# Su Ryon Shin

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 140 papers | 15,129 citations | 58 h-index | 120 g-index |
| | | 23500 | 18075 |
| 144 all docs | 144 docs citations | 144 times ranked | 17562 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Carbon-Nanotube-Embedded Hydrogel Sheets for Engineering Cardiac Constructs and Bioactuators. ACS Nano, 2013, 7, 2369-2380. | 7.3 | 789 |
| 2 | Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. Biomaterials, 2016, 106, 58-68. | 5.7 | 727 |
| 3 | Carbon-Based Nanomaterials: Multifunctional Materials for Biomedical Engineering. ACS Nano, 2013, 7, 2891-2897. | 7.3 | 693 |
| 4 | Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Lowâ€Viscosity Bioink. Advanced Materials, 2016, 28, 677-684. | 11.1 | 677 |
| 5 | Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2293-E2302. | 3.3 | 570 |
| 6 | Graphene-based materials for tissue engineering. Advanced Drug Delivery Reviews, 2016, 105, 255-274. | 6.6 | 537 |
| 7 | 3D Bioprinting for Tissue and Organ Fabrication. Annals of Biomedical Engineering, 2017, 45, 148-163. | 1.3 | 507 |
| 8 | A liver-on-a-chip platform with bioprinted hepatic spheroids. Biofabrication, 2016, 8, 014101. | 3.7 | 466 |
| 9 | Injectable Graphene Oxide/Hydrogel-Based Angiogenic Gene Delivery System for Vasculogenesis and Cardiac Repair. ACS Nano, 2014, 8, 8050-8062. | 7.3 | 449 |
| 10 | Carbon Nanotube Reinforced Hybrid Microgels as Scaffold Materials for Cell Encapsulation. ACS Nano, 2012, 6, 362-372. | 7.3 | 400 |
| 11 | Reduced Graphene Oxideâ€GelMA Hybrid Hydrogels as Scaffolds for Cardiac Tissue Engineering. Small, 2016, 12, 3677-3689. | 5.2 | 385 |
| 12 | Bioprinted Osteogenic and Vasculogenic Patterns for Engineering 3D Bone Tissue. Advanced Healthcare Materials, 2017, 6, 1700015. | 3.9 | 310 |
| 13 | Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. Advanced Functional Materials, 2017, 27, 1605352. | 7.8 | 278 |
| 14 | Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting. Advanced Materials, 2018, 30, e1800242. | 11.1 | 277 |
| 15 | Rapid Continuous Multimaterial Extrusion Bioprinting. Advanced Materials, 2017, 29, 1604630. | 11.1 | 275 |
| 16 | 4D bioprinting: the next-generation technology for biofabrication enabled by stimuli-responsive materials. Biofabrication, 2017, 9, 012001. | 3.7 | 271 |
| 17 | Cellâ€laden Microengineered and Mechanically Tunable Hybrid Hydrogels of Gelatin and Graphene Oxide. Advanced Materials, 2013, 25, 6385-6391. | 11.1 | 266 |
| 18 | Tough and flexible CNTâ€“polymeric hybrid scaffolds for engineering cardiac constructs. Biomaterials, 2014, 35, 7346-7354. | 5.7 | 249 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Highly Elastic and Conductive Humanâ€Based Protein Hybrid Hydrogels. Advanced Materials, 2016, 28, 40-49. | 11.1 | 226 |
| 20 | In vitro and in vivo analysis of visible light crosslinkable gelatin methacryloyl (GelMA) hydrogels. Biomaterials Science, 2017, 5, 2093-2105. | 2.6 | 218 |
| 21 | A Bioactive Carbon Nanotubeâ€Based Ink for Printing 2D and 3D Flexible Electronics. Advanced Materials, 2016, 28, 3280-3289. | 11.1 | 199 |
| 22 | Nanocomposite Hydrogel with High Toughness for Bioactuators. Advanced Materials, 2009, 21, 1712-1715. | 11.1 | 197 |
| 23 | Multiscale bioprinting of vascularized models. Biomaterials, 2019, 198, 204-216. | 5.7 | 191 |
| 24 | Controlling Mechanical Properties of Cellâ€Laden Hydrogels by Covalent Incorporation of Graphene Oxide. Small, 2014, 10, 514-523. | 5.2 | 183 |
| 25 | Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. Analytical Chemistry, 2016, 88, 10019-10027. | 3.2 | 181 |
| 26 | Integrinâ€Mediated Interactions Control Macrophage Polarization in 3D Hydrogels. Advanced Healthcare Materials, 2017, 6, 1700289. | 3.9 | 169 |
| 27 | Surgical materials: Current challenges and nano-enabled solutions. Nano Today, 2014, 9, 574-589. | 6.2 | 158 |
| 28 | A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics. Advanced Functional Materials, 2018, 28, 1703437. | 7.8 | 152 |
| 29 | Layerâ€byâ€Layer Assembly of 3D Tissue Constructs with Functionalized Graphene. Advanced Functional Materials, 2014, 24, 6136-6144. | 7.8 | 151 |
| 30 | Spatially and temporally controlled hydrogels for tissue engineering. Materials Science and Engineering Reports, 2017, 119, 1-35. | 14.8 | 151 |
| 31 | Nanoengineered biomimetic hydrogels for guiding human stem cell osteogenesis in three dimensional microenvironments. Journal of Materials Chemistry B, 2016, 4, 3544-3554. | 2.9 | 149 |
| 32 | Aligned Carbon Nanotubeâ€“Based Flexible Gel Substrates for Engineering Biohybrid Tissue Actuators. Advanced Functional Materials, 2015, 25, 4486-4495. | 7.8 | 146 |
| 33 | Electrically Driven Microengineered Bioinspired Soft Robots. Advanced Materials, 2018, 30, 1704189. | 11.1 | 140 |
| 34 | Silver Nanoparticles-Composing Alginate/Gelatine Hydrogel Improves Wound Healing In Vivo. Nanomaterials, 2020, 10, 390. | 1.9 | 138 |
| 35 | Electrochemical actuation in chitosan/polyaniline microfibers for artificial muscles fabricated using an in situ polymerization. Sensors and Actuators B: Chemical, 2008, 129, 834-840. | 4.0 | 137 |
| 36 | Microfluidics-Assisted Fabrication of Gelatin-Silica Coreâ€“Shell Microgels for Injectable Tissue Constructs. Biomacromolecules, 2014, 15, 283-290. | 2.6 | 133 |

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|---|---|---|---|
| 37 | Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. Scientific Reports, 2016, 6, 24598. | 1.6 | 132 |
| 38 | Labelâ€Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes. Advanced Science, 2017, 4, 1600522. | 5.6 | 131 |
| 39 | Materials and technical innovations in 3D printing in biomedical applications. Journal of Materials Chemistry B, 2020, 8, 2930-2950. | 2.9 | 124 |
| 40 | Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. Sensors and Actuators B: Chemical, 2006, 115, 678-684. | 4.0 | 116 |
| 41 | Cold Water Fish Gelatin Methacryloyl Hydrogel for Tissue Engineering Application. PLoS ONE, 2016, 11, e0163902. | 1.1 | 115 |
| 42 | Strategies to use fibrinogen as bioink for 3D bioprinting fibrin-based soft and hard tissues. Acta Biomaterialia, 2020, 117, 60-76. | 4.1 | 115 |
| 43 | Nanoparticle-Based Hybrid Scaffolds for Deciphering the Role of Multimodal Cues in Cardiac Tissue Engineering. ACS Nano, 2019, 13, 12525-12539. | 7.3 | 101 |
| 44 | Tissue adhesives: From research to clinical translation. Nano Today, 2021, 36, 101049. | 6.2 | 90 |
| 45 | In Situ Printing of Adhesive Hydrogel Scaffolds for the Treatment of Skeletal Muscle Injuries. ACS Applied Bio Materials, 2020, 3, 1568-1579. | 2.3 | 86 |
| 46 | Engineered 3D Cardiac Fibrotic Tissue to Study Fibrotic Remodeling. Advanced Healthcare Materials, 2017, 6, 1601434. | 3.9 | 85 |
| 47 | Single Cell Microgel Based Modular Bioinks for Uncoupled Cellular Microâ€and Macroenvironments. Advanced Healthcare Materials, 2017, 6, 1600913. | 3.9 | 84 |
| 48 | Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. Nature Protocols, 2021, 16, 2564-2593. | 5.5 | 80 |
| 49 | Elastomeric free-form blood vessels for interconnecting organs on chip systems. Lab on A Chip, 2016, 16, 1579-1586. | 3.1 | 79 |
| 50 | Protein/polysaccharideâ€based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2018, 106, 769-781. | 2.1 | 79 |
| 51 | Engineering Smart Targeting Nanovesicles and Their Combination with Hydrogels for Controlled Drug Delivery. Pharmaceutics, 2020, 12, 849. | 2.0 | 75 |
| 52 | Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. Nano Letters, 2017, 17, 6235-6240. | 4.5 | 72 |
| 53 | Modular fabrication of intelligent material-tissue interfaces for bioinspired and biomimetic devices. Progress in Materials Science, 2019, 106, 100589. | 16.0 | 72 |
| 54 | A novel â€œdual modeâ€actuation in chitosan/polyaniline/carbon nanotube fibers. Sensors and Actuators B: Chemical, 2007, 121, 616-621. | 4.0 | 70 |

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|---|---|---|---|
| 55 | Chitin nanofiber micropatterned flexible substrates for tissue engineering. Journal of Materials Chemistry B, 2013, 1, 4217. | 2.9 | 68 |
| 56 | 3D Printed Cartilageâ€Like Tissue Constructs with Spatially Controlled Mechanical Properties. Advanced Functional Materials, 2019, 29, 1906330. | 7.8 | 66 |
| 57 | Lightâ€Controlled Growth Factors Release on Tetrapodal ZnOâ€Incorporated 3Dâ€Printed Hydrogels for Developing Smart Wound Scaffold. Advanced Functional Materials, 2021, 31, 2007555. | 7.8 | 65 |
| 58 | pH-Dependent Structures of an i-Motif DNA in Solution. Journal of Physical Chemistry B, 2009, 113, 1852-1856. | 1.2 | 64 |
| 59 | Hydrogel-Assisted Polyaniline Microfiber as Controllable Electrochemical Actuatable Supercapacitor. Journal of the Electrochemical Society, 2009, 156, A313. | 1.3 | 61 |
| 60 | A 3Dâ€Printed Hybrid Nasal Cartilage with Functional Electronic Olfaction. Advanced Science, 2020, 7, 1901878. | 5.6 | 61 |
| 61 | Swelling characterizations of chitosan and polyacrylonitrile semi-interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2003, 87, 2011-2015. | 1.3 | 58 |
| 62 | Synthesis and characteristics of a semi-interpenetrating polymer network based on chitosan/polyaniline under different pH conditions. Journal of Applied Polymer Science, 2005, 96, 867-873. | 1.3 | 57 |
| 63 | A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. Small, 2021, 17, e2004258. | 5.2 | 57 |
| 64 | Electromechanical properties of hydrogels based on chitosan and poly(hydroxyethyl methacrylate) in NaCl solution. Smart Materials and Structures, 2004, 13, 1036-1039. | 1.8 | 55 |
| 65 | Recent trends in gelatin methacryloyl nanocomposite hydrogels for tissue engineering. Journal of Biomedical Materials Research - Part A, 2022, 110, 708-724. | 2.1 | 55 |
| 66 | Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. Advanced Healthcare Materials, 2019, 8, e1801146. | 3.9 | 54 |
| 67 | Electrical response characterization of chitosan/polyacrylonitrile hydrogel in NaCl solutions. Journal of Applied Polymer Science, 2003, 90, 91-96. | 1.3 | 53 |
| 68 | DNA Hydrogel Fiber with Selfâ€Entanglement Prepared by Using an Ionic Liquid. Angewandte Chemie - International Edition, 2008, 47, 2470-2474. | 7.2 | 53 |
| 69 | Hydrogel Production Platform with Dynamic Movement Using Photo-Crosslinkable/Temperature Reversible Chitosan Polymer and Stereolithography 4D Printing Technology. Tissue Engineering and Regenerative Medicine, 2020, 17, 423-431. | 1.6 | 53 |
| 70 | A Foreign Body Responseâ€onâ€aâ€Chip Platform. Advanced Healthcare Materials, 2019, 8, e1801425. | 3.9 | 51 |
| 71 | Designing Gelatin Methacryloyl (GelMA)â€Based Bioinks for Visible Light Stereolithographic 3D Biofabrication. Macromolecular Bioscience, 2021, 21, e2000317. | 2.1 | 51 |
| 72 | Cell-microenvironment interactions and architectures in microvascular systems. Biotechnology Advances, 2016, 34, 1113-1130. | 6.0 | 49 |

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| 73 | Fullerene Attachment Enhances Performance of a DNA Nanomachine. Advanced Materials, 2009, 21, 1907-1910. | 11.1 | 48 |
| 74 | Marine Biomaterial-Based Bioinks for Generating 3D Printed Tissue Constructs. Marine Drugs, 2018, 16, 484. | 2.2 | 48 |
| 75 | Oxygen-Releasing Biomaterials: Current Challenges and Future Applications. Trends in Biotechnology, 2021, 39, 1144-1159. | 4.9 | 44 |
| 76 | Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardiumâ€onâ€aâ€Chip Application. Advanced Functional Materials, 2020, 30, 1907436. | 7.8 | 42 |
| 77 | Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cellâ€“based cartilage tissue engineering. Science Advances, 2020, 6, eaaz5913. | 4.7 | 42 |
| 78 | Injectable hydrogel derived from chitosan with tunable mechanical properties via hybrid-crosslinking system. Carbohydrate Polymers, 2021, 251, 117036. | 5.1 | 41 |
| 79 | Engineering bioactive synthetic polymers for biomedical applications: a review with emphasis on tissue engineering and controlled release. Materials Advances, 2021, 2, 4447-4478. | 2.6 | 40 |
| 80 | Kappa-Carrageenan-Based Dual Crosslinkable Bioink for Extrusion Type Bioprinting. Polymers, 2020, 12, 2377. | 2.0 | 38 |
| 81 | Tough Supersoft Sponge Fibers with Tunable Stiffness from a DNA Selfâ€Assembly Technique. Angewandte Chemie - International Edition, 2009, 48, 5116-5120. | 7.2 | 37 |
| 82 | Immune Organs and Immune Cells on a Chip: An Overview of Biomedical Applications. Micromachines, 2020, 11, 849. | 1.4 | 37 |
| 83 | Interconnectable Dynamic Compression Bioreactors for Combinatorial Screening of Cell Mechanobiology in Three Dimensions. ACS Applied Materials & Interfaces, 2018, 10, 13293-13303. | 4.0 | 36 |
| 84 | Biocompatible Carbon Nanotube-Based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications. ACS Applied Materials & Interfaces, 2019, 11, 20615-20627. | 4.0 | 36 |
| 85 | Synthesis of conducting polyaniline in semi-IPN based on chitosan. Synthetic Metals, 2005, 154, 213-216. | 2.1 | 35 |
| 86 | Synthesis and characteristics of polyelectrolyte complexes composed of chitosan and hyaluronic acid. Journal of Applied Polymer Science, 2004, 91, 2908-2913. | 1.3 | 32 |
| 87 | Toward a neurospheroid niche model: optimizing embedded 3D bioprinting for fabrication of neurospheroid brain-like co-culture constructs. Biofabrication, 2021, 13, 015014. | 3.7 | 32 |
| 88 | Electrical behavior of chitosan and poly(hydroxyethyl methacrylate) hydrogel in the contact system. Journal of Applied Polymer Science, 2004, 92, 915-919. | 1.3 | 31 |
| 89 | Synthesis and characteristics of semi-interpenetrating polymer network hydrogels based on chitosan and poly(hydroxy ethyl methacrylate). Journal of Applied Polymer Science, 2005, 96, 86-92. | 1.3 | 30 |
| 90 | Customizable Composite Fibers for Engineering Skeletal Muscle Models. ACS Biomaterials Science and Engineering, 2020, 6, 1112-1123. | 2.6 | 29 |

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|---|---|---|---|
| 91 | Synthesis and characterization of C2C12-laden gelatin methacryloyl (GelMA) from marine and mammalian sources. International Journal of Biological Macromolecules, 2021, 183, 918-926. | 3.6 | 29 |
| 92 | Enhanced actuation of PPy/CNT hybrid fibers using porous structured DNA hydrogel. Sensors and Actuators B: Chemical, 2010, 145, 89-92. | 4.0 | 28 |
| 93 | Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. Nano-Micro Letters, 2021, 13, 212. | 14.4 | 28 |
| 94 | Effects of electrically conductive nano-biomaterials on regulating cardiomyocyte behavior for cardiac repair and regeneration. Acta Biomaterialia, 2022, 139, 141-156. | 4.1 | 28 |
| 95 | Emerging Biopolymerâ€Based Bioadhesives. Macromolecular Bioscience, 2022, 22, e2100340. | 2.1 | 26 |
| 96 | A Dualâ€Layered Microfluidic System for Longâ€Term Controlled In Situ Delivery of Multiple Antiâ€Inflammatory Factors for Chronic Neural Applications. Advanced Functional Materials, 2018, 28, 1702009. | 7.8 | 25 |
| 97 | Ferritin Nanocage Conjugated Hybrid Hydrogel for Tissue Engineering and Drug Delivery Applications. ACS Biomaterials Science and Engineering, 2020, 6, 277-287. | 2.6 | 25 |
| 98 | Swelling Behavior of Semiâ€Interpenetrating Polymer Network Hydrogels Based on Chitosan and Poly(acryl amide). Journal of Macromolecular Science - Pure and Applied Chemistry, 2005, 42, 1073-1083. | 1.2 | 24 |
| 99 | Effect of C60 Fullerene on the Duplex Formation of i-Motif DNA with Complementary DNA in Solution. Journal of Physical Chemistry B, 2010, 114, 4783-4788. | 1.2 | 23 |
| 100 | Enhancement of the electromechanical behavior of IPMCs based on chitosan/polyaniline ion exchange membranes fabricated by freeze-drying. Smart Materials and Structures, 2005, 14, 889-894. | 1.8 | 21 |
| 101 | Thermal Characteristics of Polyelectrolyte Complexes Composed of Chitosan and Hyaluronic Acid. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 807-815. | 1.2 | 18 |
| 102 | Switchable redox activity by proton fuelled DNA nano-machines. Chemical Communications, 2009, , 1240. | 2.2 | 17 |
| 103 | Development of bentonite-gelatin nanocomposite hybrid hydrogels for tissue engineering. Applied Clay Science, 2020, 199, 105860. | 2.6 | 17 |
| 104 | Lymph node fibroblastic reticular cells deposit fibrosis-associated collagen following organ transplantation. Journal of Clinical Investigation, 2020, 130, 4182-4194. | 3.9 | 16 |
| 105 | Wirelessly Powered 3D Printed Hierarchical Biohybrid Robots with Multiscale Mechanical Properties. Advanced Functional Materials, 2022, 32, . | 7.8 | 16 |
| 106 | Platinum nanopetal-based potassium sensors for acute cell death monitoring. RSC Advances, 2016, 6, 40517-40526. | 1.7 | 15 |
| 107 | Flexible and Stretchable PEDOTâ€Embedded Hybrid Substrates for Bioengineering and Sensory Applications. ChemNanoMat, 2019, 5, 729-737. | 1.5 | 15 |
| 108 | Water and temperature response of semi-IPN hydrogels composed of chitosan and polyacrylonitrile. Journal of Applied Polymer Science, 2003, 88, 2721-2724. | 1.3 | 14 |

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| 109 | Delivery of Cargo with a Bioelectronic Trigger. ACS Applied Materials & Interfaces, 2018, 10, 21782-21787. | 4.0 | 13 |
| 110 | DNA-coated MWNT microfibers for electrochemical actuator. Sensors and Actuators B: Chemical, 2012, 162, 173-177. | 4.0 | 12 |
| 111 | pH-Responsive DNA Nanolinker Conjugated Hybrid Materials for Electrochemical Microactuator and Biosensor Applications. ACS Applied Nano Materials, 2018, 1, 6630-6640. | 2.4 | 11 |
| 112 | Suturable elastomeric tubular grafts with patterned porosity for rapid vascularization of 3D constructs. Biofabrication, 2021, 13, 035020. | 3.7 | 11 |
| 113 | 3D bioprinted human iPSC-derived somatosensory constructs with functional and highly purified sensory neuron networks. Biofabrication, 2021, 13, 035046. | 3.7 | 11 |
| 114 | Selection of natural biomaterials for <scp>microâ€tissue</scp> and <scp>organâ€onâ€chip</scp> models. Journal of Biomedical Materials Research - Part A, 2022, 110, 1147-1165. | 2.1 | 11 |
| 115 | A review on 3D printing functional brain model. Biomicrofluidics, 2022, 16, 011501. | 1.2 | 11 |
| 116 | Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Nonâ€Cellâ€Adhesive Materials. Advanced Materials, 2021, 33, e2102660. | 11.1 | 10 |
| 117 | Bioprinting: Rapid Continuous Multimaterial Extrusion Bioprinting (Adv. Mater. 3/2017). Advanced Materials, 2017, 29, . | 11.1 | 9 |
| 118 | Novel Cell-Based and Tissue Engineering Approaches for Induction of Angiogenesis as an Alternative Therapy for Diabetic Retinopathy. International Journal of Molecular Sciences, 2020, 21, 3496. | 1.8 | 8 |
| 119 | Cell-Laden Gelatin Methacryloyl Bioink for the Fabrication of Z-Stacked Hydrogel Scaffolds for Tissue Engineering. Polymers, 2020, 12, 3027. | 2.0 | 7 |
| 120 | Photo-Cross-Linkable Human Albumin Colloidal Gels Facilitate In Vivo Vascular Integration for Regenerative Medicine. ACS Omega, 2021, 6, 33511-33522. | 1.6 | 7 |
| 121 | Transcriptomic Mapping of Neural Diversity, Differentiation and Functional Trajectory in iPSC-Derived 3D Brain Organoid Models. Cells, 2021, 10, 3422. | 1.8 | 7 |
| 122 | Tissue Regeneration: A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics (Adv. Funct. Mater. 3/2018). Advanced Functional Materials, 2018, 28, 1870021. | 7.8 | 6 |
| 123 | Bioinspired Soft Robot with Incorporated Microelectrodes. Journal of Visualized Experiments, 2020, , . | 0.2 | 6 |
| 124 | Mimicking Native Heart Tissue Physiology and Pathology in Silk Fibroin Constructs through a Perfusionâ€Based Dynamic Mechanical Stimulation Microdevice. Advanced Healthcare Materials, 2022, 11, e2101678. | 3.9 | 6 |
| 125 | Bioprinting: Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Ov | 11.1 | 4 |
| 126 | Electrochemical pH Oscillations of Ethyl Viologen/Ionic Liquid. Langmuir, 2008, 24, 3562-3565. | 1.6 | 3 |

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|---|---|---|---|
| 127 | Biosensors: Labelâ€Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes (Adv. Sci. 5/2017). Advanced Science, 2017, 4, . | 5.6 | 3 |
| 128 | Tissue Engineering: Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 | 7.8 | 3 |
| 129 | Reversible Redox Activity by Ion-pH Dually Modulated Duplex Formation of i-Motif DNA with Complementary G-DNA. Nanomaterials, 2018, 8, 226. | 1.9 | 3 |
| 130 | 3D Printed Tissues: 3D Printed Cartilageâ€Like Tissue Constructs with Spatially Controlled Mechanical Properties (Adv. Funct. Mater. 51/2019). Advanced Functional Materials, 2019, 29, 1970350. | 7.8 | 3 |
| 131 | Characterization of Leptin Receptor+ Stromal Cells in Lymph Node. Frontiers in Immunology, 2021, 12, 730438. | 2.2 | 3 |
| 132 | Enzymeâ€Mediated Alleviation of Peroxide Toxicity in Selfâ€Oxygenating Biomaterials. Advanced Healthcare Materials, 2022, 11, e2102697. | 3.9 | 3 |
| 133 | Myocardial Tissue Engineering: Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardiumâ€onâ€aâ€Chip Application (Adv. Funct. Mater. 12/2020). Advanced Functional Materials, 2020, 30, 2070079. | 7.8 | 2 |
| 134 | Kidney-Draining Lymph Node Fibrosis Following Unilateral Ureteral Obstruction. Frontiers in Immunology, 2021, 12, 768412. | 2.2 | 2 |
| 135 | Fabrication of Polymeric Composite Nanostructures Containing Ferritin Nanoparticles and Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2006, 921, 1. | 0.1 | 1 |
| 136 | DNA Hybrid Nanomachines: Fullerene Attachment Enhances Performance of a DNA Nanomachine (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 | 11.1 | 0 |
| 137 | Macromol. Rapid Commun. 6/2009. Macromolecular Rapid Communications, 2009, 30, NA-NA. | 2.0 | 0 |
| 138 | Tissue Engineering: Engineered 3D Cardiac Fibrotic Tissue to Study Fibrotic Remodeling (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 | 3.9 | 0 |
| 139 | Organâ€onâ€aâ€Chip: A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). Small, 2021, 17, 2170070. | 5.2 | 0 |
| 140 | Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Nonâ€Cellâ€Adhesive Materials (Adv. Mater. 42/2021). Advanced Materials, 2021, 33, 2170333. | 11.1 | 0 |