

William R Wagner

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

232
papers

12,711
citations

60
h-index

105
g-index

247
ext. papers

13,909
ext. citations

7
avg, IF

6.21
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 232 | Microbubbles targeted to intercellular adhesion molecule-1 bind to activated coronary artery endothelial cells. <i>Circulation</i> , 1998 , 98, 1-5 | 16.7 | 850 |
| 231 | Preparation and characterization of highly porous, biodegradable polyurethane scaffolds for soft tissue applications. <i>Biomaterials</i> , 2005 , 26, 3961-71 | 15.6 | 554 |
| 230 | Microintegrating smooth muscle cells into a biodegradable, elastomeric fiber matrix. <i>Biomaterials</i> , 2006 , 27, 735-44 | 15.6 | 318 |
| 229 | Design and analysis of tissue engineering scaffolds that mimic soft tissue mechanical anisotropy. <i>Biomaterials</i> , 2006 , 27, 3631-8 | 15.6 | 307 |
| 228 | Elevated platelet factor 4 and beta-thromboglobulin plasma levels in depressed patients with ischemic heart disease. <i>Biological Psychiatry</i> , 1997 , 42, 290-5 | 7.9 | 287 |
| 227 | Synthesis, characterization, and cytocompatibility of elastomeric, biodegradable poly(ester-urethane)ureas based on poly(caprolactone) and putrescine. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 493-503 | | 242 |
| 226 | Synthesis, characterization and therapeutic efficacy of a biodegradable, thermoresponsive hydrogel designed for application in chronic infarcted myocardium. <i>Biomaterials</i> , 2009 , 30, 4357-68 | 15.6 | 230 |
| 225 | Fate of culture-expanded mesenchymal stem cells in the microvasculature: in vivo observations of cell kinetics. <i>Circulation Research</i> , 2009 , 104, 398-402 | 15.7 | 230 |
| 224 | A bilayered elastomeric scaffold for tissue engineering of small diameter vascular grafts. <i>Acta Biomaterialia</i> , 2010 , 6, 110-22 | 10.8 | 220 |
| 223 | Ultrasound imaging of acute cardiac transplant rejection with microbubbles targeted to intercellular adhesion molecule-1. <i>Circulation</i> , 2003 , 108, 218-24 | 16.7 | 217 |
| 222 | Biodegradable poly(ether ester urethane)urea elastomers based on poly(ether ester) triblock copolymers and putrescine: synthesis, characterization and cytocompatibility. <i>Biomaterials</i> , 2004 , 25, 85-96 | 15.6 | 203 |
| 221 | An elastic, biodegradable cardiac patch induces contractile smooth muscle and improves cardiac remodeling and function in subacute myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 2292-300 | 15.1 | 188 |
| 220 | Fabrication of cell microintegrated blood vessel constructs through electrohydrodynamic atomization. <i>Biomaterials</i> , 2007 , 28, 2738-46 | 15.6 | 173 |
| 219 | Fabrication of biodegradable elastomeric scaffolds with sub-micron morphologies. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 603-14 | | 172 |
| 218 | Ultrasonic imaging of tumor angiogenesis using contrast microbubbles targeted via the tumor-binding peptide arginine-arginine-leucine. <i>Cancer Research</i> , 2005 , 65, 533-9 | 10.1 | 168 |
| 217 | Mechanical properties and in vivo behavior of a biodegradable synthetic polymer microfiber-extracellular matrix hydrogel biohybrid scaffold. <i>Biomaterials</i> , 2011 , 32, 3387-94 | 15.6 | 161 |
| 216 | Intra-myocardial biomaterial injection therapy in the treatment of heart failure: Materials, outcomes and challenges. <i>Acta Biomaterialia</i> , 2011 , 7, 1-15 | 10.8 | 158 |

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| 215 | Development of a tissue-engineered vascular graft combining a biodegradable scaffold, muscle-derived stem cells and a rotational vacuum seeding technique. <i>Biomaterials</i> , 2008 , 29, 825-33 | 15.6 | 149 |
| 214 | Biodegradable polyurethane ureas with variable polyester or polycarbonate soft segments: effects of crystallinity, molecular weight, and composition on mechanical properties. <i>Biomacromolecules</i> , 2011 , 12, 3265-74 | 6.9 | 148 |
| 213 | Injectable, rapid gelling and highly flexible hydrogel composites as growth factor and cell carriers. <i>Acta Biomaterialia</i> , 2010 , 6, 1978-91 | 10.8 | 146 |
| 212 | Tailoring the degradation kinetics of poly(ester carbonate urethane)urea thermoplastic elastomers for tissue engineering scaffolds. <i>Biomaterials</i> , 2010 , 31, 4249-58 | 15.6 | 145 |
| 211 | Evaluation of platelet activation in depressed patients with ischemic heart disease after paroxetine or nortriptyline treatment. <i>Journal of Clinical Psychopharmacology</i> , 2000 , 20, 137-40 | 1.7 | 145 |
| 210 | Biodegradable elastomeric scaffolds with basic fibroblast growth factor release. <i>Journal of Controlled Release</i> , 2007 , 120, 70-8 | 11.7 | 141 |
| 209 | A small diameter, fibrous vascular conduit generated from a poly(ester urethane)urea and phospholipid polymer blend. <i>Biomaterials</i> , 2009 , 30, 2457-67 | 15.6 | 139 |
| 208 | Myocardial ischemic memory imaging with molecular echocardiography. <i>Circulation</i> , 2007 , 115, 345-52 | 16.7 | 139 |
| 207 | Comparative in vitro analysis of topical hemostatic agents. <i>Journal of Surgical Research</i> , 1996 , 66, 100-8 | 2.5 | 132 |
| 206 | Targeted ultrasound contrast agents: in vitro assessment of endothelial dysfunction and multi-targeting to ICAM-1 and sialyl Lewisx. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 780-8 | 4.9 | 130 |
| 205 | Characterization of the complete fiber network topology of planar fibrous tissues and scaffolds. <i>Biomaterials</i> , 2010 , 31, 5345-54 | 15.6 | 123 |
| 204 | In vivo assessment of a tissue-engineered vascular graft combining a biodegradable elastomeric scaffold and muscle-derived stem cells in a rat model. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1215-23 | 3.9 | 122 |
| 203 | Pericyte-based human tissue engineered vascular grafts. <i>Biomaterials</i> , 2010 , 31, 8235-44 | 15.6 | 120 |
| 202 | Computational simulation of platelet deposition and activation: I. Model development and properties. <i>Annals of Biomedical Engineering</i> , 1999 , 27, 436-48 | 4.7 | 118 |
| 201 | The engineering of organized human corneal tissue through the spatial guidance of corneal stromal stem cells. <i>Biomaterials</i> , 2012 , 33, 1343-52 | 15.6 | 115 |
| 200 | Modulating targeted adhesion of an ultrasound contrast agent to dysfunctional endothelium. <i>Annals of Biomedical Engineering</i> , 2002 , 30, 1012-9 | 4.7 | 112 |
| 199 | Preclinical biocompatibility assessment of the EVAHEART ventricular assist device: coating comparison and platelet activation. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 85-92 | 5.4 | 107 |
| 198 | On the biomechanical function of scaffolds for engineering load-bearing soft tissues. <i>Acta Biomaterialia</i> , 2010 , 6, 2365-81 | 10.8 | 105 |

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| 197 | Targeted in vivo labeling of receptors for vascular endothelial growth factor: approach to identification of ischemic tissue. <i>Circulation</i> , 2003 , 108, 97-103 | 16.7 | 105 |
| 196 | Aging of the skeletal muscle extracellular matrix drives a stem cell fibrogenic conversion. <i>Aging Cell</i> , 2017 , 16, 518-528 | 9.9 | 104 |
| 195 | Synthesis, characterization and cytocompatibility of polyurethaneurea elastomers with designed elastase sensitivity. <i>Biomacromolecules</i> , 2005 , 6, 2833-42 | 6.9 | 102 |
| 194 | In vivo evaluation of a porous, elastic, biodegradable patch for reconstructive cardiac procedures. <i>Annals of Thoracic Surgery</i> , 2007 , 83, 648-54 | 2.7 | 101 |
| 193 | Generating elastic, biodegradable polyurethane/poly(lactide-co-glycolide) fibrous sheets with controlled antibiotic release via two-stream electrospinning. <i>Biomacromolecules</i> , 2008 , 9, 1200-7 | 6.9 | 97 |
| 192 | Hybrid nanofibrous scaffolds from electrospinning of a synthetic biodegradable elastomer and urinary bladder matrix. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 635-52 | 3.5 | 90 |
| 191 | In vivo performance of a phospholipid-coated bioerodable elastomeric graft for small-diameter vascular applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 436-48 | 5.4 | 89 |
| 190 | Treatment of rat pancreatic islets with reactive PEG. <i>Biomaterials</i> , 2000 , 21, 1155-64 | 15.6 | 87 |
| 189 | A seeding device for tissue engineered tubular structures. <i>Biomaterials</i> , 2006 , 27, 4863-70 | 15.6 | 86 |
| 188 | Photocissable Hydrogel Synthesis via Rapid Photopolymerization of Novel PEG-Based Polymers in the Absence of Photoinitiators?. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6235-6240 | 16.4 | 85 |
| 187 | Protein-reactive, thermoresponsive copolymers with high flexibility and biodegradability. <i>Biomacromolecules</i> , 2008 , 9, 1283-92 | 6.9 | 82 |
| 186 | Bioengineering organized, multilamellar human corneal stromal tissue by growth factor supplementation on highly aligned synthetic substrates. <i>Tissue Engineering - Part A</i> , 2013 , 19, 2063-75 | 3.9 | 81 |
| 185 | Reactive oxygen species scavenging with a biodegradable, thermally responsive hydrogel compatible with soft tissue injection. <i>Biomaterials</i> , 2018 , 177, 98-112 | 15.6 | 81 |
| 184 | Bi-layered polyurethane - Extracellular matrix cardiac patch improves ischemic ventricular wall remodeling in a rat model. <i>Biomaterials</i> , 2016 , 107, 1-14 | 15.6 | 79 |
| 183 | Thermally responsive injectable hydrogel incorporating methacrylate-poly(lactide) for hydrolytic lability. <i>Biomacromolecules</i> , 2010 , 11, 1873-81 | 6.9 | 76 |
| 182 | Computational simulation of platelet deposition and activation: II. Results for Poiseuille flow over collagen. <i>Annals of Biomedical Engineering</i> , 1999 , 27, 449-58 | 4.7 | 73 |
| 181 | Tissue-to-cellular level deformation coupling in cell micro-integrated elastomeric scaffolds. <i>Biomaterials</i> , 2008 , 29, 3228-36 | 15.6 | 69 |
| 180 | Elastomeric electrospun polyurethane scaffolds: the interrelationship between fabrication conditions, fiber topology, and mechanical properties. <i>Advanced Materials</i> , 2011 , 23, 106-11 | 24 | 68 |

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|-----|--|------|----|
| 179 | Simple surface modification of a titanium alloy with silanated zwitterionic phosphorylcholine or sulfobetaine modifiers to reduce thrombogenicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 357-64 | 6 | 68 |
| 178 | Morphological and mechanical characteristics of the reconstructed rat abdominal wall following use of a wet electrospun biodegradable polyurethane elastomer scaffold. <i>Biomaterials</i> , 2010 , 31, 3253-65 | 15.6 | 67 |
| 177 | Microstructural manipulation of electrospun scaffolds for specific bending stiffness for heart valve tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 4268-77 | 10.8 | 66 |
| 176 | Influence of serotonin-transporter-linked promoter region polymorphism on platelet activation in geriatric depression. <i>American Journal of Psychiatry</i> , 2001 , 158, 2074-6 | 11.9 | 64 |
| 175 | Corneal stromal stem cells versus corneal fibroblasts in generating structurally appropriate corneal stromal tissue. <i>Experimental Eye Research</i> , 2014 , 120, 71-81 | 3.7 | 63 |
| 174 | Albumin microbubble adherence to human coronary endothelium: implications for assessment of endothelial function using myocardial contrast echocardiography. <i>Journal of the American College of Cardiology</i> , 1997 , 30, 689-93 | 15.1 | 63 |
| 173 | Immobilized Carbonic Anhydrase on Hollow Fiber Membranes Accelerates CO(2) Removal from Blood. <i>Journal of Membrane Science</i> , 2012 , 404-404, 25-31 | 9.6 | 62 |
| 172 | Molecular barriers to biomaterial thrombosis by modification of surface proteins with polyethylene glycol. <i>Biomaterials</i> , 1998 , 19, 1885-93 | 15.6 | 60 |
| 171 | Targeting and ultrasound imaging of microbubble-based contrast agents. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1999 , 8, 177-84 | 2.8 | 58 |
| 170 | From single fiber to macro-level mechanics: A structural finite-element model for elastomeric fibrous biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 146-61 | 4.1 | 56 |
| 169 | Surface modification of a biodegradable magnesium alloy with phosphorylcholine (PC) and sulfobetaine (SB) functional macromolecules for reduced thrombogenicity and acute corrosion resistance. <i>Langmuir</i> , 2013 , 29, 8320-7 | 4 | 55 |
| 168 | Nonthrombogenic, biodegradable elastomeric polyurethanes with variable sulfobetaine content. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22796-806 | 9.5 | 54 |
| 167 | Right ventricular outflow tract repair with a cardiac biologic scaffold. <i>Cells Tissues Organs</i> , 2012 , 195, 159-70 | 2.1 | 54 |
| 166 | Biodegradable poly(ester urethane)urea elastomers with variable amino content for subsequent functionalization with phosphorylcholine. <i>Acta Biomaterialia</i> , 2014 , 10, 4639-4649 | 10.8 | 53 |
| 165 | Timing effect of intramyocardial hydrogel injection for positively impacting left ventricular remodeling after myocardial infarction. <i>Biomaterials</i> , 2016 , 83, 182-93 | 15.6 | 52 |
| 164 | Towards microfabricated biohybrid artificial lung modules for chronic respiratory support. <i>Biomedical Microdevices</i> , 2009 , 11, 117-27 | 3.7 | 52 |
| 163 | Synthesis, characterization and surface modification of low moduli poly(ether carbonate urethane)ureas for soft tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 2901-12 | 10.8 | 52 |
| 162 | Controlled release of IGF-1 and HGF from a biodegradable polyurethane scaffold. <i>Pharmaceutical Research</i> , 2011 , 28, 1282-93 | 4.5 | 50 |

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|-----|--|------|----|
| 161 | Synthesis, characterization, and paclitaxel release from a biodegradable, elastomeric, poly(ester urethane)urea bearing phosphorylcholine groups for reduced thrombogenicity. <i>Biomacromolecules</i> , 2012 , 13, 3686-94 | 6.9 | 49 |
| 160 | Platelet activation, aggregation, and life span in calves implanted with axial flow ventricular assist devices. <i>Annals of Thoracic Surgery</i> , 2002 , 73, 1933-8 | 2.7 | 49 |
| 159 | Biodegradable, elastomeric coatings with controlled anti-proliferative agent release for magnesium-based cardiovascular stents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 144, 170-179 | 6 | 49 |
| 158 | Ventricular wall biomaterial injection therapy after myocardial infarction: Advances in material design, mechanistic insight and early clinical experiences. <i>Biomaterials</i> , 2017 , 129, 37-53 | 15.6 | 48 |
| 157 | Modeling flow effects on thrombotic deposition in a membrane oxygenator. <i>Artificial Organs</i> , 2000 , 24, 29-36 | 2.6 | 48 |
| 156 | Mesenchymal stem cells attenuate angiotensin II-induced aortic aneurysm growth in apolipoprotein E-deficient mice. <i>Journal of Vascular Surgery</i> , 2011 , 54, 1743-52 | 3.5 | 47 |
| 155 | An elastomeric patch electrospun from a blended solution of dermal extracellular matrix and biodegradable polyurethane for rat abdominal wall repair. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 122-32 | 2.9 | 47 |
| 154 | Ultrasound molecular imaging of cardiovascular disease. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2008 , 5 Suppl 2, S26-32 | | 46 |
| 153 | The effect of polymer degradation time on functional outcomes of temporary elastic patch support in ischemic cardiomyopathy. <i>Biomaterials</i> , 2013 , 34, 7353-63 | 15.6 | 45 |
| 152 | Elastase-sensitive elastomeric scaffolds with variable anisotropy for soft tissue engineering. <i>Pharmaceutical Research</i> , 2008 , 25, 2400-12 | 4.5 | 45 |
| 151 | Optimal elastomeric scaffold leaflet shape for pulmonary heart valve leaflet replacement. <i>Journal of Biomechanics</i> , 2013 , 46, 662-9 | 2.9 | 44 |
| 150 | Creating molecular barriers to acute platelet deposition on damaged arteries with reactive polyethylene glycol. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 251-6 | | 44 |
| 149 | Characterizing the modification of surface proteins with poly(ethylene glycol) to interrupt platelet adhesion. <i>Biomaterials</i> , 2006 , 27, 3125-35 | 15.6 | 44 |
| 148 | Fiber micro-architecture in the longitudinal-radial and circumferential-radial planes of ascending thoracic aortic aneurysm media. <i>Journal of Biomechanics</i> , 2013 , 46, 2787-94 | 2.9 | 43 |
| 147 | Topography-driven surface renewal. <i>Nature Physics</i> , 2018 , 14, 948-953 | 16.2 | 43 |
| 146 | Naive rat amnion-derived cell transplantation improved left ventricular function and reduced myocardial scar of postinfarcted heart. <i>Cell Transplantation</i> , 2009 , 18, 477-86 | 4 | 42 |
| 145 | Heart valve scaffold fabrication: Bioinspired control of macro-scale morphology, mechanics and micro-structure. <i>Biomaterials</i> , 2018 , 150, 25-37 | 15.6 | 41 |
| 144 | Extended and sequential delivery of protein from injectable thermoresponsive hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 776-85 | 5.4 | 41 |

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| 143 | Molecular barriers to biomaterial thrombosis by modification of surface proteins with polyethylene glycol. <i>Biomaterials</i> , 1999 , 20, 101-9 | 15.6 | 41 |
| 142 | Sustained viral gene delivery from a micro-fibrous, elastomeric cardiac patch to the ischemic rat heart. <i>Biomaterials</i> , 2017 , 133, 132-143 | 15.6 | 40 |
| 141 | Intramyocardial injection of a synthetic hydrogel with delivery of bFGF and IGF1 in a rat model of ischemic cardiomyopathy. <i>Biomacromolecules</i> , 2014 , 15, 1-11 | 6.9 | 39 |
| 140 | Transient elastic support for vein grafts using a constricting microfibrillar polymer wrap. <i>Biomaterials</i> , 2008 , 29, 3213-20 | 15.6 | 39 |
| 139 | Targeted ultrasound imaging using microbubbles. <i>Cardiology Clinics</i> , 2004 , 22, 283-98, vii | 2.5 | 39 |
| 138 | Multi-Constituent Simulation of Thrombus Deposition. <i>Scientific Reports</i> , 2017 , 7, 42720 | 4.9 | 38 |
| 137 | Predicting membrane oxygenator pressure drop using computational fluid dynamics. <i>Artificial Organs</i> , 2002 , 26, 600-7 | 2.6 | 38 |
| 136 | Elimination of adverse leakage flow in a miniature pediatric centrifugal blood pump by computational fluid dynamics-based design optimization. <i>ASAIO Journal</i> , 2005 , 51, 636-43 | 3.6 | 38 |
| 135 | A custom image-based analysis tool for quantifying elastin and collagen micro-architecture in the wall of the human aorta from multi-photon microscopy. <i>Journal of Biomechanics</i> , 2014 , 47, 935-943 | 2.9 | 37 |
| 134 | Development of composite porous scaffolds based on collagen and biodegradable poly(ester urethane)urea. <i>Cell Transplantation</i> , 2006 , 15 Suppl 1, S17-27 | 4 | 37 |
| 133 | Non-invasive characterization of polyurethane-based tissue constructs in a rat abdominal repair model using high frequency ultrasound elasticity imaging. <i>Biomaterials</i> , 2013 , 34, 2701-9 | 15.6 | 36 |
| 132 | Covalent surface modification of a titanium alloy with a phosphorylcholine-containing copolymer for reduced thrombogenicity in cardiovascular devices. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 18-28 | 5.4 | 36 |
| 131 | In Vivo Functional Evaluation of Tissue-Engineered Vascular Grafts Fabricated Using Human Adipose-Derived Stem Cells from High Cardiovascular Risk Populations. <i>Tissue Engineering - Part A</i> , 2016 , 22, 765-75 | 3.9 | 35 |
| 130 | Biodegradable elastic patch plasty ameliorates left ventricular adverse remodeling after ischemia-reperfusion injury: a preclinical study of a porous polyurethane material in a porcine model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013 , 146, 391-9.e1 | 1.5 | 33 |
| 129 | Placement of an elastic biodegradable cardiac patch on a subacute infarcted heart leads to cellularization with early developmental cardiomyocyte characteristics. <i>Journal of Cardiac Failure</i> , 2012 , 18, 585-95 | 3.3 | 33 |
| 128 | Orthogonally Functionalizable Polyurethane with Subsequent Modification with Heparin and Endothelium-Inducing Peptide Aiming for Vascular Reconstruction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14442-52 | 9.5 | 32 |
| 127 | Constitutive modeling of ascending thoracic aortic aneurysms using microstructural parameters. <i>Medical Engineering and Physics</i> , 2016 , 38, 121-30 | 2.4 | 32 |
| 126 | Surface modification of a titanium alloy with a phospholipid polymer prepared by a plasma-induced grafting technique to improve surface thromboresistance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009 , 74, 96-102 | 6 | 32 |

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| 125 | Intramyocardial injection of a fully synthetic hydrogel attenuates left ventricular remodeling post myocardial infarction. <i>Biomaterials</i> , 2019 , 217, 119289 | 15.6 | 31 |
| 124 | Tailoring the degradation rates of thermally responsive hydrogels designed for soft tissue injection by varying the autocatalytic potential. <i>Biomaterials</i> , 2015 , 53, 484-93 | 15.6 | 31 |
| 123 | Hollow fiber membrane modification with functional zwitterionic macromolecules for improved thromboresistance in artificial lungs. <i>Langmuir</i> , 2015 , 31, 2463-71 | 4 | 31 |
| 122 | Evaluation of the stromal vascular fraction of adipose tissue as the basis for a stem cell-based tissue-engineered vascular graft. <i>Journal of Vascular Surgery</i> , 2017 , 66, 883-890.e1 | 3.5 | 30 |
| 121 | Highly crystalline MP-1 hydroxylapatite coating. Part I: In vitro characterization and comparison to other plasma-sprayed hydroxylapatite coatings. <i>Clinical Oral Implants Research</i> , 1999 , 10, 245-56 | 4.8 | 30 |
| 120 | A biohybrid artificial lung prototype with active mixing of endothelialized microporous hollow fibers. <i>Biotechnology and Bioengineering</i> , 2010 , 106, 490-500 | 4.9 | 29 |
| 119 | Assessing acute platelet adhesion on opaque metallic and polymeric biomaterials with fiber optic microscopy. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 49, 460-8 | | 29 |
| 118 | Nanometer-sized extracellular matrix coating on polymer-based scaffold for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 94-103 | 5.4 | 29 |
| 117 | Fabrication of elastomeric scaffolds with curvilinear fibrous structures for heart valve leaflet engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3101-6 | 5.4 | 28 |
| 116 | Engineered fetal cardiac graft preserves its cardiomyocyte proliferation within postinfarcted myocardium and sustains cardiac function. <i>Tissue Engineering - Part A</i> , 2011 , 17, 585-96 | 3.9 | 28 |
| 115 | Assessment of hydraulic performance and biocompatibility of a MagLev centrifugal pump system designed for pediatric cardiac or cardiopulmonary support. <i>ASAIO Journal</i> , 2007 , 53, 771-7 | 3.6 | 28 |
| 114 | Thiol click modification of cyclic disulfide containing biodegradable polyurethane urea elastomers. <i>Biomacromolecules</i> , 2015 , 16, 1622-33 | 6.9 | 27 |
| 113 | Injectable, porous, biohybrid hydrogels incorporating decellularized tissue components for soft tissue applications. <i>Acta Biomaterialia</i> , 2018 , 73, 112-126 | 10.8 | 27 |
| 112 | Urinary bladder matrix promotes site appropriate tissue formation following right ventricle outflow tract repair. <i>Organogenesis</i> , 2013 , 9, 149-60 | 1.7 | 27 |
| 111 | Monocyte tissue factor expression and ongoing complement generation in ventricular assist device patients. <i>Annals of Thoracic Surgery</i> , 1998 , 65, 1071-6 | 2.7 | 27 |
| 110 | Optimization of ultrasound contrast agents with computational models to improve selection of ligands and binding strength. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 854-64 | 4.9 | 26 |
| 109 | Design optimization of blood shearing instrument by computational fluid dynamics. <i>Artificial Organs</i> , 2005 , 29, 482-9 | 2.6 | 26 |
| 108 | Highly crystalline MP-1 hydroxylapatite coating. Part II: In vivo performance on endosseous root implants in dogs. <i>Clinical Oral Implants Research</i> , 1999 , 10, 257-66 | 4.8 | 26 |

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|-----|--|------|----|
| 107 | Visualization and analysis of biomaterial-centered thrombus formation within a defined crevice under flow. <i>Biomaterials</i> , 2016 , 96, 72-83 | 15.6 | 26 |
| 106 | In vivo monitoring of structural and mechanical changes of tissue scaffolds by multi-modality imaging. <i>Biomaterials</i> , 2014 , 35, 7851-9 | 15.6 | 25 |
| 105 | Extracellular matrix fiber microarchitecture is region-specific in bicuspid aortic valve-associated ascending aortopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 151, 1718-1728.e5 | 1.5 | 24 |
| 104 | Effects of fabrication on the mechanics, microstructure and micromechanical environment of small intestinal submucosa scaffolds for vascular tissue engineering. <i>Journal of Biomechanics</i> , 2014 , 47, 2766-73 ⁹ | 2.9 | 24 |
| 103 | Skeletal muscle derived stem cells microintegrated into a biodegradable elastomer for reconstruction of the abdominal wall. <i>Biomaterials</i> , 2017 , 113, 31-41 | 15.6 | 24 |
| 102 | Active wrinkles to drive self-cleaning: A strategy for anti-thrombotic surfaces for vascular grafts. <i>Biomaterials</i> , 2019 , 192, 226-234 | 15.6 | 24 |
| 101 | Measurement of hemostatic indexes in conjunction with transcranial doppler sonography in patients with ventricular assist devices. <i>Stroke</i> , 1999 , 30, 2554-61 | 6.7 | 23 |
| 100 | Vascular endoluminal delivery of mesenchymal stem cells using acoustic radiation force. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1457-64 | 3.9 | 22 |
| 99 | Flow cytometric assays for quantifying activated ovine platelets. <i>Artificial Organs</i> , 2008 , 32, 136-45 | 2.6 | 22 |
| 98 | Abdominal wall reconstruction by a regionally distinct biocomposite of extracellular matrix digest and a biodegradable elastomer. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 748-61 ⁴ | 4.4 | 21 |
| 97 | Non-invasive and Non-destructive Characterization of Tissue Engineered Constructs Using Ultrasound Imaging Technologies: A Review. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 621-35 | 4.7 | 21 |
| 96 | Real time visualization and characterization of platelet deposition under flow onto clinically relevant opaque surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1303-11 | 5.4 | 20 |
| 95 | Reconstructing the lung. <i>Science</i> , 2010 , 329, 520-2 | 33.3 | 20 |
| 94 | Hemocompatibility assessment of carbonic anhydrase modified hollow fiber membranes for artificial lungs. <i>Artificial Organs</i> , 2010 , 34, 439-42 | 2.6 | 20 |
| 93 | A three-dimensional gel bioreactor for assessment of cardiomyocyte induction in skeletal muscle-derived stem cells. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 375-85 | 2.9 | 19 |
| 92 | Surface Modification of Electrospun Scaffolds for Endothelialization of Tissue-Engineered Vascular Grafts Using Human Cord Blood-Derived Endothelial Cells. <i>Journal of Clinical Medicine</i> , 2019 , 8, | 5.1 | 18 |
| 91 | Design of a Coupled Thermoresponsive Hydrogel and Robotic System for Postinfarct Biomaterial Injection Therapy. <i>Annals of Thoracic Surgery</i> , 2016 , 102, 780-786 | 2.7 | 18 |
| 90 | Ultrasound Molecular Imaging of Angiogenesis Using Vascular Endothelial Growth Factor-Conjugated Microbubbles. <i>Molecular Pharmaceutics</i> , 2017 , 14, 781-790 | 5.6 | 17 |

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|----|---|------|----|
| 89 | Large strain stimulation promotes extracellular matrix production and stiffness in an elastomeric scaffold model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 62, 619-635 | 4.1 | 17 |
| 88 | Biodegradable Zwitterionic Polymer Coatings for Magnesium Alloy Stents. <i>Langmuir</i> , 2019 , 35, 1421-1429 | 4.1 | 17 |
| 87 | Biocompatibility assessment of the first generation PediaFlow pediatric ventricular assist device. <i>Artificial Organs</i> , 2011 , 35, 9-21 | 2.6 | 17 |
| 86 | Spatial control of gene expression within a scaffold by localized inducer release. <i>Biomaterials</i> , 2011 , 32, 3062-71 | 15.6 | 17 |
| 85 | Flow cytometric assays to detect platelet activation and aggregation in device-implanted calves. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 312-21 | | 17 |
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