

Kevin E Healy

List of Publications by Year in descending order

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137
papers

12,076
citations

23567

58
h-index

27406

106
g-index

146
all docs

146
docs citations

146
times ranked

13885
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Metabolically driven maturation of human-induced-pluripotent-stem-cell-derived cardiac microtissues on microfluidic chips. <i>Nature Biomedical Engineering</i> , 2022, 6, 372-388. | 22.5 | 42 |
| 2 | Semisynthetic Hyaluronic Acid-Based Hydrogel Promotes Recovery of the Injured Tibialis Anterior Skeletal Muscle Form and Function. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1587-1599. | 5.2 | 25 |
| 3 | High-Throughput Discovery of Targeted, Minimally Complex Peptide Surfaces for Human Pluripotent Stem Cell Culture. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1344-1360. | 5.2 | 4 |
| 4 | In vitro safety "clinical trial" of the cardiac liability of drug polytherapy. <i>Clinical and Translational Science</i> , 2021, 14, 1155-1165. | 3.1 | 11 |
| 5 | Integrated Isogenic Human Induced Pluripotent Stem Cell-Based Liver and Heart Microphysiological Systems Predict Unsafe Drug-Drug Interaction. <i>Frontiers in Pharmacology</i> , 2021, 12, 667010. | 3.5 | 29 |
| 6 | Heart Muscle Microphysiological System for Cardiac Liability Prediction of Repurposed COVID-19 Therapeutics. <i>Frontiers in Pharmacology</i> , 2021, 12, 684252. | 3.5 | 12 |
| 7 | Isochoric supercooled preservation and revival of human cardiac microtissues. <i>Communications Biology</i> , 2021, 4, 1118. | 4.4 | 21 |
| 8 | Stem cell-based vascularization of microphysiological systems. <i>Stem Cell Reports</i> , 2021, 16, 2058-2075. | 4.8 | 12 |
| 9 | Hyaluronic Acid Macromer Molecular Weight Dictates the Biophysical Properties and in Vitro Cellular Response to Semisynthetic Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1135-1143. | 5.2 | 20 |
| 10 | Facile Macrocyclic Polyphenol Barrier Coatings for PDMS Microfluidic Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2001274. | 14.9 | 12 |
| 11 | A traceless linker for aliphatic amines that rapidly and quantitatively fragments after reduction. <i>Chemical Science</i> , 2020, 11, 8973-8980. | 7.4 | 15 |
| 12 | Maladaptive Contractility of 3D Human Cardiac Microtissues to Mechanical Nonuniformity. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901373. | 7.6 | 12 |
| 13 | Cardiac Microtissues: Maladaptive Contractility of 3D Human Cardiac Microtissues to Mechanical Nonuniformity (<i>Adv. Healthcare Mater.</i> 8/2020). <i>Advanced Healthcare Materials</i> , 2020, 9, 2070024. | 7.6 | 1 |
| 14 | Myocardial injection of a thermoresponsive hydrogel with reactive oxygen species scavenger properties improves border zone contractility. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1736-1746. | 4.0 | 16 |
| 15 | Identifying Drug Response by Combining Measurements of the Membrane Potential, the Cytosolic Calcium Concentration, and the Extracellular Potential in Microphysiological Systems. <i>Frontiers in Pharmacology</i> , 2020, 11, 569489. | 3.5 | 11 |
| 16 | Intramyocardial injection of a fully synthetic hydrogel attenuates left ventricular remodeling post myocardial infarction. <i>Biomaterials</i> , 2019, 217, 119289. | 11.4 | 54 |
| 17 | New Molecular Scaffolds for Fluorescent Voltage Indicators. <i>ACS Chemical Biology</i> , 2019, 14, 390-396. | 3.4 | 23 |
| 18 | Matrix-assisted cell transplantation for tissue vascularization. <i>Advanced Drug Delivery Reviews</i> , 2019, 146, 155-169. | 13.7 | 18 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | A combined hiPSC-derived endothelial cell and in vitro microfluidic platform for assessing biomaterial-based angiogenesis. <i>Biomaterials</i> , 2019, 194, 73-83. | 11.4 | 41 |
| 20 | Improved Computational Identification of Drug Response Using Optical Measurements of Human Stem Cell Derived Cardiomyocytes in Microphysiological Systems. <i>Frontiers in Pharmacology</i> , 2019, 10, 1648. | 3.5 | 39 |
| 21 | Actomyosin-Mediated Tension Orchestrates Uncoupled Respiration in Adipose Tissues. <i>Cell Metabolism</i> , 2018, 27, 602-615.e4. | 16.2 | 70 |
| 22 | Quantitatively characterizing drug-induced arrhythmic contractile motions of human stem cell-derived cardiomyocytes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1958-1970. | 3.3 | 5 |
| 23 | Gellan Gum Hydrogels with Enzyme-Sensitive Biodegradation and Endothelial Cell Biorecognition Sites. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700686. | 7.6 | 39 |
| 24 | Multivalent conjugates of basic fibroblast growth factor enhance <i>in vitro</i> proliferation and migration of endothelial cells. <i>Biomaterials Science</i> , 2018, 6, 1076-1083. | 5.4 | 24 |
| 25 | Generation of spatial-patterned early-developing cardiac organoids using human pluripotent stem cells. <i>Nature Protocols</i> , 2018, 13, 723-737. | 12.0 | 121 |
| 26 | Inversion and computational maturation of drug response using human stem cell derived cardiomyocytes in microphysiological systems. <i>Scientific Reports</i> , 2018, 8, 17626. | 3.3 | 41 |
| 27 | Contractile deficits in engineered cardiac microtissues as a result of MYBPC3 deficiency and mechanical overload. <i>Nature Biomedical Engineering</i> , 2018, 2, 955-967. | 22.5 | 82 |
| 28 | TGF- β 1/CD105 signaling controls vascular network formation within growth factor sequestering hyaluronic acid hydrogels. <i>PLoS ONE</i> , 2018, 13, e0194679. | 2.5 | 29 |
| 29 | WAT-on-a-chip: a physiologically relevant microfluidic system incorporating white adipose tissue. <i>Lab on A Chip</i> , 2017, 17, 1645-1654. | 6.0 | 93 |
| 30 | Navigating the Future of Cardiovascular Drug Development—Leveraging Novel Approaches to Drive Innovation and Drug Discovery: Summary of Findings from the Novel Cardiovascular Therapeutics Conference. <i>Cardiovascular Drugs and Therapy</i> , 2017, 31, 445-458. | 2.6 | 8 |
| 31 | A Bioengineering Approach to Myopia Control Tested in a Guinea Pig Model. , 2017, 58, 1875. | | 15 |
| 32 | sFlt Multivalent Conjugates Inhibit Angiogenesis and Improve Half-Life In Vivo. <i>PLoS ONE</i> , 2016, 11, e0155990. | 2.5 | 9 |
| 33 | Miniaturized iPS-Cell-Derived Cardiac Muscles for Physiologically Relevant Drug Response Analyses. <i>Scientific Reports</i> , 2016, 6, 24726. | 3.3 | 191 |
| 34 | Matrix metalloproteinase-13 mediated degradation of hyaluronic acid-based matrices orchestrates stem cell engraftment through vascular integration. <i>Biomaterials</i> , 2016, 89, 136-147. | 11.4 | 60 |
| 35 | Application of 3D Printing for Smart Objects with Embedded Electronic Sensors and Systems. <i>Advanced Materials Technologies</i> , 2016, 1, 1600013. | 5.8 | 167 |
| 36 | Branching Analysis of Multivalent Conjugates Using Size Exclusion Chromatography—Multiangle Light Scattering. <i>Biomacromolecules</i> , 2016, 17, 3162-3171. | 5.4 | 7 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Drug-eluting biodegradable ureteral stent: New approach for urothelial tumors of upper urinary tract cancer. <i>International Journal of Pharmaceutics</i> , 2016, 513, 227-237. | 5.2 | 58 |
| 38 | Controlling integrin-based adhesion to a degradable electrospun fibre scaffold via SI-ATRP. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7314-7322. | 5.8 | 12 |
| 39 | Multivalent hyaluronic acid bioconjugates improve sFlt-1 activity in vitro. <i>Biomaterials</i> , 2016, 93, 95-105. | 11.4 | 25 |
| 40 | Tissue engineering strategies for promoting vascularized bone regeneration. <i>Bone</i> , 2016, 83, 197-209. | 2.9 | 145 |
| 41 | In vitro cardiac tissue models: Current status and future prospects. <i>Advanced Drug Delivery Reviews</i> , 2016, 96, 203-213. | 13.7 | 150 |
| 42 | 1/4Organo: A Lego®-Like Plug & Play System for Modular Multi-Organ-Chips. <i>PLoS ONE</i> , 2015, 10, e0139587. | 2.5 | 94 |
| 43 | Human iPSC-based Cardiac Microphysiological System For Drug Screening Applications. <i>Scientific Reports</i> , 2015, 5, 8883. | 3.3 | 411 |
| 44 | Why regenerative medicine needs an extracellular matrix. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 3-7. | 3.1 | 27 |
| 45 | Enhanced survival and engraftment of transplanted stem cells using growth factor sequestering hydrogels. <i>Biomaterials</i> , 2015, 47, 1-12. | 11.4 | 97 |
| 46 | Directing cell migration and organization via nanocrater-patterned cell-repellent interfaces. <i>Nature Materials</i> , 2015, 14, 918-923. | 27.5 | 159 |
| 47 | Multivalent Conjugates of Sonic Hedgehog Accelerate Diabetic Wound Healing. <i>Tissue Engineering - Part A</i> , 2015, 21, 2366-2378. | 3.1 | 14 |
| 48 | Self-organizing human cardiac microchambers mediated by geometric confinement. <i>Nature Communications</i> , 2015, 6, 7413. | 12.8 | 167 |
| 49 | Molecular weight and concentration of heparin in hyaluronic acid-based matrices modulates growth factor retention kinetics and stem cell fate. <i>Journal of Controlled Release</i> , 2015, 209, 308-316. | 9.9 | 65 |
| 50 | Low Fouling Electrospun Scaffolds with Clicked Bioactive Peptides for Specific Cell Attachment. <i>Biomacromolecules</i> , 2015, 16, 2109-2118. | 5.4 | 18 |
| 51 | Matrix-Assisted Transplantation of Functional Beige Adipose Tissue. <i>Diabetes</i> , 2015, 64, 3713-3724. | 0.6 | 47 |
| 52 | Automated Video-Based Analysis of Contractility and Calcium Flux in Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes Cultured over Different Spatial Scales. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 467-479. | 2.1 | 232 |
| 53 | Controlling Osteogenic Stem Cell Differentiation via Soft Bioinspired Hydrogels. <i>PLoS ONE</i> , 2014, 9, e98640. | 2.5 | 35 |
| 54 | The effect of multivalent Sonic hedgehog on differentiation of human embryonic stem cells into dopaminergic and GABAergic neurons. <i>Biomaterials</i> , 2014, 35, 941-948. | 11.4 | 52 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Physiologically relevant organs on chips. <i>Biotechnology Journal</i> , 2014, 9, 16-27. | 3.5 | 109 |
| 56 | Calcium Transients Closely Reflect Prolonged Action Potentials in iPSC Models of Inherited Cardiac Arrhythmia. <i>Stem Cell Reports</i> , 2014, 3, 269-281. | 4.8 | 106 |
| 57 | Three-dimensional filamentous human diseased cardiac tissue model. <i>Biomaterials</i> , 2014, 35, 1367-1377. | 11.4 | 102 |
| 58 | Multivalent ligands control stem cell behaviour in vitro and in vivo. <i>Nature Nanotechnology</i> , 2013, 8, 831-838. | 31.5 | 97 |
| 59 | Human induced pluripotent stem cell-based microphysiological tissue models of myocardium and liver for drug development. <i>Stem Cell Research and Therapy</i> , 2013, 4, S14. | 5.5 | 48 |
| 60 | Effect of avidin-like proteins and biotin modification on mesenchymal stem cell adhesion. <i>Biomaterials</i> , 2013, 34, 3758-3762. | 11.4 | 11 |
| 61 | Designing Tunable Artificial Matrices for Stem Cell Culture. , 2013, , 927-935. | | 0 |
| 62 | Engineering the Emergence of Stem Cell Therapeutics. <i>Science Translational Medicine</i> , 2013, 5, 207ed17. | 12.4 | 19 |
| 63 | Molecular Characterization of Multivalent Bioconjugates by Size-Exclusion Chromatography with Multiangle Laser Light Scattering. <i>Bioconjugate Chemistry</i> , 2012, 23, 1794-1801. | 3.6 | 20 |
| 64 | Stem Cells and Regenerative Medicine for Treating Damaged Myocardium. , 2012, , 1-24. | | 0 |
| 65 | Chemical Patterning of Ultrathin Polymer Films by Direct-Write Multiphoton Lithography. <i>Journal of the American Chemical Society</i> , 2011, 133, 6138-6141. | 13.7 | 46 |
| 66 | Engineered polymer-media interfaces for the long-term self-renewal of human embryonic stem cells. <i>Biomaterials</i> , 2011, 32, 6912-6919. | 11.4 | 104 |
| 67 | Exploiting bacterial peptide display technology to engineer biomaterials for neural stem cell culture. <i>Biomaterials</i> , 2011, 32, 1484-1494. | 11.4 | 37 |
| 68 | Designing Tunable Artificial Matrices for Stem Cell Culture. , 2011, , 717-728. | | 2 |
| 69 | Mechanical and swelling characterization of poly(N-isopropyl acrylamide -co- methoxy poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlor | 8.3 | 49 |
| 70 | The effect of micronscale anisotropic cross patterns on fibroblast migration. <i>Biomaterials</i> , 2010, 31, 4286-4295. | 11.4 | 106 |
| 71 | Biomimetic matrices for myocardial stabilization and stem cell transplantation. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 1055-1066. | 4.0 | 76 |
| 72 | Neural stem cell adhesion and proliferation on phospholipid bilayers functionalized with RGD peptides. <i>Biomaterials</i> , 2010, 31, 8706-8715. | 11.4 | 89 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Biophysics and dynamics of natural and engineered stem cell microenvironments. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 49-64. | 6.6 | 55 |
| 74 | Scleral Reinforcement Through Host Tissue Integration with Biomimetic Enzymatically Degradable Semi-Interpenetrating Polymer Network. Tissue Engineering - Part A, 2010, 16, 905-916. | 3.1 | 15 |
| 75 | Surface Creasing Instability of Soft Polyacrylamide Cell Culture Substrates. Biophysical Journal, 2010, 99, L94-L96. | 0.5 | 72 |
| 76 | Characterization of integrin engagement during defined human embryonic stem cell culture. FASEB Journal, 2010, 24, 1056-1065. | 0.5 | 102 |
| 77 | Temporal Gene Expression Profiling during Rat Femoral Marrow Ablation-Induced Intramembranous Bone Regeneration. PLoS ONE, 2010, 5, e12987. | 2.5 | 45 |
| 78 | Controlling biological interfaces on the nanometer length scale. Journal of Biomedical Materials Research - Part A, 2009, 90A, 1252-1261. | 4.0 | 54 |
| 79 | Cells nourished by nanodrops. Nature Materials, 2009, 8, 700-702. | 27.5 | 4 |
| 80 | Characterization of Matrigel interfaces during defined human embryonic stem cell culture. Biointerphases, 2009, 4, 69-79. | 1.6 | 71 |
| 81 | Biomimetic and Bio-responsive Materials in Regenerative Medicine. , 2009, , 1-58. | | 4 |
| 82 | Substrate Modulus Directs Neural Stem Cell Behavior. Biophysical Journal, 2008, 95, 4426-4438. | 0.5 | 947 |
| 83 | Multivalency of Sonic Hedgehog Conjugated to Linear Polymer Chains Modulates Protein Potency. Bioconjugate Chemistry, 2008, 19, 806-812. | 3.6 | 50 |
| 84 | Engineering Biomaterials for Synthetic Neural Stem Cell Microenvironments. Chemical Reviews, 2008, 108, 1787-1796. | 47.7 | 95 |
| 85 | Peri-implant bone formation and implant integration strength of peptide-modified p(AAM-co-EG/AAC) interpenetrating polymer network-coated titanium implants. Journal of Biomedical Materials Research - Part A, 2007, 80A, 306-320. | 4.0 | 46 |
| 86 | Biomimetic interfacial interpenetrating polymer networks control neural stem cell behavior. Journal of Biomedical Materials Research - Part A, 2007, 81A, 240-249. | 4.0 | 97 |
| 87 | The effect of enzymatically degradable IPN coatings on peri-implant bone formation and implant fixation. Journal of Biomedical Materials Research - Part A, 2007, 81A, 720-727. | 4.0 | 22 |
| 88 | Regulation of endothelial cell function by GRGDSP peptide grafted on interpenetrating polymers. Journal of Biomedical Materials Research - Part A, 2007, 83A, 423-433. | 4.0 | 40 |
| 89 | Immobilized sonic hedgehog N-terminal signaling domain enhances differentiation of bone marrow-derived mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2007, 83A, 1200-1208. | 4.0 | 41 |
| 90 | Designing synthetic materials to control stem cell phenotype. Current Opinion in Chemical Biology, 2007, 11, 381-387. | 6.1 | 208 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91 | Bioelectrocatalytic self-assembled thylakoids for micro-power and sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 480-487. | 7.8 | 42 |
| 92 | Hydrogels as artificial matrices for human embryonic stem cell self-renewal. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 1-5. | 4.0 | 141 |
| 93 | Biomimetic artificial ECMs stimulate bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 815-826. | 4.0 | 63 |
| 94 | In vitro characterization of peptide-modified p(AAm-co-EG/AAc) IPN-coated titanium implants. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1366-1376. | 2.3 | 37 |
| 95 | Theoretical Impact of the Injection of Material Into the Myocardium. <i>Circulation</i> , 2006, 114, 2627-2635. | 1.6 | 279 |
| 96 | Ligand density characterization of peptide-modified biomaterials. <i>Biomaterials</i> , 2005, 26, 6897-6905. | 11.4 | 33 |
| 97 | Synthetic MMP-13 degradable ECMs based on poly(N-isopropylacrylamide-co-acrylic acid) semi-interpenetrating polymer networks. I. Degradation and cell migration. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 73-88. | 4.0 | 121 |
| 98 | The effect of ligand type and density on osteoblast adhesion, proliferation, and matrix mineralization. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 855-869. | 4.0 | 103 |
| 99 | Analysis of sterilization protocols for peptide-modified hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 74B, 440-447. | 3.4 | 49 |
| 100 | Inhibition of macrophage development and foreign body giant cell formation by hydrophilic interpenetrating polymer network. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 69A, 644-650. | 3.1 | 46 |
| 101 | Poly(N-isopropylacrylamide)-based semi-interpenetrating polymer networks for tissue engineering applications. Effects of linear poly(acrylic acid) chains on rheology. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004, 15, 865-878. | 3.5 | 32 |
| 102 | Patterning, Prestress, and Peeling Dynamics of Myocytes. <i>Biophysical Journal</i> , 2004, 86, 1209-1222. | 0.5 | 48 |
| 103 | Peptide-modified p(AAm-co-EG/AAc) IPNs grafted to bulk titanium modulate osteoblast behavior in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 64A, 38-47. | 3.1 | 92 |
| 104 | Nanoparticulate DNA Packaging Using Terpolymers of Poly(lysine-g-(lactide-b-ethylene glycol)). <i>Bioconjugate Chemistry</i> , 2003, 14, 311-319. | 3.6 | 53 |
| 105 | Axisymmetric Adhesion Test To Examine the Interfacial Interactions between Biologically-Modified Networks and Models of the Extracellular Matrix. <i>Langmuir</i> , 2003, 19, 1853-1860. | 3.5 | 13 |
| 106 | Synthesis and Characterization of Injectable Poly(N-isopropylacrylamide-co-acrylic acid) Hydrogels with Proteolytically Degradable Cross-Links. <i>Biomacromolecules</i> , 2003, 4, 1214-1223. | 5.4 | 306 |
| 107 | The role of $\alpha 3 \beta 1$ integrin in determining the supramolecular organization of laminin-5 in the extracellular matrix of keratinocytes. <i>Experimental Cell Research</i> , 2003, 283, 67-79. | 2.6 | 66 |
| 108 | Micropatterns of Chemisorbed Cell Adhesion-Repellent Films Using Oxygen Plasma Etching and Elastomeric Masks. <i>Langmuir</i> , 2003, 19, 4754-4764. | 3.5 | 153 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Engineering gene expression and protein synthesis by modulation of nuclear shape. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1972-1977. | 7.1 | 454 |
| 110 | Poly(N-isopropylacrylamide)-Based Semi-interpenetrating Polymer Networks for Tissue Engineering Applications. 1. Effects of Linear Poly(acrylic acid) Chains on Phase Behavior. Biomacromolecules, 2002, 3, 591-600. | 5.4 | 91 |
| 111 | Sequential robust design methodology and X-ray photoelectron spectroscopy to analyze the grafting of hyaluronic acid to glass substrates. Journal of Biomedical Materials Research Part B, 2002, 61, 391-398. | 3.1 | 42 |
| 112 | Thermo-Responsive Peptide-Modified Hydrogels for Tissue Regeneration. Biomacromolecules, 2001, 2, 185-194. | 5.4 | 245 |
| 113 | A system to impose prescribed homogenous strains on cultured cells. Journal of Applied Physiology, 2001, 91, 1600-1610. | 2.5 | 31 |
| 114 | Surface chemistry control of monocyte and macrophage adhesion, morphology, and fusion. , 2000, 49, 141-145. | | 25 |
| 115 | Protein adsorption and cell attachment to patterned surfaces. Journal of Biomedical Materials Research Part B, 2000, 49, 200-210. | 3.1 | 140 |
| 116 | The effect of peptide surface density on mineralization of a matrix deposited by osteogenic cells. Journal of Biomedical Materials Research Part B, 2000, 52, 595-600. | 3.1 | 164 |
| 117 | A biodegradable polymer scaffold for delivery of osteotropic factors. Biomaterials, 2000, 21, 2545-2551. | 11.4 | 183 |
| 118 | Specific Amelogenin Gene Splice Products Have Signaling Effects on Cells in Culture and in Implants in Vivo. Journal of Biological Chemistry, 2000, 275, 41263-41272. | 3.4 | 222 |
| 119 | Protein adsorption and cell attachment to patterned surfaces. Journal of Biomedical Materials Research Part B, 2000, 49, 200-210. | 3.1 | 5 |
| 120 | Biomimetic Peptide Surfaces That Regulate Adhesion, Spreading, Cytoskeletal Organization, and Mineralization of the Matrix Deposited by Osteoblast-like Cells. Biotechnology Progress, 1999, 15, 19-32. | 2.6 | 311 |
| 121 | Designing Biomaterials to Direct Biological Responses. Annals of the New York Academy of Sciences, 1999, 875, 24-35. | 3.8 | 159 |
| 122 | Integrin subunits responsible for adhesion of human osteoblast-like cells to biomimetic peptide surfaces. Journal of Orthopaedic Research, 1999, 17, 615-623. | 2.3 | 138 |
| 123 | Bioactivation of Metal Oxide Surfaces. 1. Surface Characterization and Cell Response. Langmuir, 1999, 15, 6931-6939. | 3.5 | 164 |
| 124 | Molecular engineering of materials for bioreactivity. Current Opinion in Solid State and Materials Science, 1999, 4, 381-387. | 11.5 | 67 |
| 125 | Synthesis and Characterization of Injectable Poly(N-isopropylacrylamide)-Based Hydrogels That Support Tissue Formation in Vitro. Macromolecules, 1999, 32, 7370-7379. | 4.8 | 335 |
| 126 | A probabilistic approach to measure the strength of bone cell adhesion to chemically modified surfaces. Annals of Biomedical Engineering, 1997, 25, 190-203. | 2.5 | 44 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 127 | The role of vitronectin in the attachment and spatial distribution of bone-derived cells on materials with patterned surface chemistry. <i>Journal of Biomedical Materials Research Part B</i> , 1997, 37, 81-93. | 3.1 | 149 |
| 128 | The detachment strength and morphology of bone cells contacting materials modified with a peptide sequence found within bone sialoprotein. , 1997, 37, 9-19. | | 170 |
| 129 | The role of vitronectin in the attachment and spatial distribution of bone-derived cells on materials with patterned surface chemistry. , 1997, 37, 81. | | 1 |
| 130 | Kinetics of bone cell organization and mineralization on materials with patterned surface chemistry. <i>Biomaterials</i> , 1996, 17, 195-208. | 11.4 | 244 |
| 131 | Spatial distribution of mammalian cells dictated by material surface chemistry. <i>Biotechnology and Bioengineering</i> , 1994, 43, 792-800. | 3.3 | 101 |
| 132 | A versatile technique for patterning biomolecules onto glass coverslips. <i>Journal of Neuroscience Methods</i> , 1993, 50, 385-397. | 2.5 | 141 |
| 133 | Hydration and preferential molecular adsorption on titanium in vitro. <i>Biomaterials</i> , 1992, 13, 553-561. | 11.4 | 243 |
| 134 | The mechanisms of passive dissolution of titanium in a model physiological environment. <i>Journal of Biomedical Materials Research Part B</i> , 1992, 26, 319-338. | 3.1 | 188 |
| 135 | Osteogenic Cell Attachment to Degradable Polymers. <i>Materials Research Society Symposia Proceedings</i> , 1991, 252, 109. | 0.1 | 16 |
| 136 | The effect of plasma-sprayed calcium phosphate ceramic coatings on the metal ion release from porous titanium and cobalt-chromium alloys. <i>Journal of Biomedical Materials Research Part B</i> , 1988, 22, 1137-1163. | 3.1 | 129 |
| 137 | Quantitatively Characterizing Drug-Induced Arrhythmic Contractile Motions of Human Stem Cell-Derived Cardiomyocytes. <i>Biotechnology and Bioengineering</i> , 0, , . | 3.3 | 0 |