

Howard W T Matthew

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

5,466
citations

279798

23
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

6560
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport Analysis of Engineered Liver Tissue Fabricated Using a Capsule-Based, Modular Approach. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1223-1236.	2.5	3
2	Scalable MSC-derived bone tissue modules: In vitro assessment of differentiation, matrix deposition, and compressive load bearing. <i>Acta Biomaterialia</i> , 2019, 95, 395-407.	8.3	10
3	Biomimetic Scaffolds for Skeletal Muscle Regeneration. <i>Discoveries</i> , 2019, 7, e90.	2.3	17
4	Encapsulation of mesenchymal stem cells in glycosaminoglycans- χ chitosan polyelectrolyte microcapsules using electrospraying technique: Investigating capsule morphology and cell viability. <i>Bioengineering and Translational Medicine</i> , 2018, 3, 265-274.	7.1	21
5	Morphological and growth responses of vascular smooth muscle and endothelial cells cultured on immobilized heparin and dextran sulfate surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1725-1735.	4.0	5
6	Metabolic Oscillations in Co-cultures of Hepatocytes and Mesenchymal Stem Cells: Effects of Seeding Arrangement and Culture Mixing. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3003-3015.	2.6	11
7	Subchondral and epiphyseal bone remodeling following surgical transection and noninvasive rupture of the anterior cruciate ligament as models of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 698-708.	1.3	38
8	Chitosan films with improved tensile strength and toughness from N-acetyl-cysteine mediated disulfide bonds. <i>Carbohydrate Polymers</i> , 2016, 139, 1-9.	10.2	40
9	Biomechanical Characterization of a Model of Noninvasive, Traumatic Anterior Cruciate Ligament Injury in the Rat. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2467-2476.	2.5	29
10	A Glycosaminoglycan Based, Modular Tissue Scaffold System for Rapid Assembly of Perfusable, High Cell Density, Engineered Tissues. <i>PLoS ONE</i> , 2014, 9, e84287.	2.5	74
11	Chitosan fibers with improved biological and mechanical properties for tissue engineering applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 217-226.	3.1	74
12	Improving the mechanical properties of chitosan-based heart valve scaffolds using chitosan fibers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 5, 171-180.	3.1	94
13	Covalently immobilized glycosaminoglycans enhance megakaryocyte progenitor expansion and platelet release. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 682-692.	4.0	11
14	Membrane thickness is an important variable in membrane scaffolds: Influence of chitosan membrane structure on the behavior of cells. <i>Acta Biomaterialia</i> , 2010, 6, 2126-2131.	8.3	22
15	Optimization-based metabolic control analysis. <i>Biotechnology Progress</i> , 2010, 26, 1567-1579.	2.6	3
16	Thymosin β 4 and corneal wound healing: visions of the future. <i>Annals of the New York Academy of Sciences</i> , 2010, 1194, 190-198.	3.8	36
17	Effects of Immobilized Glycosaminoglycans on the Proliferation and Differentiation of Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 3499-3512.	3.1	89
18	Branched chitosans II: Effects of branching on degradation, protein adsorption and cell growth properties. <i>Acta Biomaterialia</i> , 2009, 5, 1575-1581.	8.3	8

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19	Improved tissue-engineered bone regeneration by endothelial cell mediated vascularization. <i>Biomaterials</i> , 2009, 30, 508-517.	11.4	213
20	Promotion of osteogenesis in tissue-engineered bone by pre-seeding endothelial progenitor cells-derived endothelial cells. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1147-1152.	2.3	84
21	Application of porous glycosaminoglycan-based scaffolds for expansion of human cord blood stem cells in perfusion culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 98-107.	4.0	45
22	Effect of immobilized glycosaminoglycans on megakaryocyte expansion, apoptosis and platelet release. <i>FASEB Journal</i> , 2008, 22, 522.6.	0.5	0
23	Direct oxygenation and perfusion enhance viability and function of hepatocyte-seeded scaffolds. <i>FASEB Journal</i> , 2008, 22, 465.5.	0.5	0
24	Enhanced Oxygen Delivery to Primary Hepatocytes within a Hollow Fiber Bioreactor Facilitated via Hemoglobin-Based Oxygen Carriers. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2007, 35, 585-606.	0.9	33
25	Investigation of metabolic objectives in cultured hepatocytes. <i>Biotechnology and Bioengineering</i> , 2007, 97, 622-637.	3.3	28
26	Branched chitosans: Effects of branching parameters on rheological and mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 201-212.	4.0	12
27	Video-Gait Analysis of Functional Recovery of Nerve Repaired with Chitosan Nerve Guides. <i>Tissue Engineering</i> , 2006, 12, 3189-3199.	4.6	40
28	DFBA-LQR: An Optimal Control Approach to Flux Balance Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 8554-8564.	3.7	11
29	Immobilized Glycosaminoglycans Reduce Thrombopoietin-Induced Apoptosis during In Vitro Expansion of Megakaryocyte Precursors from Cord Blood CD34+ Cells. <i>Blood</i> , 2006, 108, 1127-1127.	1.4	0
30	Adsorbed layers of oriented fibronectin: A strategy to control cell-surface interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 316-323.	4.0	37
31	Evaluation of the biocompatibility of a chitosan scaffold in mice. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 585-590.	3.1	637
32	Biomaterials and Scaffolds in Reparative Medicine. <i>Annals of the New York Academy of Sciences</i> , 2002, 961, 96-105.	3.8	105
33	Microencapsulation Methods. , 2002, , 815-823.		2
34	Application of chitosan-based polysaccharide biomaterials in cartilage tissue engineering: a review. <i>Biomaterials</i> , 2000, 21, 2589-2598.	11.4	1,831
35	Vascular cell responses to polysaccharide materials. <i>Biomaterials</i> , 2000, 21, 2315-2322.	11.4	191
36	Maintenance of CD34 Expression During Proliferation of CD34+ Cord Blood Cells on Glycosaminoglycan Surfaces. <i>Stem Cells</i> , 1999, 17, 295-305.	3.2	40

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37	Porous chitosan scaffolds for tissue engineering. <i>Biomaterials</i> , 1999, 20, 1133-1142.	11.4	1,437
38	Extracorporeal Plasma Perfusion of Cultured Hepatocytes: Effect of Intermittent Perfusion on Hepatocyte Function and Morphology. <i>Journal of Surgical Research</i> , 1996, 66, 57-63.	1.6	31
39	Complex coacervate microcapsules for mammalian cell culture and artificial organ development. <i>Biotechnology Progress</i> , 1993, 9, 510-519.	2.6	79
40	Performance of plasma-perfused, microencapsulated hepatocytes: Prospects for extracorporeal liver support. <i>Journal of Pediatric Surgery</i> , 1993, 28, 1423-1428.	1.6	25