Zhongkui Hong

List of Publications by Citations

48 papers	3,348 citations	28 h-index	52 g-index
52 ext. papers	3,760 ext. citations	6.2 avg, IF	4.96 L-index

#	Paper	IF	Citations
48	Polymer/bioactive glass nanocomposites for biomedical applications: A review. *Composites Science and Technology*, **2010**, 70, 1764-1776	8.6	384
47	Nano-composite of poly(L-lactide) and surface grafted hydroxyapatite: mechanical properties and biocompatibility. *Biomaterials*, **2005**, 26, 6296-304	15.6	369
46	In vivo mineralization and osteogenesis of nanocomposite scaffold of poly(lactide-co-glycolide) and hydroxyapatite surface-grafted with poly(L-lactide). *Biomaterials*, **2009**, 30, 58-70	15.6	221
45	Grafting polymerization of l-lactide on the surface of hydroxyapatite nano-crystals. *Polymer*, **2004**, 45, 6699-6706	3.9	199
44	Preparation and in vitro characterization of scaffolds of poly(L-lactic acid) containing bioactive glass ceramic nanoparticles. *Acta Biomaterialia*, **2008**, 4, 1297-306	10.8	143
43	Development of bioactive and biodegradable chitosan-based injectable systems containing bioactive glass nanoparticles. *Acta Biomaterialia*, **2009**, 5, 115-23	10.8	136
42	Increased vascular smooth muscle cell stiffness: a novel mechanism for aortic stiffness in hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 305, H1281-7	5.2	116
41	Study on crystalline morphology of poly(l-lactide)-poly(ethylene glycol) diblock copolymer. *Polymer*, **2004**, 45, 5969-5977	3.9	104
40	Surface modification of bioactive glass nanoparticles and the mechanical and biological properties of poly(L-lactide) composites. *Acta Biomaterialia*, **2008**, 4, 1005-15	10.8	103
39	RGD-conjugated copolymer incorporated into composite of poly(lactide-co-glycotide) and poly(L-lactide)-grafted nanohydroxyapatite for bone tissue engineering. *Biomacromolecules*, **2011**, 12, 2667-80	6.9	101
38	Electrospun poly(l-lactide)-grafted hydroxyapatite/poly(l-lactide) nanocomposite fibers. *European Polymer Journal*, **2007**, 43, 3187-3196	5.2	101
37	Cancer exosomes induce tumor innervation. *Nature Communications*, **2018**, 9, 4284	17.4	97
36	Poly(l-lactide)/starch blends compatibilized with poly(l-lactide)-g-starch copolymer. *Carbohydrate Polymers*, **2006**, 65, 75-80	10.3	93
35	Formation of a unique crystal morphology for the poly(ethylene glycol)-poly(epsilon-caprolactone) diblock copolymer. *Biomacromolecules*, **2006**, 7, 252-8	6.9	88
34	Preparation of bioactive glass ceramic nanoparticles by combination of sol–gel and coprecipitation method. *Journal of Non-Crystalline Solids*, **2009**, 355, 368-372	3.9	83
33	The starch grafted poly(l-lactide) and the physical properties of its blending composites. *Polymer*, **2005**, 46, 5723-5729	3.9	83
32	Augmented vascular smooth muscle cell stiffness and adhesion when hypertension is superimposed on aging. *Hypertension*, **2015**, 65, 370-7	8.5	76

31	Functionalization of PCL-3D Electrospun Nanofibrous Scaffolds for Improved BMP2-Induced Bone Formation. *Applied Materials Today*, **2018**, 10, 194-202	6.6	74
30	Composites of poly(lactide-co-glycolide) and the surface modified carbonated hydroxyapatite nanoparticles. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 515-22	5.4	72
29	Temporal analysis of vascular smooth muscle cell elasticity and adhesion reveals oscillation waveforms that differ with aging. *Aging Cell*, **2012**, 11, 741-50	9.9	60
28	Surface-modified hydroxyapatite linked by L-lactic acid oligomer in the absence of catalyst. *Journal of Polymer Science Part A*, **2005**, 43, 5177-5185	2.5	58
27	Mono-dispersed bioactive glass nanospheres: preparation and effects on biomechanics of mammalian cells. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 747-54	5.4	54
26	Coordination of fibronectin adhesion with contraction and relaxation in microvascular smooth muscle. *Cardiovascular Research*, **2012**, 96, 73-80	9.9	47
25	Mechanical activation of angiotensin II type 1 receptors causes actin remodelling and myogenic responsiveness in skeletal muscle arterioles. *Journal of Physiology*, **2016**, 594, 7027-7047	3.9	40
24	Tailoring weight ratio of PCL/PLA in electrospun three-dimensional nanofibrous scaffolds and the effect on osteogenic differentiation of stem cells. *Colloids and Surfaces B: Biointerfaces*, **2018**, 171, 31-39	6	40
23	Vasoactive agonists exert dynamic and coordinated effects on vascular smooth muscle cell elasticity, cytoskeletal remodelling and adhesion. *Journal of Physiology*, **2014**, 592, 1249-66	3.9	38
22	Novel Rice-shaped Bioactive Ceramic Nanoparticles. *Advanced Engineering Materials*, **2009**, 11, B25-B29	3.5	29
21	Vascular smooth muscle cell stiffness and adhesion to collagen I modified by vasoactive agonists. *PLoS ONE*, **2015**, 10, e0119533	3.7	28
20	Fabrication and Characterization of Pectin Hydrogel Nanofiber Scaffolds for Differentiation of Mesenchymal Stem Cells into Vascular Cells. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6511-6519	5.5	27
19	Vascular extracellular matrix and fibroblasts-coculture directed differentiation of human mesenchymal stem cells toward smooth muscle-like cells for vascular tissue engineering. *Materials Science and Engineering C*, **2018**, 93, 61-69	8.3	19
18	How cholesterol regulates endothelial biomechanics. *Frontiers in Physiology*, **2012**, 3, 426	4.6	16
17	Membrane cholesterol and substrate stiffness co-ordinate to induce the remodelling of the cytoskeleton and the alteration in the biomechanics of vascular smooth muscle cells. *Cardiovascular Research*, **2019**, 115, 1369-1380	9.9	16
16	Statin-mediated cholesterol depletion exerts coordinated effects on the alterations in rat vascular smooth muscle cell biomechanics and migration. *Journal of Physiology*, **2020**, 598, 1505-1522	3.9	13
15	Vessel graft fabricated by the on-site differentiation of human mesenchymal stem cells towards vascular cells on vascular extracellular matrix scaffold under mechanical stimulation in a rotary bioreactor. *Journal of Materials Chemistry B*, **2019**, 7, 2703-2713	7.3	11
14	Gelatin-crosslinked pectin nanofiber mats allowing cell infiltration. *Materials Science and Engineering C*, **2020**, 112, 110941	8.3	11

13	Spontaneous oscillation in cell adhesion and stiffness measured using atomic force microscopy. *Scientific Reports*, **2018**, 8, 2899	4.9	11
12	Lysophosphatidic acid induces integrin activation in vascular smooth muscle and alters arteriolar myogenic vasoconstriction. *Frontiers in Physiology*, **2014**, 5, 413	4.6	11
11	Electrospun nanofiber scaffold for vascular tissue engineering. *Materials Science and Engineering C*, **2021**, 129, 112373	8.3	11
10	Extracellular Matrix Proteins and Substrate Stiffness Synergistically Regulate Vascular Smooth Muscle Cell Migration and Cortical Cytoskeleton Organization. *ACS Applied Bio Materials*, **2020**, 3, 2360-2369	4.1	9
9	Low doses of zeolitic imidazolate framework-8 nanoparticles alter the actin organization and contractility of vascular smooth muscle cells. *Journal of Hazardous Materials*, **2021**, 414, 125514	12.8	8
8	An Elastic Mineralized 3D Electrospun PCL Nanofibrous Scaffold for Drug Release and Bone Tissue Engineering. *ACS Applied Bio Materials*, **2021**, 4, 3639-3648	4.1	7
7	Influence of membrane cholesterol and substrate elasticity on endothelial cell spreading behavior. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 1994-2004	5.4	6
6	Tumor-infiltrating nerves create an electro-physiologically active microenvironment and contribute to treatment resistance		4
5	Temporal and molecular dynamics of human metastatic breast carcinoma cell adhesive interactions with human bone marrow endothelium analyzed by single-cell force spectroscopy. *PLoS ONE*, **2018**, 13, e0204418	3.7	4
4	On-Site Differentiation of Human Mesenchymal Stem Cells into Vascular Cells on Extracellular Matrix Scaffold Under Mechanical Stimulations for Vascular Tissue Engineering. *Methods in Molecular Biology*, **2022**, 2375, 35-46	1.4	1
3	The interplay of membrane cholesterol and substrate on vascular smooth muscle biomechanics. *Current Topics in Membranes*, **2020**, 86, 279-299	2.2	0
2	Isolated Vascular Smooth Muscle Stiffness as a Common Mechanism to the Increased Aortic Stiffness of Aging and Hypertension. *FASEB Journal*, **2013**, 27, lb687	0.9	
1	Calcium and its role in vascular smooth muscle cell cortical elasticity and adhesion. *FASEB Journal*, **2013**, 27, lb700	0.9	