

Mohammad F Kiani

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,989
citations

136950

32
h-index

168389

53
g-index

78
all docs

78
docs citations

78
times ranked

4114
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification, Treatment Strategy, and Associated Drug Resistance in Breast Cancer. <i>Clinical Breast Cancer</i> , 2016, 16, 335-343.	2.4	193
2	Infarct scar as living tissue. <i>Basic Research in Cardiology</i> , 2002, 97, 343-347.	5.9	183
3	Radiation-induced permeability and leukocyte adhesion in the rat blood-brain barrier: modulation with anti-ICAM-1 antibodies. <i>Brain Research</i> , 2003, 969, 59-69.	2.2	163
4	Leukocyte-inspired biodegradable particles that selectively and avidly adhere to inflamed endothelium in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15895-15900.	7.1	161
5	A Novel Dynamic Neonatal Blood-Brain Barrier on a Chip. <i>PLoS ONE</i> , 2015, 10, e0142725.	2.5	149
6	Targeting VEGF-encapsulated immunoliposomes to MI heart improves vascularity and cardiac function. <i>FASEB Journal</i> , 2009, 23, 3361-3367.	0.5	129
7	Extravasation of poly(amidoamine) (PAMAM) dendrimers across microvascular network endothelium. <i>Pharmaceutical Research</i> , 2001, 18, 23-28.	3.5	92
8	Early Effects of Ionizing Radiation on the Microvascular Networks in Normal Tissue. <i>Radiation Research</i> , 1999, 151, 270.	1.5	84
9	A physiologically realistic in vitro model of microvascular networks. <i>Biomedical Microdevices</i> , 2009, 11, 1051-1057.	2.8	80
10	Microfluidic devices for modeling cell-cell and particle-cell interactions in the microvasculature. <i>Microvascular Research</i> , 2011, 82, 210-220.	2.5	79
11	A Biomimetic Microfluidic Tumor Microenvironment Platform Mimicking the EPR Effect for Rapid Screening of Drug Delivery Systems. <i>Scientific Reports</i> , 2017, 7, 9359.	3.3	79
12	A tumor vasculature targeted liposome delivery system for combretastatin A4: Design, characterization, and in vitro evaluation. <i>AAPS PharmSciTech</i> , 2006, 7, E7-E16.	3.3	69
13	Synthetic microvascular networks for quantitative analysis of particle adhesion. <i>Biomedical Microdevices</i> , 2008, 10, 585-595.	2.8	64
14	Late Effects of Ionizing Radiation on the Microvascular Networks in Normal Tissue. <i>Radiation Research</i> , 2000, 154, 531-536.	1.5	63
15	Aiming for the heart: targeted delivery of drugs to diseased cardiac tissue. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 459-470.	5.0	60
16	An intravital microscopy study of radiation-induced changes in permeability and leukocyte-endothelial cell interactions in the microvessels of the rat pia mater and cremaster muscle. <i>Brain Research Protocols</i> , 2004, 13, 1-10.	1.6	56
17	Protein kinase C-delta inhibition protects blood-brain barrier from sepsis-induced vascular damage. <i>Journal of Neuroinflammation</i> , 2018, 15, 309.	7.2	56
18	Mechanisms of radiation-induced endothelium damage: Emerging models and technologies. <i>Radiotherapy and Oncology</i> , 2021, 158, 21-32.	0.6	56

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19	Targeted delivery of antibody conjugated liposomal drug carriers to rat myocardial infarction. <i>Biotechnology and Bioengineering</i> , 2007, 96, 795-802.	3.3	54
20	Expression and Functional Significance of Adhesion Molecules on Cultured Endothelial Cells in Response to Ionizing Radiation. <i>Microcirculation</i> , 2001, 8, 355-364.	1.8	53
21	Targeting of the Antivascular Drug Combretastatin to Irradiated Tumors Results in Tumor Growth Delay. <i>Pharmaceutical Research</i> , 2005, 22, 1117-1120.	3.5	51
22	Targeting microparticles to select tissue via radiation-induced upregulation of endothelial cell adhesion molecules. <i>Pharmaceutical Research</i> , 2002, 19, 1317-1322.	3.5	50
23	Bioinspired Microfluidic Assay for In Vitro Modeling of Leukocyte-Endothelium Interactions. <i>Analytical Chemistry</i> , 2014, 86, 8344-8351.	6.5	48
24	Targeted multidrug delivery system to overcome chemoresistance in breast cancer. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 671-681.	6.7	46
25	Aldosteronism in Heart Failure: A Proinflammatory / Fibrogenic Cardiac Phenotype. Search for Biomarkers and Potential Drug Targets. <i>Current Drug Targets</i> , 2003, 4, 505-516.	2.1	41
26	Adhesive interaction of functionalized particles and endothelium in idealized microvascular networks. <i>Microvascular Research</i> , 2013, 89, 107-114.	2.5	36
27	Radiation-Guided Targeting of Combretastatin Encapsulated Immunoliposomes to Mammary Tumors. <i>Pharmaceutical Research</i> , 2009, 26, 1093-1100.	3.5	35
28	A semi-empirical model of apparent blood viscosity as a function of vessel diameter and discharge hematocrit. <i>Biorheology</i> , 1991, 28, 65-73.	0.4	34
29	Computer simulation of growth of anastomosing microvascular networks. <i>Journal of Theoretical Biology</i> , 1991, 150, 547-560.	1.7	34
30	Adhesion patterns in the microvasculature are dependent on bifurcation angle. <i>Microvascular Research</i> , 2015, 99, 19-25.	2.5	34
31	The N-terminal peptide of PSGL-1 can mediate adhesion to trauma-activated endothelium via P-selectin in vivo. <i>Blood</i> , 2002, 100, 531-538.	1.4	33
32	The Role of Tyrosine Phosphorylation of Protein Kinase C Delta in Infection and Inflammation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1498.	4.1	33
33	Towards a targeted multi-drug delivery approach to improve therapeutic efficacy in breast cancer. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 1159-1173.	5.0	32
34	Preferential adhesion of leukocytes near bifurcations is endothelium independent. <i>Microvascular Research</i> , 2010, 80, 384-388.	2.5	32
35	Bifurcations: Focal Points of Particle Adhesion in Microvascular Networks. <i>Microcirculation</i> , 2011, 18, 380-389.	1.8	32
36	A novel microfluidic assay reveals a key role for protein kinase C δ in regulating human neutrophil-endothelium interaction. <i>Journal of Leukocyte Biology</i> , 2016, 100, 1027-1035.	3.3	32

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37	Targeted delivery of vascular endothelial growth factor improves stem cell therapy in a rat myocardial infarction model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1711-1718.	3.3	30
38	Fourier transform infrared spectroscopy to quantify collagen and elastin in an in vitro model of extracellular matrix degradation in aorta. <i>Analyst, The</i> , 2014, 139, 3039-3047.	3.5	29
39	Effect of Diameter Variability along a Microvessel Segment on Pressure Drop. <i>Microvascular Research</i> , 1993, 45, 219-232.	2.5	28
40	Reversible Cavitation-Induced Junctional Opening in an Artificial Endothelial Layer. <i>Small</i> , 2019, 15, e1905375.	10.0	27
41	Protein Kinase C-Delta (PKC δ) Tyrosine Phosphorylation is a Critical Regulator of Neutrophil-Endothelial Cell Interaction in Inflammation. <i>Shock</i> , 2019, 51, 538-547.	2.1	27
42	Targeted Delivery of VEGF after a Myocardial Infarction Reduces Collagen Deposition and Improves Cardiac Function. <i>Cardiovascular Engineering and Technology</i> , 2012, 3, 237-247.	1.6	24
43	A targeted liposome delivery system for combretastatin A4: formulation optimization through drug loading and in vitro release studies. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2006, 60, 144-55.	0.5	24
44	Murine glomerular transcriptome links endothelial cell-specific molecule-1 deficiency with susceptibility to diabetic nephropathy. <i>PLoS ONE</i> , 2017, 12, e0185250.	2.5	23
45	Expression and Functional Significance of Adhesion Molecules on Cultured Endothelial Cells in Response to Ionizing Radiation. <i>Microcirculation</i> , 2001, 8, 355-364.	1.8	22
46	A "Geographic Information Systems"-Based Technique for the Study of Microvascular Networks. <i>Annals of Biomedical Engineering</i> , 1999, 27, 42-47.	2.5	21
47	Cholesterol Superlattice Modulates CA4P Release from Liposomes and CA4P Cytotoxicity on Mammary Cancer Cells. <i>Biophysical Journal</i> , 2012, 102, 2086-2094.	0.5	21
48	Emerging Approaches to Understanding Microvascular Endothelial Heterogeneity: A Roadmap for Developing Anti-Inflammatory Therapeutics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7770.	4.1	19
49	PKC δ inhibition as a novel medical countermeasure for radiation-induced vascular damage. <i>FASEB Journal</i> , 2018, 32, 6436-6444.	0.5	14
50	Oxygen Delivery in Irradiated Normal Tissue. <i>Journal of Radiation Research</i> , 2003, 44, 15-21.	1.6	12
51	Correlations between transmural mechanical and morphological properties in porcine thoracic descending aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 47, 12-20.	3.1	12
52	Neutrophil-endothelial interactions of murine cells is not a good predictor of their interactions in human cells. <i>FASEB Journal</i> , 2020, 34, 2691-2702.	0.5	12
53	Experimental Approaches to Evaluate Leukocyte-Endothelial Cell Interactions in Sepsis and Inflammation. <i>Shock</i> , 2020, 53, 585-595.	2.1	12
54	Omics of endothelial cell dysfunction in sepsis. <i>Vascular Biology (Bristol, England)</i> , 2022, 4, R15-R34.	3.2	11

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55	Effects of ionizing radiation on the adhesive interaction of human tumor and endothelial cells in vitro. <i>Clinical and Experimental Metastasis</i> , 1996, 15, 12-18.	3.3	8
56	Computer Simulation of Cerebral Microhemodynamics. <i>Advances in Experimental Medicine and Biology</i> , 1989, 248, 293-304.	1.6	8
57	Fast, Stable Induction of P-Glycoprotein-mediated Drug Resistance in BT-474 Breast Cancer Cells by Stable Transfection of ABCB1 Gene. <i>Anticancer Research</i> , 2015, 35, 2531-8.	1.1	7
58	Drug Development-targeted Screening of Leptin Agonist Glycopeptides. <i>International Journal of Peptide Research and Therapeutics</i> , 2008, 14, 247-254.	1.9	6
59	Modeling Oxygenation and Selective Delivery of Drug Carriers Post-Myocardial Infarction. , 2008, 614, 333-343.		6
60	Dysfunctional Microvascular Conducted Response in Irradiated Normal Tissue. <i>Advances in Experimental Medicine and Biology</i> , 2003, 510, 391-395.	1.6	6
61	Additional Pressure Drop at a Bifurcation Due to the Passage of Flexible Disks in a Large Scale Model. <i>Journal of Biomechanical Engineering</i> , 1994, 116, 497-501.	1.3	5
62	Fourier Transform Infrared Spectroscopic Imaging-Derived Collagen Content and Maturity Correlates with Stress in the Aortic Wall of Abdominal Aortic Aneurysm Patients. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 70-80.	1.6	5
63	Engineering a General Education Program: Designing Mechanical Engineering General Education Courses. <i>Innovative Higher Education</i> , 2013, 38, 117-128.	2.5	4
64	A Microphysiological System to Study Leukocyte-Endothelial Cell Interaction during Inflammation. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	4
65	Low-Volume Binary Drug Therapy for the Treatment of Hypovolemia. <i>Shock</i> , 2011, 35, 590-596.	2.1	3
66	Targeted VEGF Therapy Favorably Alters Collagen Deposition and Quality after Myocardial Infarction. <i>FASEB Journal</i> , 2010, 24, 1031.7.	0.5	2
67	Oxygen sensitivity of recessed and unrecessed antimony pH microelectrodes. <i>Medical and Biological Engineering and Computing</i> , 1989, 27, 638-640.	2.8	1
68	Expression and Functional Significance of Adhesion Molecules on Cultured Endothelial Cells in Response to Ionizing Radiation. <i>Microcirculation</i> , 2001, 8, 355-364.	1.8	1
69	Combretastatin A4 Disodium Phosphate Forms Aggregates In Solution Leading To Exciton Transfer. <i>Biophysical Journal</i> , 2009, 96, 401a.	0.5	0
70	Engineering Cardiac Tissue Using Stem Cell Therapy to Mend the Broken Heart. , 2009, , .		0
71	Targeted delivery of vascular endothelial growth factor to enhance the stem cell therapy in treating myocardial infarction in rats. , 2012, , .		0
72	Drug Development Pipeline Running Low, Whatâ€™s Data Got to Do with It?. , 2019, , .		0

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73	Myocardial Oxygenation in Infarcted Hearts Predicted by a Microvascular Transport Model. FASEB Journal, 2006, 20, A713.	0.5	0
74	Microvascular network on a PDMS chip: endothelial cell growth and microsphere adhesion. FASEB Journal, 2007, 21, A493.	0.5	0
75	In vitro characterization of a dual-receptor targeted drug delivery system for treating vascular diseases. FASEB Journal, 2011, 25, lb441.	0.5	0
76	Adhesive Interaction of Functionalized Particles and Endothelium in Idealized Microvascular Networks. FASEB Journal, 2013, 27, lb641.	0.5	0