Donald W Miller

List of Publications by Year
in descending order

56 papers	2,353 citations	257450 24 h-index	243625 44 g-index
59 all docs	59 docs citations	59 times ranked	3565 citing authors

#	Article	IF	Citations
1	Injectable hydrogel-based drug delivery systems for local cancer therapy. Drug Discovery Today, 2016, 21, 1835-1849.	6.4	374
2	PluronicÂ® block copolymers as modulators of drug efflux transporter activity in the bloodâ€“brain barrier. Advanced Drug Delivery Reviews, 2003, 55, 151-164.	13.7	296
3	Plasma Membrane Localization of Multidrug Resistance-Associated Protein Homologs in Brain Capillary Endothelial Cells. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 449-455.	2.5	168
4	Doxorubicin-loaded iron oxide nanoparticles for glioblastoma therapy: a combinational approach for enhanced delivery of nanoparticles. Scientific Reports, 2020, 10, 11292.	3.3	160
5	Ethanol-Induced Activation of Myosin Light Chain Kinase Leads to Dysfunction of Tight Junctions and Blood-Brain Barrier Compromise. Alcoholism: Clinical and Experimental Research, 2005, 29, 999-1009.	2.4	146
6	Use of rhodamine 123 to examine the functional activity of P-glycoprotein in primary cultured brain microvessel endothelial cell monolayers. Life Sciences, 1996, 59, 1521-1531.	4.3	121
7	Characterization of cellular uptake and toxicity of aminosilane-coated iron oxide nanoparticles with different charges in central nervous system-relevant cell culture models. International Journal of Nanomedicine, 2013, 8, 961.	6.7	80
8	Modulation of Wnt/Î²-catenin signaling promotes blood-brain barrier phenotype in cultured brain endothelial cells. Scientific Reports, 2019, 9, 19718.	3.3	69
9	A Versatile Method for the Reductive, Oneâ€Pot Synthesis of Bare, Hydrophilic and Hydrophobic Magnetite Nanoparticles. Advanced Functional Materials, 2011, 21, 1457-1464.	14.9	55
10	Rapid and Reversible Enhancement of Bloodâ€“Brain Barrier Permeability Using Lysophosphatidic Acid. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1944-1954.	4.3	54
11	Magnetic field enhanced convective diffusion of iron oxide nanoparticles in an osmotically disrupted cell culture model of the blood–brain barrier. International Journal of Nanomedicine, 2014, 9, 3013.	6.7	53
12	Liquid Crystal Elastomer Microspheres as Three-Dimensional Cell Scaffolds Supporting the Attachment and Proliferation of Myoblasts. ACS Applied Materials & Interfaces, 2015, 7, 14528-14535.	8.0	53
13	Development of a direct contact astrocyte-human cerebral microvessel endothelial cells bloodâ€“brain barrier coculture model. Journal of Pharmacy and Pharmacology, 2017, 69, 1684-1696.	2.4	48
14	Examination of bloodâ€“brain barrier (BBB) integrity in a mouse brain tumor model. Journal of Neuro-Oncology, 2013, 111, 133-143.	2.9	46
15	Modulation of Bloodâ€“Brain Barrier Permeability in Mice Using Synthetic E-Cadherin Peptide. Molecular Pharmaceutics, 2014, 11, 974-981.	4.6	42
16	One-Pot Synthesis of Iron Oxide Nanoparticles with Functional Silane Shells: A Versatile General Precursor for Conjugations and Biomedical Applications. Langmuir, 2013, 29, 10850-10858.	3.5	39
17	Modulation of Intercellular Junctions by Cyclic-ADT Peptides as a Method to Reversibly Increase Bloodâ€“Brain Barrier Permeability. Journal of Pharmaceutical Sciences, 2015, 104, 1065-1075.	3.3	39
18	Generation of Bioactive Oxylipins from Exogenously Added Arachidonic, Eicosapentaenoic and Docosahexaenoic Acid in Primary Human Brain Microvessel Endothelial Cells. Lipids, 2016, 51, 591-599.	1.7	39

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19	Salinomycin-loaded Nanofibers for Glioblastoma Therapy. Scientific Reports, 2018, 8, 9377.	3.3	39
20	Poly(ADP-ribose) polymerase-1 regulates microglia mediated decrease of endothelial tight junction integrity. Neurochemistry International, 2017, 108, 266-271.	3.8	38
21	Transporter-Based Delivery of Anticancer Drugs to the Brain: Improving Brain Penetration by Minimizing Drug Efflux at the Blood-Brain Barrier. Current Pharmaceutical Design, 2014, 20, 1499-1509.	1.9	36
22	Biodistribution of negatively charged iron oxide nanoparticles (IONPs) in mice and enhanced brain delivery using lysophosphatidic acid (LPA). Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1775-1784.	3.3	31
23	Comparison of Linear and Cyclic His-Ala-Val Peptides in Modulating the Blood-Brain Barrier Permeability: Impact on Delivery of Molecules to the Brain. Journal of Pharmaceutical Sciences, 2016, 105, 797-807.	3.3	30
24	Improving Brain Delivery of Biomolecules via BBB Modulation in Mouse and Rat: Detection using MRI, NIRF, and Mass Spectrometry. Nanotheranostics, 2017, 1, 217-231.	5.2	26
25	Salinomycin-Loaded Iron Oxide Nanoparticles for Glioblastoma Therapy. Nanomaterials, 2020, 10, 477.	4.1	25
26	Exogenous arachidonic acid mediates permeability of human brain microvessel endothelial cells through prostaglandin E₂ activation of <scp>EP</scp>₃ and <scp>EP</scp>₄ receptors. Journal of Neurochemistry, 2015, 135, 867-879.	3.9	23
27	Salinomycin-loaded injectable thermosensitive hydrogels for glioblastoma therapy. International Journal of Pharmaceutics, 2021, 598, 120316.	5.2	21
28	Assessment of P-glycoprotein Activity in the Blood-Brain Barrier (BBB) Using Near Infrared Fluorescence (NIRF) Imaging Techniques. Pharmaceutical Research, 2011, 28, 2505-2515.	3.5	19
29	Reduction in cardiolipin decreases mitochondrial spare respiratory capacity and increases glucose transport into and across human brain cerebral microvascular endothelial cells. Journal of Neurochemistry, 2016, 139, 68-80.	3.9	19
30	Evaluation of Creatine Transport Using Caco€2 Monolayers as an In Vitro Model for Intestinal Absorption. Journal of Pharmaceutical Sciences, 2001, 90, 1593-1598.	3.3	18
31	Physicochemical Characterization of CreatineN-Methylguanidinium Salts. Journal of Dietary Supplements, 2010, 7, 240-252.	2.6	17
32	Evaluation of drug efflux transporter liabilities of darifenacin in cell culture models of the blood€“brain and blood€“ocular barriers. Neurourology and Urodynamics, 2011, 30, 1633-1638.	1.5	15
33	Validation of Cadherin HAV6 Peptide in the Transient Modulation of the Blood-Brain Barrier for the Treatment of Brain Tumors. Pharmaceutics, 2019, 11, 481.	4.5	13
34	A general synthesis of metal (Mn, Fe, Co, Ni, Cu, Zn) oxide and silica nanoparticles based on a low temperature reduction/hydrolysis pathway. RSC Advances, 2013, 3, 23722.	3.6	12
35	Absolute Oral Bioavailability of Creatine Monohydrate in Rats: Debunking a Myth. Pharmaceutics, 2018, 10, 31.	4.5	12
36	Impact of Wnt/Î²â€catenin signaling on ethanolâ€induced changes in brain endothelial cell permeability. Journal of Neurochemistry, 2021, 157, 1118-1137.	3.9	12

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37	pH-Dependent Stability of Creatine Ethyl Ester: Relevance to Oral Absorption. Journal of Dietary Supplements, 2013, 10, 241-251.	2.6	11
38	Simple, Hackable, Size-Selective, Amine-Functionalized Fe-Oxide Nanoparticles for Biomedical Applications. Langmuir, 2018, 34, 2748-2757.	3.5	11
39	CEBPÎ² regulation of endogenous IGF-1 in adult sensory neurons can be mobilized to overcome diabetes-induced deficits in bioenergetics and axonal outgrowth. Cellular and Molecular Life Sciences, 2022, 79, 193.	5.4	10
40	Evaluation of percutaneous permeation of repellent DEET and sunscreen oxybenzone from emulsion-based formulations in artificial membrane and human skin. Acta Pharmaceutica Sinica B, 2014, 4, 43-51.	12.0	9
41	Differential internalization of brick shaped iron oxide nanoparticles by endothelial cells. Journal of Materials Chemistry B, 2016, 4, 5913-5920.	5.8	8
42	Synthesis of Distinct Iron Oxide Nanomaterial Shapes Using Lyotropic Liquid Crystal Solvents. Nanomaterials, 2017, 7, 211.	4.1	6
43	Use of amantadine in the evaluation of response to chemotherapy in lung cancer: a pilot study. Future Science OA, 2021, 7, FSO679.	1.9	3
44	MBRS-50. PEROXIREDOXIN1 IS A THERAPEUTIC TARGET IN GROUP-3 MEDULLOBLASTOMA. Neuro-Oncology, 2018, 20, i139-i139.	1.2	1
45	Pharmacokinetics of a onceâ€daily tacrolimus formulation in first nations and caucasian liver transplant recipients. Transplant International, 2021, 34, 2266-2273.	1.6	1
46	Magnetic Nanoparticles: A Versatile Method for the Reductive, One-Pot Synthesis of Bare, Hydrophilic and Hydrophobic Magnetite Nanoparticles (Adv. Funct. Mater. 8/2011). Advanced Functional Materials, 2011, 21, 1456-1456.	14.9	0
47	Evaluation and Optimization of Capillary Zone Electrophoresis for Common Drugs of Forensic Interest in Aqueous Matrix. Journal of the Canadian Society of Forensic Science, 2012, 45, 167-175.	0.9	0
48	Oral Bioavailability of Creatine Supplements. , 2019, , 595-604.		0
49	Brain Metastasizing Breast Cancer Cell Secretome is Modulated by Endoplasmic Reticulum Stress. FASEB Journal, 2021, 35, .	0.5	0
50	Protective effect of sphingosine 1â€phosphate (S1P) in the cerebral microvasculature. FASEB Journal, 2008, 22, 913.2.	0.5	0
51	Arachidonic acid increases permeability of HBMEC monolayers via increased production of prostaglandin E2. FASEB Journal, 2013, 27, 814.1.	0.5	0
52	Cadherin peptideâ€induced enhancement of blood brain barrier (BBB) permeability. FASEB Journal, 2013, 27, 668.3.	0.5	0
53	Knockdown of Cardiolipin Synthase in Human Brain Microvessel Endothelial Cells Modulates Blood Brain Barrier Transport Properties. FASEB Journal, 2015, 29, 715.27.	0.5	0
54	Exogenous Arachidonic Acid Mediates Permeability of Human Brain Microvessel Endothelial Cells through Prostaglandin E 2 Activation of EP 3 and EP 4 Receptors. FASEB Journal, 2015, 29, 715.32.	0.5	0

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55	Effects of various dietary supplements on inflammatory processes in primary canine chondrocytes as a model of osteoarthritis. Canadian Journal of Veterinary Research, 2019, 83, 206-217.	0.2	0
56	Magnetic Nanoparticles for Imaging, Diagnosis, and Drug-Delivery Applications. , 2022, , 98-129.		0