

Timothy M Wick

List of Publications by Year in descending order

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33
papers

1,291
citations

430442

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h-index

476904

29
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docs citations

33
times ranked

1600
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentric Cylinder Bioreactor for Production of Tissue Engineered Cartilage: Effect of Seeding Density and Hydrodynamic Loading on Construct Development. <i>Biotechnology Progress</i> , 2003, 19, 510-521.	1.3	153
2	Computational Fluid Dynamics Modeling of Steady-State Momentum and Mass Transport in a Bioreactor for Cartilage Tissue Engineering. <i>Biotechnology Progress</i> , 2002, 18, 951-963.	1.3	147
3	Perfusion Bioreactor for Small Diameter Tissue-Engineered Arteries. <i>Tissue Engineering</i> , 2004, 10, 930-941.	4.9	136
4	Unusually large von willebrand factor multimers preferentially promote young sickle and nonsickle erythrocyte adhesion to endothelial cells. <i>American Journal of Hematology</i> , 1993, 42, 284-292.	2.0	87
5	Effect of Low Oxygen Tension on Tissue-Engineered Cartilage Construct Development in the Concentric Cylinder Bioreactor. <i>Tissue Engineering</i> , 2004, 10, 825-832.	4.9	69
6	Endothelial Cell-Smooth Muscle Cell Co-Culture in a Perfusion Bioreactor System. <i>Annals of Biomedical Engineering</i> , 2005, 33, 920-928.	1.3	67
7	Development of gellan gum containing formulations for transdermal drug delivery: Component evaluation and controlled drug release using temperature responsive nanogels. <i>International Journal of Pharmaceutics</i> , 2016, 509, 465-476.	2.6	67
8	Temperature-responsive nanogel multilayers of poly(N-vinylcaprolactam) for topical drug delivery. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 589-602.	5.0	67
9	Molecular basis of sickle cell-endothelial cell interactions. <i>Current Opinion in Hematology</i> , 1996, 3, 118-124.	1.2	63
10	Sickle erythrocyte adherence to endothelium at low shear: Role of shear stress in propagation of vaso-occlusion. <i>American Journal of Hematology</i> , 2002, 70, 216-227.	2.0	59
11	Hemodynamic modulation of monocytic cell adherence to vascular endothelium. <i>Annals of Biomedical Engineering</i> , 1996, 24, 382-393.	1.3	39
12	Activation of Vascular Endothelial Cell Adhesion Molecule Expression by Sickle Blood Cells. <i>Fetal and Pediatric Pathology</i> , 2001, 20, 47-72.	0.3	38
13	Inflammatory mediators promote strong sickle cell adherence to endothelium under venular flow conditions. <i>American Journal of Hematology</i> , 2003, 73, 215-224.	2.0	36
14	Sickle cell adhesion depends on hemodynamics and endothelial activation. <i>Translational Research</i> , 2004, 144, 260-267.	2.4	34
15	Novel synthesis and characterization of a collagen-based biopolymer initiated by hydroxyapatite nanoparticles. <i>Acta Biomaterialia</i> , 2015, 15, 181-190.	4.1	31
16	Mechanical properties and osteogenic potential of hydroxyapatite-PLGA-collagen biomaterial for bone regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 1139-1154.	1.9	26
17	Cytoadherence of Plasmodium Falciparum-Infected Erythrocytes to Human Umbilical Vein and Human Dermal Microvascular Endothelial Cells under Shear Conditions. <i>American Journal of Tropical Medicine and Hygiene</i> , 1991, 45, 578-586.	0.6	24
18	Prolonged contact wild blood alters surgical gown permeability. <i>American Journal of Infection Control</i> , 1993, 21, 249-256.	1.1	20

#	ARTICLE	IF	CITATIONS
19	Inhibition of plasma-mediated adherence of sickle erythrocytes to microvascular endothelium by conformationally constrained RGD-containing peptides. , 1996, 53, 92-98.		20
20	A New Animal Model for Assessing Cartilage Repair and Regeneration at a Nonarticular Site. Tissue Engineering - Part A, 2010, 16, 2321-2330.	1.6	18
21	Histamine increases sickle erythrocyte adherence to endothelium. British Journal of Haematology, 2005, 132, 051220012327005.	1.2	17
22	Plasmodium falciparum:Soluble Thrombospondin Increases Cytoadherence of Parasitized Erythrocytes to Human Microvascular Endothelium under Shear Flow Conditions. Experimental Parasitology, 1997, 87, 69-72.	0.5	14
23	Evaluation of the effect of expansion and shear stress on a self-assembled endothelium mimicking nanomatrix coating for drug eluting stents in vitro and in vivo. Biofabrication, 2014, 6, 035019.	3.7	13
24	Bone regeneration from human mesenchymal stem cells on porous hydroxyapatite-PLGA-collagen bioactive polymer scaffolds. Bio-Medical Materials and Engineering, 2017, 28, 671-685.	0.4	11
25	Transient Growth Factor Stimulation Improves Chondrogenesis in Static Culture and Under Dynamic Conditions in a Novel Shear and Perfusion Bioreactor. Cellular and Molecular Bioengineering, 2015, 8, 267-277.	1.0	10
26	Exercise Medicine for Osteoarthritis: Research Strategies to Maximize Effectiveness. Arthritis Care and Research, 2016, 68, 288-291.	1.5	9
27	Protocol Development for Vitrification of Tissue-Engineered Cartilage. BioProcessing: Advances and Trends in Biological Product Development, 2010, 8, 29-36.	0.1	4
28	Plasmodium fragile: Cytoadherence of parasitized rhesus monkey erythrocytes to human endothelial cells under shear flow conditions. Experimental Parasitology, 1992, 74, 228-231.	0.5	3
29	RBC Adhesion to Cremaster Endothelium in Mice with Abnormal Hemoglobin is Increased by Topical Endotoxin. Annals of the New York Academy of Sciences, 1998, 850, 391-393.	1.8	3
30	Catheter placement selection for convection-enhanced delivery of therapeutic agents to brain tumors. F1000Research, 0, 9, 1415.	0.8	3
31	Optimization of catheter placement for convection-enhanced delivery to brain tumors. F1000Research, 0, 10, 18.	0.8	2
32	Inhibition of plasma-mediated adherence of sickle erythrocytes to microvascular endothelium by conformationally constrained RGD-containing peptides. American Journal of Hematology, 1996, 53, 92-98.	2.0	1
33	A Novel Multi-Stimuli Bioreactor for Tissue Engineering Cartilage. , 2013, , .		0