

Hyunjoon Kong

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.

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|--------------------|-------------------------|----------------|-----------------|
| 137 papers | 3,482 citations | 33 h-index | 53 g-index |
| 148 ext. papers | 4,181 ext. citations | 9.3 avg, IF | 5.48 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 137 | Three-dimensional photopatterning of hydrogels using stereolithography for long-term cell encapsulation. <i>Lab on A Chip</i> , 2010 , 10, 2062-70 | 7.2 | 347 |
| 136 | Development of miniaturized walking biological machines. <i>Scientific Reports</i> , 2012 , 2, 857 | 4.9 | 147 |
| 135 | Multi-material bio-fabrication of hydrogel cantilevers and actuators with stereolithography. <i>Lab on A Chip</i> , 2012 , 12, 88-98 | 7.2 | 125 |
| 134 | A cell-instructive hydrogel to regulate malignancy of 3D tumor spheroids with matrix rigidity. <i>Biomaterials</i> , 2011 , 32, 9308-15 | 15.6 | 117 |
| 133 | Stereolithography-Based Hydrogel Microenvironments to Examine Cellular Interactions. <i>Advanced Functional Materials</i> , 2011 , 21, 3642-3651 | 15.6 | 95 |
| 132 | High-Resolution Projection Microstereolithography for Patterning of Neovasculature. <i>Advanced Healthcare Materials</i> , 2016 , 5, 610-9 | 10.1 | 87 |
| 131 | NeuronMuscle Interfaces: Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction (Adv. Sci. 6/2019). <i>Advanced Science</i> , 2019 , 6, 1970032 | 13.6 | 78 |
| 130 | Decoupled control of stiffness and permeability with a cell-encapsulating poly(ethylene glycol) dimethacrylate hydrogel. <i>Biomaterials</i> , 2010 , 31, 4864-71 | 15.6 | 76 |
| 129 | Hydrogels for in vivo-like three-dimensional cellular studies. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012 , 4, 351-65 | 6.6 | 72 |
| 128 | Biodegradable Polymer Crosslinker: Independent Control of Stiffness, Toughness, and Hydrogel Degradation Rate. <i>Advanced Functional Materials</i> , 2009 , 19, 3056-3062 | 15.6 | 71 |
| 127 | Engineering Polymersomes for Diagnostics and Therapy. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701276 | 17.1 | 67 |
| 126 | Non-Spherical Particles for Targeted Drug Delivery. <i>Chemical Engineering Science</i> , 2015 , 125, 20-24 | 4.4 | 62 |
| 125 | Leukocyte-mimicking stem cell delivery via in situ coating of cells with a bioactive hyperbranched polyglycerol. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8770-3 | 16.4 | 61 |
| 124 | "Living" microvascular stamp for patterning of functional neovessels; orchestrated control of matrix property and geometry. <i>Advanced Materials</i> , 2012 , 24, 58-63, 1 | 24 | 57 |
| 123 | Engineering the Surface of Therapeutic "Living" Cells. <i>Chemical Reviews</i> , 2018 , 118, 1664-1690 | 68.1 | 56 |
| 122 | Simvastatin reduces venous stenosis formation in a murine hemodialysis vascular access model. <i>Kidney International</i> , 2013 , 84, 338-52 | 9.9 | 51 |
| 121 | Reactive oxygen species-responsive drug delivery systems for the treatment of neurodegenerative diseases. <i>Biomaterials</i> , 2019 , 217, 119292 | 15.6 | 50 |

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| 120 | Matrix stiffness-modulated proliferation and secretory function of the airway smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L1125-35 | 5.8 | 49 |
| 119 | Tailoring hydrogel adhesion to polydimethylsiloxane substrates using polysaccharide glue. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6949-52 | 16.4 | 49 |
| 118 | A bio-inspired, microchanneled hydrogel with controlled spacing of cell adhesion ligands regulates 3D spatial organization of cells and tissue. <i>Biomaterials</i> , 2015 , 58, 26-34 | 15.6 | 47 |
| 117 | Integrative design of a poly(ethylene glycol)-poly(propylene glycol)-alginate hydrogel to control three dimensional biomineralization. <i>Biomaterials</i> , 2011 , 32, 2695-703 | 15.6 | 47 |
| 116 | In situ self-folding assembly of a multi-walled hydrogel tube for uniaxial sustained molecular release. <i>Advanced Materials</i> , 2013 , 25, 5568-73 | 24 | 46 |
| 115 | Clickable polyglycerol hyperbranched polymers and their application to gold nanoparticles and acid-labile nanocarriers. <i>Chemical Communications</i> , 2011 , 47, 1279-81 | 5.8 | 46 |
| 114 | Tuning the dependency between stiffness and permeability of a cell encapsulating hydrogel with hydrophilic pendant chains. <i>Acta Biomaterialia</i> , 2011 , 7, 3719-28 | 10.8 | 44 |
| 113 | A 3D-printed platform for modular neuromuscular motor units. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17015 | 7.7 | 43 |
| 112 | A polymeric fastener can easily functionalize liposome surfaces with gadolinium for enhanced magnetic resonance imaging. <i>ACS Nano</i> , 2013 , 7, 9599-610 | 16.7 | 40 |
| 111 | Matrix rigidity-modulated cardiovascular organoid formation from embryoid bodies. <i>PLoS ONE</i> , 2014 , 9, e94764 | 3.7 | 40 |
| 110 | Sequential delivery of dexamethasone and VEGF to control local tissue response for carbon nanotube fluorescence based micro-capillary implantable sensors. <i>Biomaterials</i> , 2009 , 30, 622-31 | 15.6 | 40 |
| 109 | Damage, Healing, and Remodeling in Optogenetic Skeletal Muscle Bioactuators. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700030 | 10.1 | 38 |
| 108 | In situ assembly of antifouling/bacterial silver nanoparticle-hydrogel composites with controlled particle release and matrix softening. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15359-67 | 9.5 | 38 |
| 107 | Biohybrid valveless pump-bot powered by engineered skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1543-1548 | 11.5 | 38 |
| 106 | Simulation and Fabrication of Stronger, Larger, and Faster Walking Biohybrid Machines. <i>Advanced Functional Materials</i> , 2018 , 28, 1801145 | 15.6 | 36 |
| 105 | Directed blood vessel growth using an angiogenic microfiber/microparticle composite patch. <i>Advanced Materials</i> , 2011 , 23, 3139-43 | 24 | 33 |
| 104 | Phase imaging with computational specificity (PICS) for measuring dry mass changes in sub-cellular compartments. <i>Nature Communications</i> , 2020 , 11, 6256 | 17.4 | 33 |
| 103 | Tailoring polymersome bilayer permeability improves enhanced permeability and retention effect for bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10821-9 | 9.5 | 32 |

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|-----|--|------|----|
| 102 | Potential lymphangiogenesis therapies: Learning from current antiangiogenesis therapies-A review. <i>Medicinal Research Reviews</i> , 2018 , 38, 1769-1798 | 14.4 | 31 |
| 101 | Enzymatically cross-linked injectable alginate-g-pyrrole hydrogels for neovascularization. <i>Journal of Controlled Release</i> , 2013 , 172, 30-37 | 11.7 | 31 |
| 100 | Epi-illumination gradient light interference microscopy for imaging opaque structures. <i>Nature Communications</i> , 2019 , 10, 4691 | 17.4 | 30 |
| 99 | Ellipsoidal Polyaspartamide Polymersomes with Enhanced Cell-Targeting Ability. <i>Advanced Functional Materials</i> , 2012 , 22, 3239-3246 | 15.6 | 30 |
| 98 | Tuning responsiveness and structural integrity of a pH responsive hydrogel using a poly(ethylene glycol) cross-linker. <i>Soft Matter</i> , 2010 , 6, 3930 | 3.6 | 30 |
| 97 | 3D Printed Stem-Cell-Laden, Microchanneled Hydrogel Patch for the Enhanced Release of Cell-Secreting Factors and Treatment of Myocardial Infarctions. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1980-1987 | 5.5 | 29 |
| 96 | Self-Assembled, Biodegradable Magnetic Resonance Imaging Agents: Organic Radical-Functionalized Diblock Copolymers. <i>ACS Macro Letters</i> , 2017 , 6, 176-180 | 6.6 | 29 |
| 95 | Bioinspired tuning of hydrogel permeability-rigidity dependency for 3D cell culture. <i>Scientific Reports</i> , 2015 , 5, 8948 | 4.9 | 27 |
| 94 | Directed cell growth and alignment on protein-patterned 3D hydrogels with stereolithography. <i>Virtual and Physical Prototyping</i> , 2012 , 7, 219-228 | 10.1 | 26 |
| 93 | Three Dimensional Conjugation of Recombinant N-Cadherin to a Hydrogel for Anisotropic Neural Growth. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6803-6811 | 7.3 | 26 |
| 92 | Hydrophilic packaging of iron oxide nanoclusters for highly sensitive imaging. <i>Biomaterials</i> , 2015 , 69, 184-90 | 15.6 | 24 |
| 91 | The spatiotemporal control of erosion and molecular release from micropatterned poly(ethylene glycol)-based hydrogel. <i>Biomaterials</i> , 2013 , 34, 8416-23 | 15.6 | 22 |
| 90 | A liposome-based ion release impedance sensor for biological detection. <i>Biomedical Microdevices</i> , 2013 , 15, 895-905 | 3.7 | 22 |
| 89 | Disease-directed design of biodegradable polymers: Reactive oxygen species and pH-responsive micellar nanoparticles for anticancer drug delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 2666-2677 | 6 | 21 |
| 88 | The interplay between cell adhesion cues and curvature of cell adherent alginate microgels in multipotent stem cell culture. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2687-94 | 3.9 | 21 |
| 87 | Tuning the non-equilibrium state of a drug-encapsulated poly(ethylene glycol) hydrogel for stem and progenitor cell mobilization. <i>Biomaterials</i> , 2011 , 32, 2004-12 | 15.6 | 21 |
| 86 | Modulating the rigidity and mineralization of collagen gels using poly(lactic-co-glycolic acid) microparticles. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1642-51 | 3.9 | 21 |
| 85 | The role of Ix-1 in the pathogenesis of venous neointimal hyperplasia associated with hemodialysis arteriovenous fistula. <i>PLoS ONE</i> , 2014 , 9, e102542 | 3.7 | 20 |

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| 84 | Tuning structural durability of yeast-encapsulating alginate gel beads with interpenetrating networks for sustained bioethanol production. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 63-73 | 4.9 | 19 |
| 83 | Investigating the Life Expectancy and Proteolytic Degradation of Engineered Skeletal Muscle Biological Machines. <i>Scientific Reports</i> , 2017 , 7, 3775 | 4.9 | 17 |
| 82 | Functionalized ultrathin palladium nanosheets as patches for HepG2 cancer cells. <i>Chemical Communications</i> , 2015 , 51, 14171-14174 | 5.8 | 17 |
| 81 | Interplay of cell adhesion matrix stiffness and cell type for non-viral gene delivery. <i>Acta Biomaterialia</i> , 2012 , 8, 2612-9 | 10.8 | 17 |
| 80 | Characterization of mass and swelling of hydrogel microstructures using MEMS resonant mass sensor arrays. <i>Small</i> , 2012 , 8, 2555-62 | 11 | 17 |
| 79 | Water-Hydrogel Binding Affinity Modulates Freeze-Drying-Induced Micropore Architecture and Skeletal Myotube Formation. <i>Biomacromolecules</i> , 2015 , 16, 2255-64 | 6.9 | 16 |
| 78 | Surface tethering of stem cells with HO-responsive anti-oxidizing colloidal particles for protection against oxidation-induced death. <i>Biomaterials</i> , 2019 , 201, 1-15 | 15.6 | 16 |
| 77 | Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction. <i>Advanced Science</i> , 2019 , 6, 1801521 | 13.6 | 15 |
| 76 | Enhanced Condensation on Liquid-Infused Nanoporous Surfaces by Vibration-Assisted Droplet Sweeping. <i>ACS Nano</i> , 2020 , 14, 13367-13379 | 16.7 | 15 |
| 75 | Recapitulating cell-cell adhesion using N-cadherin biologically tethered to substrates. <i>Biomacromolecules</i> , 2014 , 15, 2172-9 | 6.9 | 14 |
| 74 | Top-down synthesis of versatile polyaspartamide linkers for single-step protein conjugation to materials. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2377-82 | 6.3 | 14 |
| 73 | Worm-Like Superparamagnetic Nanoparticle Clusters for Enhanced Adhesion and Magnetic Resonance Relaxivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1219-1225 | 9.5 | 13 |
| 72 | Glacier moraine formation-mimicking colloidal particle assembly in microchanneled, bioactive hydrogel for guided vascular network construction. <i>Advanced Healthcare Materials</i> , 2015 , 4, 195-201 | 10.1 | 13 |
| 71 | In situ assembly of the collagen-polyacrylamide interpenetrating network hydrogel: Enabling decoupled control of stiffness and degree of swelling. <i>European Polymer Journal</i> , 2015 , 72, 413-422 | 5.2 | 13 |
| 70 | Tailoring the dependency between rigidity and water uptake of a microfabricated hydrogel with the conformational rigidity of a polymer cross-linker. <i>Biomacromolecules</i> , 2013 , 14, 1361-9 | 6.9 | 13 |
| 69 | Active Antioxidizing Particles for On-Demand Pressure-Driven Molecular Release. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35642-35650 | 9.5 | 12 |
| 68 | Pericyte transplantation improves skeletal muscle recovery following hindlimb immobilization. <i>FASEB Journal</i> , 2019 , 33, 7694-7706 | 0.9 | 12 |
| 67 | Stretchable, anti-bacterial hydrogel activated by large mechanical deformation. <i>Journal of Controlled Release</i> , 2018 , 275, 1-11 | 11.7 | 12 |

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| 66 | A new design of dielectric elastomer membrane resonator with tunable resonant frequencies and mode shapes. <i>Smart Materials and Structures</i> , 2018 , 27, 065029 | 3.4 | 12 |
| 65 | 3D printing enables separation of orthogonal functions within a hydrogel particle. <i>Biomedical Microdevices</i> , 2016 , 18, 49 | 3.7 | 12 |
| 64 | Microfabrication of proangiogenic cell-laden alginate-g-pyrrole hydrogels. <i>Biomaterials</i> , 2012 , 33, 7718-26 | 3.6 | 12 |
| 63 | Stiffness-modulated water retention and neovascularization of dermal fibroblast-encapsulating collagen gel. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1275-84 | 3.9 | 12 |
| 62 | Bacteria-mimicking nanoparticle surface functionalization with targeting motifs. <i>Nanoscale</i> , 2015 , 7, 6737-44 | 7.7 | 11 |
| 61 | Material-mediated proangiogenic factor release pattern modulates quality of regenerated blood vessels. <i>Journal of Controlled Release</i> , 2014 , 196, 363-9 | 11.7 | 11 |
| 60 | Cross-linkable liposomes stabilize a magnetic resonance contrast-enhancing polymeric fastener. <i>Langmuir</i> , 2014 , 30, 3697-704 | 4 | 11 |
| 59 | Tuning hydrogel properties and function using substituent effects. <i>Soft Matter</i> , 2010 , 6, 2150-2152 | 3.6 | 11 |
| 58 | Electrothermal soft manipulator enabling safe transport and handling of thin cell/tissue sheets and bioelectronic devices. <i>Science Advances</i> , 2020 , 6, | 14.3 | 11 |
| 57 | Modulation of Matrix Softness and Interstitial Flow for 3D Cell Culture Using a Cell-Microenvironment-on-a-Chip System. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1968-1975 | 5.5 | 11 |
| 56 | Strain shifts under stress-controlled oscillatory shearing in theoretical, experimental, and structural perspectives: Application to probing zero-shear viscosity. <i>Journal of Rheology</i> , 2019 , 63, 863-881 | 4.1 | 10 |
| 55 | Comparative effects of N-cadherin protein and peptide fragments on mesenchymal stem cell mechanotransduction and paracrine function. <i>Biomaterials</i> , 2020 , 239, 119846 | 15.6 | 10 |
| 54 | Transparent and Flexible Electronics Assembled with Metallic Nanowire-Layered Nondrying Glycerogel. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13040-13050 | 9.5 | 10 |
| 53 | Protein adhesion regulated by the nanoscale surface conformation. <i>Soft Matter</i> , 2012 , 8, 11801 | 3.6 | 10 |
| 52 | Quantitative analysis of the cross-linked structure of microgels using fluorescent probes. <i>Polymer</i> , 2009 , 50, 5288-5292 | 3.9 | 10 |
| 51 | Chemical and mechanical modulation of polymeric micelle assembly. <i>Nanoscale</i> , 2017 , 9, 5194-5204 | 7.7 | 9 |
| 50 | Diatom Microbubbler for Active Biofilm Removal in Confined Spaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35685-35692 | 9.5 | 9 |
| 49 | Polyaspartamide Vesicle induced by Metallic Nanoparticles. <i>Soft Matter</i> , 2012 , 2012, 2237-2242 | 3.6 | 9 |

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| 48 | Fabrication of microgel-in-liposome particles with improved water retention. <i>Langmuir</i> , 2012 , 28, 4095-101 | 10.1 | 9 |
| 47 | 3-D biofabrication using stereolithography for biology and medicine. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6805-8 | 0.9 | 9 |
| 46 | Surface Tethering of Inflammation-Modulatory Nanostimulators to Stem Cells for Ischemic Muscle Repair. <i>ACS Nano</i> , 2020 , 14, 5298-5313 | 16.7 | 8 |
| 45 | A Photoresponsive Hydrogel with Enhanced Photoefficiency and the Decoupled Process of Light Activation and Shape Changing for Precise Geometric Control. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38647-38654 | 9.5 | 8 |
| 44 | 3D Printing of Biocompatible Shape-Memory Double Network Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12726-12734 | 9.5 | 8 |
| 43 | Graphene oxide substrates with N-cadherin stimulates neuronal growth and intracellular transport. <i>Acta Biomaterialia</i> , 2019 , 90, 412-423 | 10.8 | 7 |
| 42 | Proangiogenic alginate-g-pyrrole hydrogel with decoupled control of mechanical rigidity and electrically conductivity. <i>Biomaterials Research</i> , 2017 , 21, 24 | 16.8 | 7 |
| 41 | Effects of polymer architecture and charge density on the pH-responsive Ca(II) release from brushite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 459, 74-81 | 5.1 | 7 |
| 40 | Flow-mediated stem cell labeling with superparamagnetic iron oxide nanoparticle clusters. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10266-73 | 9.5 | 7 |
| 39 | Enzyme-Induced Matrix Softening Regulates Hepatocarcinoma Cancer Cell Phenotypes. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700117 | 5.5 | 7 |
| 38 | Generation of Cell-Instructive Collagen Gels through Thermodynamic Control. <i>ACS Macro Letters</i> , 2013 , 2, 1077-1081 | 6.6 | 7 |
| 37 | Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication. <i>Small</i> , 2019 , 15, e1900765 | 10.7 | 6 |
| 36 | van der Waals force-induced loading of proangiogenic nanoparticles on microbubbles for enhanced neovascularization. <i>Nanoscale</i> , 2015 , 7, 17139-47 | 7.7 | 6 |
| 35 | Polycation structure mediates expression of lyophilized polycation/pDNA complexes. <i>Macromolecular Bioscience</i> , 2010 , 10, 1210-5 | 5.5 | 6 |
| 34 | Poly(ethylene glycol)-poly(lactic-co-glycolic acid) core-shell microspheres with enhanced controllability of drug encapsulation and release rate. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015 , 26, 828-40 | 3.5 | 5 |
| 33 | Rupture force of cell adhesion ligand tethers modulates biological activities of a cell-laden hydrogel. <i>Chemical Communications</i> , 2016 , 52, 4757-60 | 5.8 | 5 |
| 32 | Tailoring Hydrogel Adhesion to Polydimethylsiloxane Substrates Using Polysaccharide Glue. <i>Angewandte Chemie</i> , 2013 , 125, 7087-7090 | 3.6 | 5 |
| 31 | The Cholesterol Metabolite 27HC Increases Secretion of Extracellular Vesicles Which Promote Breast Cancer Progression. <i>Endocrinology</i> , 2021 , 162, | 4.8 | 5 |

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| 30 | Spatial Organization of Superparamagnetic Iron Oxide Nanoparticles in/on Nano/Microsized Carriers Modulates the Magnetic Resonance Signal. <i>Langmuir</i> , 2018 , 34, 15276-15282 | 4 | 5 |
| 29 | Alginate Sulfates Mitigate Binding Kinetics of Proangiogenic Growth Factors with Receptors toward Revascularization. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2148-54 | 5.6 | 4 |
| 28 | Fabrication of cell penetrating peptide-conjugated bacterial cellulose nanofibrils with remarkable skin adhesion and water retention performance. <i>International Journal of Pharmaceutics</i> , 2021 , 600, 120476 | 6.5 | 4 |
| 27 | Vibration at structural resonance frequency of hydrophilic substrates enhances biofilm removal. <i>Sensors and Actuators B: Chemical</i> , 2019 , 299, 126950 | 8.5 | 3 |
| 26 | Effects of fluoride-modified titanium surfaces with the similar roughness on RUNX2 gene expression of osteoblast-like MG63 cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 3102-3109 | 5.4 | 3 |
| 25 | Matrix Softness-Mediated 3D Zebrafish Hepatocyte Modulates Response to Endocrine Disrupting Chemicals. <i>Environmental Science & Technology</i> , 2020 , 54, 13797-13806 | 10.3 | 3 |
| 24 | Decellularized Matrix Produced by Mesenchymal Stem Cells Modulates Growth and Metabolic Activity of Hepatic Cell Cluster. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 456-462 | 5.5 | 3 |
| 23 | Pore Diameter of Mesoporous Silica Modulates Oxidation of HO-Sensing Chromophore in a Porous Matrix. <i>Langmuir</i> , 2018 , 34, 11242-11252 | 4 | 3 |
| 22 | In Vivo Assessment of Engineered Skin Cell Delivery with Multimodal Optical Microscopy. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 434-442 | 2.9 | 2 |
| 21 | Surface tethering of stromal cell-derived factor-1 barriers to stem cells enhances cell homing to ischemic muscle. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 28, 102215 | 6 | 2 |
| 20 | Poly(ethylene glycol)-Mediated Collagen Gel Mechanics Regulates Cellular Phenotypes in a Microchanneled Matrix. <i>Biomacromolecules</i> , 2017 , 18, 2315-2323 | 6.9 | 2 |
| 19 | Catalytic microgelators for decoupled control of gelation rate and rigidity of the biological gels. <i>Journal of Controlled Release</i> , 2020 , 317, 166-180 | 11.7 | 2 |
| 18 | Preoperative vascular surgery model using a single polymer tough hydrogel with controllable elastic moduli. <i>Soft Matter</i> , 2020 , 16, 8057-8068 | 3.6 | 2 |
| 17 | Top-down synthesis of polyaspartamide morphogens to derive platinum nanoclusters. <i>Materials Letters</i> , 2016 , 168, 184-187 | 3.3 | 1 |
| 16 | Biomimetics: Simulation and Fabrication of Stronger, Larger, and Faster Walking Biohybrid Machines (Adv. Funct. Mater. 23/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870159 | 15.6 | 1 |
| 15 | Hydrogel Microstructures: Characterization of Mass and Swelling of Hydrogel Microstructures using MEMS Resonant Mass Sensor Arrays (Small 16/2012). <i>Small</i> , 2012 , 8, 2450-2450 | 11 | 1 |
| 14 | Biomaterials for Studies in Cellular Mechanotransduction 2011 , 267-277 | | 1 |
| 13 | Transcriptomic and physiological analysis of endocrine disrupting chemicals Impacts on 3D Zebrafish liver cell culture system.. <i>Aquatic Toxicology</i> , 2022 , 245, 106105 | 5.1 | 1 |

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| 12 | Hyperelastic model for polyacrylamide-gelatin double network shape-memory hydrogels. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 748-756 | 2 | 1 |
| 11 | Histatin-1 is an endogenous ligand of the sigma-2 receptor. <i>FEBS Journal</i> , 2021 , 288, 6815-6827 | 5.7 | 1 |
| 10 | Bioprinting: High-Resolution Projection Microstereolithography for Patterning of Neovasculature (Adv. Healthcare Mater. 5/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 622-622 | 10.1 | 1 |
| 9 | Balanced Effects of Surface Reactivity and Self-Association of Bifunctional Polyaspartamide on Stem Cell Adhesion. <i>ACS Omega</i> , 2017 , 2, 1333-1339 | 3.9 | 0 |
| 8 | The biofilm removal effect of MnO ₂ -diatom microbubbler from the dental prosthetic surfaces: In vitro study. <i>The Journal of Korean Academy of Prosthodontics</i> , 2020 , 58, 14 | 0.2 | 0 |
| 7 | Effects of mechanical properties of gelatin methacryloyl hydrogels on encapsulated stem cell spheroids for 3D tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2021 , 194, 903-903 | 7.9 | 0 |
| 6 | Shear-Resistant, Biological Tethering of Nanostimulators for Enhanced Therapeutic Cell Paracrine Factor Secretion. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17276-17288 | 9.5 | 0 |
| 5 | Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. <i>Biomaterials</i> , 2022 , 121610 | 15.6 | 0 |
| 4 | Antioxidants: Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication (Small 21/2019). <i>Small</i> , 2019 , 15, 1970112 | 11 | |
| 3 | Materials for biological modulation, sensing, and imaging. <i>MRS Bulletin</i> , 2014 , 39, 12-14 | 3.2 | |
| 2 | Hydrogels: In Situ Self-Folding Assembly of a Multi-Walled Hydrogel Tube for Uniaxial Sustained Molecular Release (Adv. Mater. 39/2013). <i>Advanced Materials</i> , 2013 , 25, 5522-5522 | 24 | |
| 1 | Biomaterials for Cell-Based Therapeutic Angiogenesis. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2013 , 247-259 | 0.5 | |