211
363	Kinetics of blood-brain transport of hexoses. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975 , 382, 377-92	3.8	211
362	Expression of the neonatal Fc receptor (FcRn) at the blood-brain barrier. <i>Journal of Neurochemistry</i> , 2002 , 81, 203-6	6	193
361	Mediated efflux of IgG molecules from brain to blood across the blood-brain barrier. <i>Journal of Neuroimmunology</i> , 2001 , 114, 168-72	3.5	192
360	Blood-brain barrier carrier-mediated transport and brain metabolism of amino acids. <i>Neurochemical Research</i> , 1998 , 23, 635-44	4.6	191
359	Synthesis of pegylated immunonanoparticles. <i>Pharmaceutical Research</i> , 2002 , 19, 1137-43	4.5	178
358	Intravenous nonviral gene therapy causes normalization of striatal tyrosine hydroxylase and reversal of motor impairment in experimental parkinsonism. <i>Human Gene Therapy</i> , 2003 , 14, 1-12	4.8	176
357	Molecular Trojan horses for blood-brain barrier drug delivery. <i>Current Opinion in Pharmacology</i> , 2006 , 6, 494-500	5.1	173
356	Serum bioavailability of sex steroid hormones. <i>Clinics in Endocrinology and Metabolism</i> , 1986 , 15, 259-78		157
355	Humanization of anti-human insulin receptor antibody for drug targeting across the human blood-brain barrier. <i>Biotechnology and Bioengineering</i> , 2007 , 96, 381-91	4.9	155

354	Transport of human recombinant brain-derived neurotrophic factor (BDNF) through the rat blood-brain barrier in vivo using vector-mediated peptide drug delivery. <i>Pharmaceutical Research</i> , 1994 , 11, 738-46	4.5	154
353	Neuroprotection in transient focal brain ischemia after delayed intravenous administration of brain-derived neurotrophic factor conjugated to a blood-brain barrier drug targeting system. <i>Stroke</i> , 2001 , 32, 1378-84	6.7	152
352	Transport across the primate blood-brain barrier of a genetically engineered chimeric monoclonal antibody to the human insulin receptor. <i>Pharmaceutical Research</i> , 2000 , 17, 266-74	4.5	151
351	shRNA and siRNA delivery to the brain. <i>Advanced Drug Delivery Reviews</i> , 2007 , 59, 141-52	18.5	149
350	Global non-viral gene transfer to the primate brain following intravenous administration. <i>Molecular Therapy</i> , 2003 , 7, 11-8	11.7	148
349	Conjugation of brain-derived neurotrophic factor to a blood-brain barrier drug targeting system enables neuroprotection in regional brain ischemia following intravenous injection of the neurotrophin. <i>Brain Research</i> , 2001 , 889, 49-56	3.7	142
348	Transport of [¹²⁵ I]transferrin through the rat blood-brain barrier. <i>Brain Research</i> , 1995 , 683, 164-71	3.7	141
347	Carrier-mediated transport of thyroid hormones through the rat blood-brain barrier: primary role of albumin-bound hormone. <i>Endocrinology</i> , 1979 , 105, 605-12	4.8	141
346	Biopharmaceutical drug targeting to the brain. <i>Journal of Drug Targeting</i> , 2010 , 18, 157-67	5.4	140
345	Reengineering biopharmaceuticals for targeted delivery across the blood-brain barrier. <i>Methods in Enzymology</i> , 2012 , 503, 269-92	1.7	139
344	Molecular biology of the blood-brain barrier. <i>Molecular Biotechnology</i> , 2005 , 30, 57-70	3	138
343	Re-engineering biopharmaceuticals for delivery to brain with molecular Trojan horses. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1327-38	6.3	135
342	Blood-brain barrier genomics. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001 , 21, 61-8	7.3	135
341	Antisense gene therapy of brain cancer with an artificial virus gene delivery system. <i>Molecular Therapy</i> , 2002 , 6, 67-72	11.7	131
340	Human blood-brain barrier insulin-like growth factor receptor. <i>Metabolism: Clinical and Experimental</i> , 1988 , 37, 136-40	12.7	130
339	Blood-brain barrier targeting of BDNF improves motor function in rats with middle cerebral artery occlusion. <i>Brain Research</i> , 2006 , 1111, 227-9	3.7	128
338	Alzheimer's disease drug development and the problem of the blood-brain barrier. <i>Alzheimer's and Dementia</i> , 2009 , 5, 427-32	1.2	123
337	Palmitate and cholesterol transport through the blood-brain barrier. <i>Journal of Neurochemistry</i> , 1980 , 34, 463-6	6	120

336	Receptor-mediated gene targeting to tissues in vivo following intravenous administration of pegylated immunoliposomes. <i>Pharmaceutical Research</i> , 2001 , 18, 1091-5	4.5	119
335	Gene expression of GLUT3 and GLUT1 glucose transporters in human brain tumors. <i>Molecular Brain Research</i> , 1994 , 27, 51-7		117
334	Blood-brain barrier: interface between internal medicine and the brain. <i>Annals of Internal Medicine</i> , 1986 , 105, 82-95	8	117
333	Enhanced neuroprotective effects of basic fibroblast growth factor in regional brain ischemia after conjugation to a blood-brain barrier delivery vector. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 301, 605-10	4.7	114
332	Vector-mediated drug delivery to the brain. <i>Advanced Drug Delivery Reviews</i> , 1999 , 36, 299-321	18.5	114
331	Genetic engineering of a lysosomal enzyme fusion protein for targeted delivery across the human blood-brain barrier. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 475-84	4.9	113
330	Glucose deprivation causes posttranscriptional enhancement of brain capillary endothelial glucose transporter gene expression via GLUT1 mRNA stabilization. <i>Journal of Neurochemistry</i> , 1993 , 60, 2290-6	6	113
329	Rapid sequestration and degradation of somatostatin analogues by isolated brain microvessels. <i>Journal of Neurochemistry</i> , 1985 , 44, 1178-84	6	111
328	Receptor-mediated delivery of an antisense gene to human brain cancer cells. <i>Journal of Gene Medicine</i> , 2002 , 4, 183-94	3.5	109
327	Rapid transferrin efflux from brain to blood across the blood-brain barrier. <i>Journal of Neurochemistry</i> , 2001 , 76, 1597-600	6	109
326	Combined use of carboxyl-directed protein pegylation and vector-mediated blood-brain barrier drug delivery system optimizes brain uptake of brain-derived neurotrophic factor following intravenous administration. <i>Pharmaceutical Research</i> , 1998 , 15, 576-82	4.5	108
325	Brain microvascular and astrocyte localization of P-glycoprotein. <i>Journal of Neurochemistry</i> , 1997 , 68, 1278-85	6	107
324	Intravenous siRNA of brain cancer with receptor targeting and avidin-biotin technology. <i>Pharmaceutical Research</i> , 2007 , 24, 2309-16	4.5	106
323	Normalization of striatal tyrosine hydroxylase and reversal of motor impairment in experimental parkinsonism with intravenous nonviral gene therapy and a brain-specific promoter. <i>Human Gene Therapy</i> , 2004 , 15, 339-50	4.8	106
322	In vivo knockdown of gene expression in brain cancer with intravenous RNAi in adult rats. <i>Journal of Gene Medicine</i> , 2003 , 5, 1039-45	3.5	105
321	The brain-type glucose transporter mRNA is specifically expressed at the blood-brain barrier. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 166, 174-9	3.4	102
320	Fusion antibody for Alzheimer's disease with bidirectional transport across the blood-brain barrier and abeta fibril disaggregation. <i>Bioconjugate Chemistry</i> , 2007 , 18, 447-55	6.3	101
319	Intravenous, non-viral RNAi gene therapy of brain cancer. <i>Expert Opinion on Biological Therapy</i> , 2004 , 4, 1103-13	5.4	99

318	Blood-brain barrier drug delivery of IgG fusion proteins with a transferrin receptor monoclonal antibody. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 207-22	8	98
317	Engineering and expression of a chimeric transferrin receptor monoclonal antibody for blood-brain barrier delivery in the mouse. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1251-8	4.9	98
316	Kinetics of transport and phosphorylation of 2-fluoro-2-deoxy-D-glucose in rat brain. <i>Journal of Neurochemistry</i> , 1983 , 40, 160-7	6	97
315	Delivery of beta-galactosidase to mouse brain via the blood-brain barrier transferrin receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 313, 1075-81	4.7	96
314	Kinetics of regional blood-brain barrier transport and brain phosphorylation of glucose and 2-deoxyglucose the barbiturate-anesthetized rat. <i>Journal of Neurochemistry</i> , 1982 , 38, 560-8	6	96
313	The interaction of transport and metabolism on brain glucose utilization: a reevaluation of the lumped constant. <i>Journal of Neurochemistry</i> , 1981 , 36, 1601-4	6	93
312	Restricted transport of vitamin D and A derivatives through the rat blood-brain barrier. <i>Journal of Neurochemistry</i> , 1985 , 44, 1138-41	6	92
311	Blood-brain barrier transport of valproic acid. <i>Journal of Neurochemistry</i> , 1985 , 44, 1541-50	6	92
310	Enkephalin and blood-brain barrier: studies of binding and degradation in isolated brain microvessels. <i>Endocrinology</i> , 1981 , 109, 1138-43	4.8	92
309	Blood-Brain Barrier and Delivery of Protein and Gene Therapeutics to Brain. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 373	5.3	91
308	Brain Drug Targeting: The Future of Brain Drug Development 2001 ,		91
307	Transport of propranolol and lidocaine through the rat blood-brain barrier. Primary role of globulin-bound drug. <i>Journal of Clinical Investigation</i> , 1983 , 71, 900-8	15.9	90
306	Carboxyl-directed pegylation of brain-derived neurotrophic factor markedly reduces systemic clearance with minimal loss of biologic activity. <i>Pharmaceutical Research</i> , 1997 , 14, 1085-91	4.5	89
305	P-Glycoprotein on astrocyte foot processes of unfixed isolated human brain capillaries. <i>Brain Research</i> , 1999 , 819, 143-6	3.7	89
304	Restrictive transport of a lipid-soluble peptide (cyclosporin) through the blood-brain barrier. <i>Journal of Neurochemistry</i> , 1985 , 45, 1954-6	6	88
303	Transport of albumin-bound melatonin through the blood-brain barrier. <i>Journal of Neurochemistry</i> , 1980 , 34, 1761-3	6	87
302	Targeting neurotherapeutic agents through the blood-brain barrier. <i>Archives of Neurology</i> , 2002 , 59, 35-40		86
301	Delivery of Biologics Across the Blood-Brain Barrier with Molecular Trojan Horse Technology. <i>BioDrugs</i> , 2017 , 31, 503-519	7.9	85

300	Blood-brain barrier endogenous transporters as therapeutic targets: a new model for small molecule CNS drug discovery. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 1059-72	6.4	83
299	Targeted delivery of protein and gene medicines through the blood-brain barrier. <i>Clinical Pharmacology and Therapeutics</i> , 2015 , 97, 347-61	6.1	83
298	Log(BB), PS products and in silico models of drug brain penetration. <i>Drug Discovery Today</i> , 2004 , 9, 392-38.8		79
297	hnRNP A2 and hnRNP L bind the 3'UTR of glucose transporter 1 mRNA and exist as a complex in vivo. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 261, 646-51	3.4	78
296	Gene therapy of the brain: the trans-vascular approach. <i>Neurology</i> , 2004 , 62, 1275-81	6.5	77
295	Blood-brain barrier transport of butanol and water relative to N-isopropyl-p-iodoamphetamine as the internal reference. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1985 , 5, 275-81	7.3	77
294	GDNF fusion protein for targeted-drug delivery across the human blood-brain barrier. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 387-96	4.9	76
293	Immunohistochemical study of cerebral amyloid angiopathy. III. Widespread Alzheimer A4 peptide in cerebral microvessel walls colocalizes with gamma trace in patients with leukoencephalopathy. <i>Annals of Neurology</i> , 1990 , 28, 34-42	9.4	76
292	Tyrosine hydroxylase replacement in experimental Parkinson's disease with transvascular gene therapy. <i>NeuroRx</i> , 2005 , 2, 129-38		75
291	Pharmacokinetics and brain uptake of a genetically engineered bifunctional fusion antibody targeting the mouse transferrin receptor. <i>Molecular Pharmaceutics</i> , 2010 , 7, 237-44	5.6	73
290	Pharmacokinetics and delivery of tat and tat-protein conjugates to tissues in vivo. <i>Bioconjugate Chemistry</i> , 2001 , 12, 995-9	6.3	73
289	Intravenous glial-derived neurotrophic factor gene therapy of experimental Parkinson's disease with Trojan horse liposomes and a tyrosine hydroxylase promoter. <i>Journal of Gene Medicine</i> , 2008 , 10, 306-15	3.5	72
288	Blood-brain barrier delivery of protein and non-viral gene therapeutics with molecular Trojan horses. <i>Journal of Controlled Release</i> , 2007 , 122, 345-8	11.7	69
287	Selective targeting of a TNFR decoy receptor pharmaceutical to the primate brain as a receptor-specific IgG fusion protein. <i>Journal of Biotechnology</i> , 2010 , 146, 84-91	3.7	68
286	Genetic engineering, expression, and activity of a fusion protein of a human neurotrophin and a molecular Trojan horse for delivery across the human blood-brain barrier. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 1376-86	4.9	68
285	Brain protection from stroke with intravenous TNF decoy receptor-Trojan horse fusion protein. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1933-8	7.3	67
284	Transport of insulin-related peptides and glucose across the blood-brain barrier. <i>Annals of the New York Academy of Sciences</i> , 1993 , 692, 126-37	6.5	67
283	Insulin receptor antibody-iduronate 2-sulfatase fusion protein: pharmacokinetics, anti-drug antibody, and safety pharmacology in Rhesus monkeys. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 2317-25	4.9	66

282	Monoclonal antibody radiopharmaceuticals: cationization, pegylation, radiometal chelation, pharmacokinetics, and tumor imaging. <i>Bioconjugate Chemistry</i> , 2003 , 14, 546-53	6.3	66
281	A one-step procedure for isolation of poly(A)+ mRNA from isolated brain capillaries and endothelial cells in culture. <i>Journal of Neurochemistry</i> , 1991 , 57, 2136-9	6	66
280	Molecular cloning of the bovine blood-brain barrier glucose transporter cDNA and demonstration of phylogenetic conservation of the 5'-untranslated region. <i>Molecular and Cellular Neurosciences</i> , 1990 , 1, 224-32	4.8	66
279	Chimeric peptides as a vehicle for peptide pharmaceutical delivery through the blood-brain barrier. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 146, 307-13	3.4	66
278	Organ-specific gene expression in the rhesus monkey eye following intravenous non-viral gene transfer. <i>Molecular Vision</i> , 2003 , 9, 465-72	2.3	66
277	Imaging brain amyloid of Alzheimer disease in vivo in transgenic mice with an Aβ peptide radiopharmaceutical. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 22, 223-31	7.3	65
276	Blood-brain barrier transport of reduced folic acid. <i>Pharmaceutical Research</i> , 1999 , 16, 415-9	4.5	65
275	Drug targeting of erythropoietin across the primate blood-brain barrier with an IgG molecular Trojan horse. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 333, 961-9	4.7	64
274	Up-regulation of blood-brain barrier short-form leptin receptor gene products in rats fed a high fat diet. <i>Journal of Neurochemistry</i> , 1998 , 71, 1761-4	6	64
273	Cloned blood-brain barrier adenosine transporter is identical to the rat concentrative Na ⁺ nucleoside cotransporter CNT2. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001 , 21, 929-36	7.3	64
272	Crossing the blood-brain barrier: are we getting it right?. <i>Drug Discovery Today</i> , 2001 , 6, 1-2	8.8	63
271	Enhanced cellular uptake of biotinylated antisense oligonucleotide or peptide mediated by avidin, a cationic protein. <i>FEBS Letters</i> , 1991 , 288, 30-2	3.8	63
270	Amyloid angiopathy of Alzheimer's disease: amino acid composition and partial sequence of a 4,200-dalton peptide isolated from cortical microvessels. <i>Journal of Neurochemistry</i> , 1987 , 49, 1394-401	6	63
269	Glucose deprivation and hypoxia increase the expression of the GLUT1 glucose transporter via a specific mRNA cis-acting regulatory element. <i>Journal of Neurochemistry</i> , 2002 , 80, 552-4	6	62
268	Transport of tryptophan into brain from the circulating, albumin-bound pool in rats and in rabbits. <i>Journal of Neurochemistry</i> , 1990 , 54, 971-6	6	62
267	Blood-brain barrier protein phosphorylation and dephosphorylation. <i>Journal of Neurochemistry</i> , 1985 , 45, 1141-7	6	62
266	Enhanced hepatic extraction of estrogens used for replacement therapy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1986 , 62, 761-6	5.6	62
265	Neurocognitive and somatic stabilization in pediatric patients with severe Mucopolysaccharidosis Type I after 52 weeks of intravenous brain-penetrating insulin receptor antibody-iduronidase fusion protein (valanafusp alpha): an open label phase 1-2 trial. <i>Orphanet Journal of Rare Diseases</i> , 2018 , 13, 110	4.2	61

264	Astrocyte growth stimulation by a soluble factor produced by cerebral endothelial cells in vitro. <i>Journal of Neuropathology and Experimental Neurology</i> , 1990 , 49, 539-49	3.1	61
263	Beta-endorphin chimeric peptides: transport through the blood-brain barrier in vivo and cleavage of disulfide linkage by brain. <i>Endocrinology</i> , 1990 , 126, 977-84	4.8	61
262	Pathological upregulation of inner blood-retinal barrier Glut1 glucose transporter expression in diabetes mellitus. <i>Brain Research</i> , 1996 , 706, 313-7	3.7	60
261	Kinetics of neutral amino acid transport through the blood-brain barrier of the newborn rabbit. <i>Journal of Neurochemistry</i> , 1982 , 38, 955-62	6	60
260	BBB-Genomics: creating new openings for brain-drug targeting. <i>Drug Discovery Today</i> , 2001 , 6, 381-383	8.8	59
259	Brain microvascular P-glycoprotein and a revised model of multidrug resistance in brain. <i>Cellular and Molecular Neurobiology</i> , 2000 , 20, 165-81	4.6	59
258	Carotid artery injection technique: bounds for bolus mixing by plasma and by brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1985 , 5, 576-83	7.3	59
257	Epidermal growth factor radiopharmaceuticals: ¹¹¹ In chelation, conjugation to a blood-brain barrier delivery vector via a biotin-polyethylene linker, pharmacokinetics, and in vivo imaging of experimental brain tumors. <i>Bioconjugate Chemistry</i> , 1999 , 10, 502-11	6.3	58
256	An electron microscopic immunogold analysis of developmental up-regulation of the blood-brain barrier GLUT1 glucose transporter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1993 , 13, 841-54	7.3	58
255	Nomogram for 2-deoxyglucose lumped constant for rat brain cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1982 , 2, 197-202	7.3	56
254	Comparison of blood-brain barrier transport of glial-derived neurotrophic factor (GDNF) and an IgG-GDNF fusion protein in the rhesus monkey. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 2299-304	4	55
253	Blood-brain barrier transport of ¹²⁵ I-labeled basic fibroblast growth factor. <i>Pharmaceutical Research</i> , 2000 , 17, 63-9	4.5	55
252	Reversal of lysosomal storage in brain of adult MPS-I mice with intravenous Trojan horse-iduronidase fusion protein. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1342-50	5.6	54
251	Non-invasive drug delivery to the human brain using endogenous blood-brain barrier transport systems. <i>Pharmaceutical Science & Technology Today</i> , 1999 , 2, 49-59		54
250	The Trojan Horse Liposome Technology for Nonviral Gene Transfer across the Blood-Brain Barrier. <i>Journal of Drug Delivery</i> , 2011 , 2011, 296151	2.3	53
249	Examination of blood-brain barrier transferrin receptor by confocal fluorescent microscopy of unfixed isolated rat brain capillaries. <i>Journal of Neurochemistry</i> , 1998 , 70, 883-6	6	53
248	Antibody-mediated targeting of siRNA via the human insulin receptor using avidin-biotin technology. <i>Molecular Pharmaceutics</i> , 2009 , 6, 747-51	5.6	52
247	Drug delivery of antisense molecules to the brain for treatment of Alzheimer's disease and cerebral AIDS. <i>Journal of Pharmaceutical Sciences</i> , 1998 , 87, 1308-15	3.9	52

246	Blood-Brain Barrier Penetrating Biologic TNF- α Inhibitor for Alzheimer's Disease. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2340-2349	5.6	51
245	P-glycoprotein and caveolin-1 α in endothelium and astrocytes of primate brain. <i>NeuroReport</i> , 2003 , 14, 2041-6	1.7	51
244	Neuroprotection with a brain-penetrating biologic tumor necrosis factor inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 339, 618-23	4.7	50
243	Ten nucleotide cis element in the 3'-untranslated region of the GLUT1 glucose transporter mRNA increases gene expression via mRNA stabilization. <i>Molecular Brain Research</i> , 1998 , 59, 109-13		50
242	Blood-brain barrier glucose transporter mRNA is increased in experimental diabetes mellitus. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 164, 375-80	3.4	50
241	Influx of thyroid hormones into rat liver in vivo. Differential availability of thyroxine and triiodothyronine bound by plasma proteins. <i>Journal of Clinical Investigation</i> , 1980 , 66, 367-74	15.9	50
240	Blood-brain barrier molecular trojan horse enables imaging of brain uptake of radioiodinated recombinant protein in the rhesus monkey. <i>Bioconjugate Chemistry</i> , 2013 , 24, 1741-9	6.3	49
239	Near complete rescue of experimental Parkinson's disease with intravenous, non-viral GDNF gene therapy. <i>Pharmaceutical Research</i> , 2009 , 26, 1059-63	4.5	49
238	Absence of toxicity of chronic weekly intravenous gene therapy with pegylated immunoliposomes. <i>Pharmaceutical Research</i> , 2003 , 20, 1779-85	4.5	49
237	Pharmacokinetics and brain uptake of biotinylated basic fibroblast growth factor conjugated to a blood-brain barrier drug delivery system. <i>Journal of Drug Targeting</i> , 2002 , 10, 239-45	5.4	49
236	Blood-brain barrier drug targeting enables neuroprotection in brain ischemia following delayed intravenous administration of neurotrophins. <i>Advances in Experimental Medicine and Biology</i> , 2002 , 513, 397-430	3.6	49
235	Antibodies to blood-brain barrier bind selectively to brain capillary endothelial lateral membranes and to a 46K protein. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1986 , 6, 203-11	7.3	48
234	Vascular genomics of the human brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 22, 245-52	7.3	47
233	Influx of testosterone-binding globulin (TeBG) and TeBG-bound sex steroid hormones into rat testis and prostate. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1988 , 67, 98-103	5.6	47
232	Intravenous treatment of experimental Parkinson's disease in the mouse with an IgG-GDNF fusion protein that penetrates the blood-brain barrier. <i>Brain Research</i> , 2010 , 1352, 208-13	3.7	46
231	Recent developments in peptide drug delivery to the brain. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1992 , 71, 3-10		46
230	Subtractive expression cloning reveals high expression of CD46 at the blood-brain barrier. <i>Journal of Neuropathology and Experimental Neurology</i> , 2002 , 61, 597-604	3.1	45
229	A β (1-40) peptide radiopharmaceuticals for brain amyloid imaging: (111)In chelation, conjugation to poly(ethylene glycol)-biotin linkers, and autoradiography with Alzheimer's disease brain sections. <i>Bioconjugate Chemistry</i> , 2000 , 11, 380-6	6.3	45

228	Differential glycosylation of the GLUT1 glucose transporter in brain capillaries and choroid plexus. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994 , 1193, 24-30	3.8	45
227	Imaging endogenous gene expression in brain cancer in vivo with ¹¹¹ In-peptide nucleic acid antisense radiopharmaceuticals and brain drug-targeting technology. <i>Journal of Nuclear Medicine</i> , 2004 , 45, 1766-75	8.9	45
226	Insulin receptor antibody-sulfamidase fusion protein penetrates the primate blood-brain barrier and reduces glycosaminoglycans in Sanfilippo type A cells. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2928-34	5.6	44
225	Pharmacokinetics and brain uptake in the rhesus monkey of a fusion protein of arylsulfatase a and a monoclonal antibody against the human insulin receptor. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1456-65	4.9	44
224	AGT-181: expression in CHO cells and pharmacokinetics, safety, and plasma iduronidase enzyme activity in Rhesus monkeys. <i>Journal of Biotechnology</i> , 2009 , 144, 135-41	3.7	44
223	Brain and Organ Uptake in the Rhesus Monkey in Vivo of Recombinant Iduronidase Compared to an Insulin Receptor Antibody-Iduronidase Fusion Protein. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1271-1277	5.6	43
222	Brain drug targeting and gene technologies. <i>The Japanese Journal of Pharmacology</i> , 2001 , 87, 97-103		43
221	Enhanced cellular uptake and in vivo biodistribution of a monoclonal antibody following cationization. <i>Journal of Pharmaceutical Sciences</i> , 1995 , 84, 943-8	3.9	43
220	Kinetics of regional blood-brain barrier glucose transport and cerebral blood flow determined with the carotid injection technique in conscious rats. <i>Journal of Neurochemistry</i> , 1985 , 44, 911-5	6	43
219	Imaging gene expression in the brain in vivo in a transgenic mouse model of Huntington's disease with an antisense radiopharmaceutical and drug-targeting technology. <i>Journal of Nuclear Medicine</i> , 2002 , 43, 948-56	8.9	43
218	Low blood-brain barrier permeability to azidothymidine (AZT), 3TC, and thymidine in the rat. <i>Brain Research</i> , 1998 , 791, 313-6	3.7	42
217	Gene targeting in vivo with pegylated immunoliposomes. <i>Methods in Enzymology</i> , 2003 , 373, 507-28	1.7	42
216	Enhanced expression of the blood-brain barrier GLUT1 glucose transporter gene by brain-derived factors. <i>Molecular Brain Research</i> , 1994 , 22, 259-67		42
215	Determination of in vivo steady-state unbound drug concentration in the brain interstitial fluid by microdialysis. <i>International Journal of Pharmaceutics</i> , 1992 , 81, 143-152	6.5	42
214	Re-engineering therapeutic antibodies for Alzheimer's disease as blood-brain barrier penetrating bi-specific antibodies. <i>Expert Opinion on Biological Therapy</i> , 2016 , 16, 1455-1468	5.4	41
213	Marked enhancement in gene expression by targeting the human insulin receptor. <i>Journal of Gene Medicine</i> , 2003 , 5, 157-63	3.5	41
212	In vivo cleavability of a disulfide-based chimeric opioid peptide in rat brain. <i>Bioconjugate Chemistry</i> , 1995 , 6, 211-8	6.3	41
211	Lysosomal enzyme replacement of the brain with intravenous non-viral gene transfer. <i>Pharmaceutical Research</i> , 2008 , 25, 400-6	4.5	40

210	Molecular Trojan horses for blood-brain barrier drug delivery. <i>Discovery Medicine</i> , 2006 , 6, 139-43	2.5	40
209	Glycemic control and chronic dosing of rhesus monkeys with a fusion protein of iduronidase and a monoclonal antibody against the human insulin receptor. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 2021-5	4	39
208	Retention of biologic activity of human epidermal growth factor following conjugation to a blood-brain barrier drug delivery vector via an extended poly(ethylene glycol) linker. <i>Bioconjugate Chemistry</i> , 1999 , 10, 32-7	6.3	39
207	Selective delivery of sex steroid hormones to tissues in vivo by albumin and by sex hormone-binding globulin. <i>Annals of the New York Academy of Sciences</i> , 1988 , 538, 173-92	6.5	39
206	Disaggregation of amyloid plaque in brain of Alzheimer's disease transgenic mice with daily subcutaneous administration of a tetravalent bispecific antibody that targets the transferrin receptor and the A β amyloid peptide. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3507-13	5.6	38
205	Pharmacokinetics and safety in rhesus monkeys of a monoclonal antibody-GDNF fusion protein for targeted blood-brain barrier delivery. <i>Pharmaceutical Research</i> , 2009 , 26, 2227-36	4.5	38
204	Drug and gene targeting to the brain via blood-brain barrier receptor-mediated transport systems. <i>International Congress Series</i> , 2005 , 1277, 49-62		38
203	Blood-brain barrier transport of nutrients. <i>Nutrition Reviews</i> , 1986 , 44 Suppl, 15-25	6.4	37
202	Blood-brain barrier genomics. <i>Stroke</i> , 2007 , 38, 686-90	6.7	37
201	Cis-element/cytoplasmic protein interaction within the 3'-untranslated region of the GLUT1 glucose transporter mRNA. <i>Journal of Neurochemistry</i> , 1996 , 66, 449-58	6	37
200	Vector-mediated peptide drug delivery to the brain. <i>Advanced Drug Delivery Reviews</i> , 1995 , 15, 109-146	18.5	37
199	Pharmacokinetics of [3H]biotin bound to different avidin analogues. <i>Journal of Drug Targeting</i> , 1995 , 3, 159-65	5.4	37
198	Brain delivery of biotin bound to a conjugate of neutral avidin and cationized human albumin. <i>Pharmaceutical Research</i> , 1994 , 11, 1257-64	4.5	36
197	Protein-bound corticosteroid in human serum is selectively transported into rat brain and liver in vivo. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1983 , 57, 160-5	5.6	36
196	Delivery of peptides and proteins through the blood-brain barrier. <i>Advanced Drug Delivery Reviews</i> , 1993 , 10, 205-245	18.5	35
195	Monoclonal antibody-glial-derived neurotrophic factor fusion protein penetrates the blood-brain barrier in the mouse. <i>Drug Metabolism and Disposition</i> , 2010 , 38, 566-72	4	34
194	Chronic dosing of mice with a transferrin receptor monoclonal antibody-glial-derived neurotrophic factor fusion protein. <i>Drug Metabolism and Disposition</i> , 2011 , 39, 1149-54	4	34
193	Brain-penetrating IgG-iduronate 2-sulfatase fusion protein for the mouse. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 329-35	4	34

192	Receptor-mediated abeta amyloid antibody targeting to Alzheimer's disease mouse brain. <i>Molecular Pharmaceutics</i> , 2011 , 8, 280-5	5.6	33
191	Immunohistochemical study of cerebral amyloid angiopathy: use of an antiserum to a synthetic 28-amino-acid peptide fragment of the Alzheimer's disease amyloid precursor. <i>Human Pathology</i> , 1988 , 19, 214-22	3.7	33
190	Brain capillary 46,000 dalton protein is cytoplasmic actin and is localized to endothelial plasma membrane. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1989 , 9, 675-80	7.3	32
189	Pharmacokinetics and brain uptake of an IgG-TNF decoy receptor fusion protein following intravenous, intraperitoneal, and subcutaneous administration in mice. <i>Molecular Pharmaceutics</i> , 2013 , 10, 1425-31	5.6	31
188	Genetic engineering of a bifunctional IgG fusion protein with iduronate-2-sulfatase. <i>Bioconjugate Chemistry</i> , 2010 , 21, 151-6	6.3	31
187	IgG-single chain Fv fusion protein therapeutic for Alzheimer's disease: Expression in CHO cells and pharmacokinetics and brain delivery in the rhesus monkey. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 627-35	4.9	31
186	Blood-Brain Barrier Transport, Plasma Pharmacokinetics, and Neuropathology Following Chronic Treatment of the Rhesus Monkey with a Brain Penetrating Humanized Monoclonal Antibody Against the Human Transferrin Receptor. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5207-5216	5.6	31
185	Neurotrophins, neuroprotection and the blood-brain barrier. <i>Current Opinion in Investigational Drugs</i> , 2002 , 3, 1753-7		31
184	Expression in CHO cells and pharmacokinetics and brain uptake in the Rhesus monkey of an IgG-iduronate-2-sulfatase fusion protein. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1954-64	4.9	30
183	Brain-penetrating tumor necrosis factor decoy receptor in the mouse. <i>Drug Metabolism and Disposition</i> , 2011 , 39, 71-6	4	30
182	Blood-brain barrier genomics and cloning of a novel organic anion transporter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 291-301	7.3	30
181	Genetic engineering, expression, and activity of a chimeric monoclonal antibody-avidin fusion protein for receptor-mediated delivery of biotinylated drugs in humans. <i>Bioconjugate Chemistry</i> , 2008 , 19, 731-9	6.3	30
180	Complete protection of antisense oligonucleotides against serum nuclease degradation by an avidin-biotin system. <i>Bioconjugate Chemistry</i> , 1992 , 3, 519-23	6.3	30
179	Measurement of blood-brain barrier GLUT1 glucose transporter and actin mRNA by a quantitative polymerase chain reaction assay. <i>Journal of Neurochemistry</i> , 1994 , 62, 2085-90	6	29
178	Rat blood-brain barrier genomics. II. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 22, 1319-26	7.3	29
177	New approaches to drug delivery through the blood-brain barrier. <i>Trends in Biotechnology</i> , 1994 , 12, 239-45	15.1	29
176	Enzymatic barrier protects brain capillaries from leukotriene C4. <i>Journal of Neurosurgery</i> , 1994 , 81, 745-51		29
175	Treatment of Alzheimer's Disease and Blood-Brain Barrier Drug Delivery. <i>Pharmaceutics</i> , 2020 , 13,	5.2	29

174	Brain penetrating IgG-erythropoietin fusion protein is neuroprotective following intravenous treatment in Parkinson's disease in the mouse. <i>Brain Research</i> , 2011 , 1382, 315-20	3.7	28
173	Re-engineering erythropoietin as an IgG fusion protein that penetrates the blood-brain barrier in the mouse. <i>Molecular Pharmaceutics</i> , 2010 , 7, 2148-55	5.6	28
172	Genetic engineering of IgG-glucuronidase fusion proteins. <i>Journal of Drug Targeting</i> , 2010 , 18, 205-11	5.4	28
171	BloodBrain barrier amino acid transport 1998 , 188-197		28
170	Cationization of a monoclonal antibody to the human immunodeficiency virus REV protein enhances cellular uptake but does not impair antigen binding of the antibody. <i>Immunology Letters</i> , 1994 , 42, 191-5	4.1	28
169	Complete inactivation of target mRNA by biotinylated antisense oligodeoxynucleotide-avidin conjugates. <i>Bioconjugate Chemistry</i> , 1994 , 5, 406-10	6.3	28
168	Two-day starvation does not alter the kinetics of blood-brain barrier transport and phosphorylation of glucose in rat brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1985 , 5, 40-6	7.3	28
167	Transport of thyroid and steroid hormones through the blood-brain barrier of the newborn rabbit: primary role of protein-bound hormone. <i>Endocrinology</i> , 1980 , 107, 1705-10	4.8	28
166	IgG-enzyme fusion protein: pharmacokinetics and anti-drug antibody response in rhesus monkeys. <i>Bioconjugate Chemistry</i> , 2013 , 24, 97-104	6.3	27
165	Preparation of Trojan horse liposomes (THLs) for gene transfer across the blood-brain barrier. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5407	1.2	27
164	Blood-brain barrier disruption following the internal carotid arterial perfusion of alkyl glycerols. <i>Journal of Drug Targeting</i> , 2002 , 10, 463-7	5.4	27
163	Insulin therapy normalizes GLUT1 glucose transporter mRNA but not immunoreactive transporter protein in streptozocin-diabetic rats. <i>Metabolism: Clinical and Experimental</i> , 1993 , 42, 939-44	12.7	27
162	Organ-specific expression of the lacZ gene controlled by the opsin promoter after intravenous gene administration in adult mice. <i>Journal of Gene Medicine</i> , 2004 , 6, 906-12	3.5	26
161	Brain drug delivery and bloodBrain barrier transport. <i>Drug Delivery</i> , 1993 , 1, 83-101	7	26
160	High molecular weight Alzheimer's disease amyloid peptide immunoreactivity in human serum and CSF is an immunoglobulin G. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 145, 241-8	3.4	26
159	Insulin Receptor Antibody- β -N-Acetylglucosaminidase Fusion Protein Penetrates the Primate Blood-Brain Barrier and Reduces Glycosaminoglycans in Sanfilippo Type B Fibroblasts. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1385-92	5.6	25
158	Site-directed mutagenesis of cysteine residues of large neutral amino acid transporter LAT1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1715, 104-10	3.8	25
157	Widespread expression of an exogenous gene in the eye after intravenous administration. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 3075-80		25

156	Neuroprotection in stroke in the mouse with intravenous erythropoietin-Trojan horse fusion protein. <i>Brain Research</i> , 2011 , 1369, 203-7	3.7	24
155	Evidence for translational control elements within the 5'-untranslated region of GLUT1 glucose transporter mRNA. <i>Journal of Neurochemistry</i> , 1996 , 67, 1335-43	6	24
154	Brain drug delivery and blood-brain barrier transport. <i>Drug Delivery</i> , 1996 , 3, 99-115	7	24
153	Development and in vitro characterization of a cationized monoclonal antibody against beta A4 protein: a potential probe for Alzheimer's disease. <i>Bioconjugate Chemistry</i> , 1994 , 5, 119-25	6.3	24
152	Serum bioavailability and tissue metabolism of testosterone and estradiol in rat salivary gland. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1986 , 63, 20-8	5.6	24
151	The effect of membrane permeability and binding by human serum proteins on sex steroid influx into the uterus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1983 , 56, 1282-7	5.6	24
150	Increased blood-brain barrier transport of protein-bound anticonvulsant drugs in the newborn. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1983 , 3, 280-6	7.3	24
149	Inorganic mercury: selective effects on blood-brain barrier transport systems. <i>Journal of Neurochemistry</i> , 1976 , 27, 333-5	6	24
148	Brain Penetrating Bifunctional Erythropoietin-Transferrin Receptor Antibody Fusion Protein for Alzheimer's Disease. <i>Molecular Pharmaceutics</i> , 2018 , 15, 4963-4973	5.6	24
147	Combination stroke therapy in the mouse with blood-brain barrier penetrating IgG-GDNF and IgG-TNF decoy receptor fusion proteins. <i>Brain Research</i> , 2013 , 1507, 91-6	3.7	23
146	Tumor necrosis factor receptor-IgG fusion protein for targeted drug delivery across the human blood-brain barrier. <i>Molecular Pharmaceutics</i> , 2009 , 6, 1536-43	5.6	23
145	Hypoxia induces de-stabilization of the LAT1 large neutral amino acid transporter mRNA in brain capillary endothelial cells. <i>Journal of Neurochemistry</i> , 2003 , 85, 1037-42	6	23
144	Vascular proteomics and subtractive antibody expression cloning. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 75-82	7.6	23
143	Measurement of cerebral glucose utilization using washout after carotid injection in the rat. <i>Journal of Neurochemistry</i> , 1982 , 38, 1413-8	6	23
142	Glucose and amino acid metabolism in an established line of skeletal muscle cells. <i>Journal of Cellular Physiology</i> , 1978 , 96, 309-18	7	23
141	Selective plasma pharmacokinetics and brain uptake in the mouse of enzyme fusion proteins derived from species-specific receptor-targeted antibodies. <i>Journal of Drug Targeting</i> , 2012 , 20, 715-9	5.4	22
140	Mechanisms of neuropeptide interaction with the blood-brain barrier. <i>Annals of the New York Academy of Sciences</i> , 1986 , 481, 231-49	6.5	22
139	Reduction in Brain Heparan Sulfate with Systemic Administration of an IgG Trojan Horse-Sulfamidase Fusion Protein in the Mucopolysaccharidosis Type IIIA Mouse. <i>Molecular Pharmaceutics</i> , 2018 , 15, 602-608	5.6	21

138	Delivery of a peptide radiopharmaceutical to brain with an IgG-avidin fusion protein. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1611-8	6.3	21
137	The blood-brain barrier in Alzheimer's disease. <i>Canadian Journal of Neurological Sciences</i> , 1986 , 13, 446-8		21
136	The Isolated Brain Microvessel: A Versatile Experimental Model of the Blood-Brain Barrier. <i>Frontiers in Physiology</i> , 2020 , 11, 398	4.6	20
135	Plasma Pharmacokinetics of Valanafusp Alpha, a Human Insulin Receptor Antibody-Iduronidase Fusion Protein, in Patients with Mucopolysaccharidosis Type I. <i>BioDrugs</i> , 2018 , 32, 169-176	7.9	20
134	Biologic TNF α inhibitors that cross the human blood-brain barrier. <i>Bioengineered Bugs</i> , 2010 , 1, 231-4		20
133	IgG-paraoxonase-1 fusion protein for targeted drug delivery across the human blood-brain barrier. <i>Molecular Pharmaceutics</i> , 2008 , 5, 1037-43	5.6	20
132	Molecular biology of the blood-brain barrier. <i>Methods in Molecular Medicine</i> , 2003 , 89, 385-99		20
131	Site-directed mutagenesis of rabbit LAT1 at amino acids 219 and 234. <i>Journal of Neurochemistry</i> , 2003 , 84, 1322-31	6	20
130	Measurement of free intracellular and transfer RNA amino acid specific activity and protein synthesis in rat brain in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1990 , 10, 162-9	7.3	20
129	GLUT1 glucose transporter: differential gene transcription and mRNA binding to cytosolic and polysome proteins in brain and peripheral tissues. <i>Molecular Brain Research</i> , 1998 , 58, 170-7		19
128	Chapter 31. Strategies for Delivery of Drugs Through the Blood-Brain Barrier. <i>Annual Reports in Medicinal Chemistry</i> , 1985 , 20, 305-313	1.6	19
127	Decline in exogenous gene expression in primate brain following intravenous administration is due to plasmid degradation. <i>Pharmaceutical Research</i> , 2006 , 23, 1586-90	4.5	18
126	The Ro52/SS-A autoantigen has elevated expression at the brain microvasculature. <i>NeuroReport</i> , 2003 , 14, 1861-5	1.7	18
125	Enhanced GLUT1 glucose transporter and cytoskeleton gene expression in cultured bovine brain capillary endothelial cells after treatment with phorbol esters and serum. <i>Molecular Brain Research</i> , 1992 , 15, 221-6		18
124	Blood-brain barrier transport of glucose, free fatty acids, and ketone bodies. <i>Advances in Experimental Medicine and Biology</i> , 1991 , 291, 43-53	3.6	18
123	Neuroprotection in experimental stroke in the rat with an IgG-erythropoietin fusion protein. <i>Brain Research</i> , 2010 , 1360, 193-7	3.7	17
122	Drug delivery of antisense oligonucleotides or peptides to tissues in vivo using an avidinBiotin system. <i>Drug Delivery</i> , 1993 , 1, 43-50	7	17
121	Does the brain's gatekeeper falter in aging?. <i>Neurobiology of Aging</i> , 1988 , 9, 44-6	5.6	17

120	Critical illness and low testosterone: effects of human serum on testosterone transport into rat brain and liver. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1983 , 56, 710-4	5.6	17
119	CHO cell expression, long-term stability, and primate pharmacokinetics and brain uptake of an IgG-paroxonase-1 fusion protein. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 186-96	4.9	16
118	Comparison of cDNA and genomic forms of tyrosine hydroxylase gene therapy of the brain with Trojan horse liposomes. <i>Journal of Gene Medicine</i> , 2007 , 9, 605-12	3.5	16
117	Differential expression of 53- and 45-kDa brain capillary-specific proteins by brain capillary endothelium and choroid plexus in vivo and by brain capillary endothelium in tissue culture. <i>Molecular and Cellular Neurosciences</i> , 1990 , 1, 20-8	4.8	16
116	Regional blood-brain barrier transport of the steroid hormones. <i>Journal of Neurochemistry</i> , 1979 , 33, 579-81	6	16
115	Selective Lutheran glycoprotein gene expression at the blood-brain barrier in normal brain and in human brain tumors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000 , 20, 1096-102	7.3	15
114	Drug targeting to the brain using avidin-biotin technology in the mouse; (blood-brain barrier, monoclonal antibody, transferrin receptor, Alzheimer's disease). <i>Journal of Drug Targeting</i> , 2000 , 8, 413-24	5.4	15
113	Plasma Pharmacokinetics of High-Affinity Transferrin Receptor Antibody-Erythropoietin Fusion Protein is a Function of Effector Attenuation in Mice. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3534-3543	5.6	14
112	Developmental changes in brain and serum binding of testosterone and in brain capillary uptake of testosterone-binding serum proteins in the rabbit. <i>Developmental Brain Research</i> , 1988 , 466, 245-53		14
111	Strategies for Drug Delivery through the Blood-Brain Barrier 1985 , 83-96		14
110	Very High Plasma Concentrations of a Monoclonal Antibody against the Human Insulin Receptor Are Produced by Subcutaneous Injection in the Rhesus Monkey. <i>Molecular Pharmaceutics</i> , 2016 , 13, 3241-6	5.6	13
109	Site-directed deletion of a 10-nucleotide domain of the 3'-untranslated region of the GLUT1 glucose transporter mRNA eliminates cytosolic protein binding in human brain tumors and induction of reporter gene expression. <i>Journal of Neurochemistry</i> , 1997 , 68, 2587-92	6	13
108	Strategies for drug delivery through the blood-brain barrier. <i>Neurobiology of Aging</i> , 1989 , 10, 636-7; discussion 648-50	5.6	13
107	Kinetics of lactate transport into rat liver in vivo. <i>Metabolism: Clinical and Experimental</i> , 1990 , 39, 374-7	12.7	13
106	Effects of progesterone-binding globulin versus a progesterone antiserum on steroid hormone transport through the blood-brain barrier. <i>Endocrinology</i> , 1980 , 106, 1137-41	4.8	13
105	Rat Blood???Brain Barrier Genomics. II. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 1319-1326	7.3	13
104	Human LAT1 single nucleotide polymorphism N230K does not alter phenylalanine transport. <i>Molecular Genetics and Metabolism</i> , 2004 , 83, 306-11	3.7	12
103	Ultrastructural localization of blood-brain barrier-specific antibodies using immunogold-silver enhancement techniques. <i>Journal of Neuroscience Methods</i> , 1991 , 37, 103-10	3	12

102	Decreases in brain protein synthesis elicited by moderate increases in plasma phenylalanine. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 168, 1177-83	3-4	12
101	Imaging gene expression in regional brain ischemia in vivo with a targeted [¹¹¹ In]-antisense radiopharmaceutical. <i>Molecular Imaging</i> , 2004 , 3, 356-63	3-7	12
100	Blood-brain barrier genomics and the use of endogenous transporters to cause drug penetration into the brain. <i>Current Opinion in Drug Discovery & Development</i> , 2003 , 6, 683-91		12
99	Imaging amyloid plaque in Alzheimer's disease brain with a biotinylated A β peptide radiopharmaceutical conjugated to an IgG-avidin fusion protein. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1318-27	6-3	11
98	Isolated brain capillaries: an in vitro model of blood-brain barrier research 1998 , 49-61		11
97	Pharmacokinetic differences between ¹¹¹ In- and ¹²⁵ I-labeled cationized monoclonal antibody against β -amyloid in mouse and dog. <i>Drug Delivery</i> , 1995 , 2, 128-135	7	11
96	Non-invasive gene targeting to the fetal brain after intravenous administration and transplacental transfer of plasmid DNA using PEGylated immunoliposomes. <i>Journal of Drug Targeting</i> , 2016 , 24, 58-67	5-4	10
95	Developmental regulation of the rabbit blood-brain barrier LAT1 large neutral amino acid transporter mRNA and protein. <i>Pediatric Research</i> , 2004 , 55, 557-60	3-2	10
94	Reduction of testosterone availability to 5 alpha-reductase by human sex hormone-binding globulin in the rat ventral prostate gland in vivo. <i>Prostate</i> , 1990 , 17, 281-91	4-2	10
93	Blood-brain barrier methodology and biology 1998 , 1-8		10
92	Role of intracellular calcium in regulation of brain endothelial permeability 1998 , 345-353		9
91	Targeting of an anti-CR3 (CD11b/CD18) monoclonal antibody to spleen but not brain, in vivo in mice. <i>Journal of Drug Targeting</i> , 1995 , 3, 9-14	5-4	9
90	New directions in blood-brain barrier research. Studies with isolated human brain capillaries. <i>Annals of the New York Academy of Sciences</i> , 1988 , 529, 50-60	6-5	9
89	Biology of the blood-brain glucose transporter 1998 , 165-174		9
88	Plasmid DNA gene therapy of the Niemann-Pick C1 mouse with transferrin receptor-targeted Trojan horse liposomes. <i>Scientific Reports</i> , 2020 , 10, 13334	4-9	9
87	Hematologic safety of chronic brain-penetrating erythropoietin dosing in APP/PS1 mice. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2019 , 5, 627-636	6	9
86	Bi-functional IgG-lysosomal enzyme fusion proteins for brain drug delivery. <i>Scientific Reports</i> , 2019 , 9, 18632	4-9	9
85	Treatment of large solid tumors in mice with daunomycin-loaded sterically stabilized liposomes. <i>Drug Delivery</i> , 1998 , 5, 207-12	7	8

84	Brain microvessel endothelial cell culture systems 1998 , 86-93		8
83	Amplification of gene expression using both 5'- and 3'-untranslated regions of GLUT1 glucose transporter mRNA. <i>Molecular Brain Research</i> , 1999 , 63, 371-4		8
82	Brain microvasculature in multiple sclerosis 1998 , 386-400		8
81	Mathematical Models of Blood-Brain Barrier Transport of Monoclonal Antibodies Targeting the Transferrin Receptor and the Insulin Receptor. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	8
80	Physiologic-based strategies for protein drug delivery to the brain. <i>Journal of Controlled Release</i> , 1996 , 39, 281-286	11.7	7
79	Red cell phenylalanine is not available for transport through the blood-brain barrier. <i>Neurochemical Research</i> , 1990 , 15, 769-72	4.6	7
78	Brain Delivery of Nanomedicines: Trojan Horse Liposomes for Plasmid DNA Gene Therapy of the Brain.. <i>Frontiers in Medical Technology</i> , 2020 , 2, 602236	1.9	7
77	BloodBrain barrier transport of drugs 1998 , 238-248		7
76	The blood-CSF barrier and the choroid plexus 1998 , 251-258		7
75	The 5'-untranslated region of GLUT1 glucose transporter mRNA causes differential regulation of the translational rate in plant and animal systems. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 118, 309-12	2.3	6
74	The blood-brain barrier: Bottleneck in brain drug development 2005 , 2, 3		6
73	BloodBrain barrier permeability measured with histochemistry 1998 , 113-121		6
72	Circumventricular organs of the brain 1998 , 270-276		6
71	Lyoprotectant Optimization for the Freeze-Drying of Receptor-Targeted Trojan Horse Liposomes for Plasmid DNA Delivery. <i>Molecular Pharmaceutics</i> , 2020 , 17, 2165-2174	5.6	5
70	BloodBrain barrier ion transport 1998 , 207-213		5
69	Transport in the developing brain 1998 , 277-290		5
68	Intracerebral microdialysis 1998 , 94-112		5
67	Molecular dissection of tight junctions: occludin and ZO-1 1998 , 322-329		5

66	The pathophysiology of blood-brain barrier dysfunction due to traumatic brain injury 1998 , 441-453	5
65	Acute and Chronic Dosing of a High-Affinity Rat/Mouse Chimeric Transferrin Receptor Antibody in Mice. <i>Pharmaceutics</i> , 2020 , 12,	6.4 5
64	Phenylalanine Transport at the Human Blood-Brain Barrier 1988 , 55-62	5
63	Preclinical studies of a brain penetrating IgG Trojan horse-arylsulfatase fusion protein in the metachromatic leukodystrophy mouse. <i>Molecular Genetics and Metabolism</i> , 2019 , 126, S77	3-7 4
62	Eliminating Fc N-Linked Glycosylation and Its Impact on Dosing Consideration for a Transferrin Receptor Antibody-Erythropoietin Fusion Protein in Mice. <i>Molecular Pharmaceutics</i> , 2020 , 17, 2831-2839 ^{5,6}	4
61	Tissue culture of brain endothelial cells – Induction of blood-brain barrier properties by brain factors 1998 , 79-85	4
60	Isolation and behavior of plasma membrane vesicles made from cerebral capillary endothelial cells 1998 , 62-70	4
59	Molecular biology of brain capillaries 1998 , 151-162	4
58	P-glycoprotein, a guardian of the brain 1998 , 198-206	4
57	Arachnoid membrane, subarachnoid CSF and pia-glialia 1998 , 259-269	4
56	Cerebral amyloid angiopathy 1998 , 379-385	4
55	Targeted Delivery of Hormones to Tissues by Plasma Proteins 1998 , 335-382	3
54	The carotid artery single injection technique 1998 , 11-23	3
53	Development of Brain Efflux Index (BEI) method and its application to the blood-brain barrier efflux transport study 1998 , 24-31	3
52	HIV infection and the blood-brain barrier 1998 , 419-426	3
51	Steroid Hormone Transport through Blood-Brain Barrier: Methods and Concepts. <i>Methods in Neurosciences</i> , 1994 , 22, 3-22	3
50	Measuring cerebral capillary permeability-surface area products by quantitative autoradiography 1998 , 122-132	3
49	The blood-brain barrier in brain tumours 1998 , 434-440	3

48	Formulation of therapeutic synthetic polymers for drug and gene delivery. <i>Drug Discovery Today</i> , 2002 , 7, 1120-1	8.8	2
47	Neuroprotection in stroke: is it time to consider large-molecule drugs?. <i>Drug Discovery Today</i> , 2001 , 6, 751-753	8.8	2
46	BloodBrain barrier and monoamines, revisited 1998 , 362-376		2
45	Localization of Blood-Brain Barrier-Specific Antibodies with Immunogold-Silver Enhancement. <i>Journal of Histotechnology</i> , 1993 , 16, 249-257	1.3	2
44	Predominant low-molecular-weight proteins in isolated brain capillaries are histones. <i>Journal of Neurochemistry</i> , 1989 , 53, 1014-8	6	2
43	On "lumped constant" nomograms. <i>Journal of Neurochemistry</i> , 1982 , 39, 1774-6	6	2
42	Brain Capillary Endothelial Transport of Insulin 1992 , 347-362		2
41	Blood-Brain Barrier Transport Mechanisms 1997 , 21-25		2
40	Patch clamp techniques with isolated brain microvessel membranes 1998 , 71-78		2
39	Measurement of bloodBrain barrier in humans using indicator diffusion 1998 , 133-139		2
38	Ion channels in endothelial cells 1998 , 214-220		2
37	Regulation of brain endothelial cell tight junction permeability 1998 , 293-300		2
36	Microvascular pathology in cerebrovascular ischemia 1998 , 409-418		2
35	Blood-brain barrier delivery for lysosomal storage disorders with IgG-lysosomal enzyme fusion proteins.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 184, 114234	18.5	2
34	Imaging Gene Expression in the Brain with Peptide Nucleic Acid (PNA) Antisense Radiopharmaceuticals and Drug Targeting Technology 2006 , 38-60		1
33	Imaging gene expression in the brain with peptide nucleic acid (PNA) antisense radiopharmaceuticals and drug targeting technology. <i>International Journal of Peptide Research and Therapeutics</i> , 2003 , 10, 169-190	2.1	1
32	Drug transport across the bloodBrain barrier: In Vitro and In Vivo techniques. <i>Drug Delivery</i> , 1998 , 5, 153-153	7	1
31	Cytokines and the blood-brain barrier 1998 , 354-361		1

30	In situ brain perfusion 1998 , 32-40		1
29	Triiodothyronine bound to red blood cells is not available for transport through the blood-brain barrier. <i>Neurochemical Research</i> , 1989 , 14, 657-9	4.6	1
28	Molecular Regulation of Blood-Brain Barrier GLUT1 Glucose Transporter 1995 , 81-88		1
27	Blood-Brain Barrier Transport for RNAi 2009 , 255-273		1
26	Receptor-mediated peptide transport through the blood-brain barrier 1988 , 593-595		1
25	Measurement of bloodBrain permeability in humans with positron emission tomography 1998 , 140-146		1
24	Glucose transporters in mammalian brain development 1998 , 175-187		1
23	Chemotherapy and chemosensitization 1998 , 301-307		1
22	Hemostasis and the bloodBrain barrier 1998 , 401-408		1
21	P3-057: THERAPEUTIC EFFECTS OF A BRAIN PENETRATING BISPECIFIC ERYTHROPOIETIN-TRANSFERRIN RECEPTOR ANTIBODY FUSION PROTEIN IN THE APP/PS1 MOUSE MODEL OF ALZHEIMER'S DISEASE 2018 , 14, P1086-P1087		1
20	Kinetics of Blood-Brain Barrier Transport of Monoclonal Antibodies Targeting the Insulin Receptor and the Transferrin Receptor.. <i>Pharmaceuticals</i> , 2021 , 15,	5.2	1
19	Interactions of lipoproteins with the bloodBrain barrier 1998 , 221-226		0
18	Nitric oxide and endothelin at the bloodBrain barrier 1998 , 338-344		0
17	S1-01-01: Blood-brain barrier from physiology to therapeutics 2015 , 11, P114-P114		
16	[O40604]: PROTECTIVE EFFECTS OF A BRAIN-PENETRATING BIOLOGIC TNF-ALPHA INHIBITOR IN A MOUSE MODEL OF ALZHEIMER'S DISEASE 2017 , 13, P1242-P1242		
15	Transport of Protein and Antibody Therapeutics Across the BloodBrain Barrier 2015 , 146-166		
14	Imaging Gene Expression in Regional Brain Ischemia in Vivo with a Targeted [111In]-Antisense Radiopharmaceutical. <i>Molecular Imaging</i> , 2004 , 3, 153535002004041	3.7	
13	The effects of membrane permeability and binding by human serum proteins on steroid influx into the rabbit uterus. <i>American Journal of Obstetrics and Gynecology</i> , 1987 , 157, 1543-9	6.4	

- 12 Imaging gene expression in the brain with peptide nucleic acid (PNA) antisense radiopharmaceuticals and drug targeting technology. *International Journal of Peptide Research and Therapeutics*, **2005**, 10, 169-190 2.1
- 11 Imaging gene expression in the brain with peptide nucleic acid (PNA) antisense radiopharmaceuticals and drug targeting technology. *International Journal of Peptide Research and Therapeutics*, **2003**, 10, 169-190
- 10 Tyrosine hydroxylase replacement in experimental Parkinson's disease with transvascular gene therapy. *Neurotherapeutics*, **2005**, 2, 129-138 6.4
- 9 Lipid composition of brain microvessels **1998**, 308-313
- 8 Magnetic resonance imaging of blood-brain barrier permeability **1998**, 147-150
- 7 Intravenous injection/pharmacokinetics **1998**, 41-48
- 6 Brain microvessel antigens **1998**, 314-321
- 5 Fatty acid and lipid intermediate transport **1998**, 227-237
- 4 Phosphatidylinositol pathways **1998**, 330-337
- 3 Blood-Brain Barrier Targeting of Therapeutic Lysosomal Enzymes. *AAPS Advances in the Pharmaceutical Sciences Series*, **2015**, 41-62 0.5
- 2 Vector-mediated peptide drug delivery to the brain.. *Advanced Drug Delivery Reviews*, **1995**, 15, 109-146 18.5
- 1 Transport of small molecules through the blood-brain barrier: biology and methodology.. *Advanced Drug Delivery Reviews*, **1995**, 15, 5-36 18.5