

# Il Keun Kwon

## List of Publications by Year in descending order

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Version: 2024-02-01

171  
papers

9,119  
citations

34016

52  
h-index

46693

89  
g-index

172  
all docs

172  
docs citations

172  
times ranked

14066  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Electrospun nano- to microfiber fabrics made of biodegradable copolyesters: structural characteristics, mechanical properties and cell adhesion potential. <i>Biomaterials</i> , 2005, 26, 3929-3939.  | 5.7  | 553       |
| 2  | Smart polymeric gels: Redefining the limits of biomedical devices. <i>Progress in Polymer Science</i> , 2007, 32, 1083-1122.   | 11.8 | 538       |
| 3  | Analysis on the current status of targeted drug delivery to tumors. <i>Journal of Controlled Release</i> , 2012, 164, 108-114.   | 4.8  | 343       |
| 4  | Gold nanoparticles surface-functionalized with paclitaxel drug and biotin receptor as theranostic agents for cancer therapy. <i>Biomaterials</i> , 2012, 33, 856-866.  | 5.7  | 310       |
| 5  | Electrospun gelatin/polyurethane blended nanofibers for wound healing. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 044106.  | 1.7  | 228       |
| 6  | Hydrogels for delivery of bioactive agents: A historical perspective. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 17-20.   | 6.6  | 211       |
| 7  | Enhanced bone regeneration with a gold nanoparticle-hydrogel complex. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1584-1593.  | 2.9  | 205       |
| 8  | Co-Electrospun Nanofiber Fabrics of Poly(l-lactide-co- $\mu$ -caprolactone) with Type I Collagen or Heparin. <i>Biomacromolecules</i> , 2005, 6, 2096-2105.  | 2.6  | 200       |
| 9  | The effect of immobilization of heparin and bone morphogenic protein-2 (BMP-2) to titanium surfaces on inflammation and osteoblast function. <i>Biomaterials</i> , 2011, 32, 366-373.  | 5.7  | 189       |
| 10 | Surface modification of 3D-printed porous scaffolds via mussel-inspired polydopamine and effective immobilization of rhBMP-2 to promote osteogenic differentiation for bone tissue engineering. <i>Acta Biomaterialia</i> , 2016, 40, 182-191. | 4.1  | 175       |
| 11 | Mechanical Stretching for Tissue Engineering: Two-Dimensional and Three-Dimensional Constructs. <i>Tissue Engineering - Part B: Reviews</i> , 2012, 18, 288-300.   | 2.5  | 170       |
| 12 | Electrospun chitosan nanofibers with controlled levels of silver nanoparticles. Preparation, characterization and antibacterial activity. <i>Carbohydrate Polymers</i> , 2014, 111, 530-537.   | 5.1  | 164       |
| 13 | Stem cells in bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 062001.  | 1.7  | 163       |
| 14 | Elastic biodegradable poly(glycolide-co-caprolactone) scaffold for tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 66A, 29-37.  | 3.0  | 160       |
| 15 | The effect of gold nanoparticle size on osteogenic differentiation of adipose-derived stem cells. <i>Journal of Colloid and Interface Science</i> , 2015, 438, 68-76.  | 5.0  | 154       |
| 16 | Mechanical responses of a compliant electrospun poly(l-lactide-co- $\mu$ -caprolactone) small-diameter vascular graft. <i>Biomaterials</i> , 2006, 27, 1470-1478.  | 5.7  | 152       |
| 17 | Highly Porous Electrospun Nanofibers Enhanced by Ultrasonication for Improved Cellular Infiltration. <i>Tissue Engineering - Part A</i> , 2011, 17, 2695-2702.   | 1.6  | 144       |
| 18 | Photo-cured hyaluronic acid-based hydrogels containing simvastatin as a bone tissue regeneration scaffold. <i>Biomaterials</i> , 2011, 32, 8161-8171.  | 5.7  | 121       |

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|----|---|------|-----------|
| 19 | Skin-Integrated Wearable Systems and Implantable Biosensors: A Comprehensive Review. <i>Biosensors</i> , 2020, 10, 79.  | 2.3  | 120       |
| 20 | Inhibition of Osteoclast Differentiation by Gold Nanoparticles Functionalized with Cyclodextrin Curcumin Complexes. <i>ACS Nano</i> , 2014, 8, 12049-12062.   | 7.3  | 109       |
| 21 | Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a 3D printing system. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2996-2999.   | 1.3  | 104       |
| 22 | Antioxidants, like coenzyme Q10, selenite, and curcumin, inhibited osteoclast differentiation by suppressing reactive oxygen species generation. <i>Biochemical and Biophysical Research Communications</i> , 2012, 418, 247-253.                                     | 1.0  | 98        |
| 23 | Burn-Wound Healing Effect of Gelatin/Polyurethane Nanofiber Scaffold Containing Silver-Sulfadiazine. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 511-515.  | 0.5  | 96        |
| 24 | Spatially mineralized self-assembled polymeric nanocarriers with enhanced robustness and controlled drug-releasing property. <i>Chemical Communications</i> , 2010, 46, 377-379.  | 2.2  | 94        |
| 25 | Photo-cured hyaluronic acid-based hydrogels containing growth and differentiation factor 5 (GDF-5) for bone tissue regeneration. <i>Bone</i> , 2014, 59, 189-198.   | 1.4  | 90        |
| 26 | Structural features and mechanical properties of in situ-bonded meshes of segmented polyurethane electrospun from mixed solvents. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 76B, 219-229.                                 | 1.6  | 88        |
| 27 | Graphene quantum dot-based theranostic agents for active targeting of breast cancer. <i>RSC Advances</i> , 2017, 7, 11420-11427.  | 1.7  | 88        |
| 28 | Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 129-137.   | 5.0  | 87        |
| 29 | Surface Modification of Multipass Caliber-Rolled Ti Alloy with Dexamethasone-Loaded Graphene for Dental Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9598-9607.   | 4.0  | 82        |
| 30 | Extracellular Matrix Revisited: Roles in Tissue Engineering. <i>International Neurourology Journal</i> , 2016, 20, S23-29.  | 0.5  | 81        |
| 31 | Heparin coating on 3D printed poly (L-lactic acid) biodegradable cardiovascular stent via mild surface modification approach for coronary artery implantation. <i>Chemical Engineering Journal</i> , 2019, 378, 122116.   | 6.6  | 81        |
| 32 | 3D biosensors in advanced medical diagnostics of high mortality diseases. <i>Biosensors and Bioelectronics</i> , 2019, 130, 20-39.  | 5.3  | 76        |
| 33 | Mechano-active scaffold design of small-diameter artificial graft made of electrospun segmented polyurethane fabrics. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 73A, 125-131.  | 2.1  | 72        |
| 34 | Mechano-Active Scaffold Design Based on Microporous Poly(L-lactide-co- $\epsilon$ -caprolactone) for Articular Cartilage Tissue Engineering: Dependence of Porosity on Compression Force-Applied Mechanical Behaviors. <i>Tissue Engineering</i> , 2006, 12, 449-458. | 4.9  | 72        |
| 35 | Enhanced Light Absorption of Silicon Nanotube Arrays for Organic/Inorganic Hybrid Solar Cells. <i>Advanced Materials</i> , 2014, 26, 3445-3450.   | 11.1 | 72        |
| 36 | In situ gold nanoparticle growth on polydopamine-coated 3D-printed scaffolds improves osteogenic differentiation for bone tissue engineering applications: in vitro and in vivo studies. <i>Nanoscale</i> , 2018, 10, 15447-15453.                                    | 2.8  | 72        |

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|----|---|-----|-----------|
| 37 | Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. <i>Acta Biomaterialia</i> , 2016, 39, 25-33.   | 4.1 | 71        |
| 38 | In situ fabrication of alendronate-loaded calcium phosphate microspheres: Controlled release for inhibition of osteoclastogenesis. <i>Journal of Controlled Release</i> , 2010, 147, 45-53.   | 4.8 | 70        |
| 39 | Simvastatin inhibits osteoclast differentiation by scavenging reactive oxygen species. <i>Experimental and Molecular Medicine</i> , 2011, 43, 605.  | 3.2 | 69        |
| 40 | Osteoblastic and osteoclastic differentiation on <sc>SLA</sc> and hydrophilic modified <sc>SLA</sc> titanium surfaces. <i>Clinical Oral Implants Research</i> , 2014, 25, 831-837.  | 1.9 | 69        |
| 41 | In Situ Visualization of Paclitaxel Distribution and Release by Coherent Anti-Stokes Raman Scattering Microscopy. <i>Analytical Chemistry</i> , 2006, 78, 8036-8043.  | 3.2 | 67        |
| 42 | Inhibition of Osteoclast Differentiation and Bone Resorption by Bisphosphonate-conjugated Gold Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 27336.   | 1.6 | 67        |
| 43 | Flexible and Highly Biocompatible Nanofiber-Based Electrodes for Neural Surface Interfacing. <i>ACS Nano</i> , 2017, 11, 2961-2971.   | 7.3 | 62        |
| 44 | Photo-iniferter-based thermoresponsive block copolymers composed of poly(ethylene glycol) and poly(N-isopropylacrylamide) and chondrocyte immobilization. <i>Biomaterials</i> , 2006, 27, 986-995.  | 5.7 | 61        |
| 45 | Photo-polymerized microarchitectural constructs prepared by microstereolithography ( $\frac{1}{4}$ SL) using liquid acrylate-end-capped trimethylene carbonate-based prepolymers. <i>Biomaterials</i> , 2005, 26, 1675-1684.                              | 5.7 | 60        |
| 46 | Recent advances in quantum dots for biomedical applications. <i>Journal of Pharmaceutical Investigation</i> , 2018, 48, 209-214.  | 2.7 | 58        |
| 47 | Injectable hydrogel composite containing modified gold nanoparticles: implication in bone tissue regeneration. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7019-7031.   | 3.3 | 57        |
| 48 | Fabrication of 3D Printed PCL/PEG Polyblend Scaffold Using Rapid Prototyping System for Bone Tissue Engineering Application. <i>Journal of Bionic Engineering</i> , 2018, 15, 435-442.  | 2.7 | 57        |
| 49 | Photocurable Biodegradable Liquid Copolymers: Synthesis of Acrylate-End-Capped Trimethylene Carbonate-Based Prepolymers, Photocuring, and Hydrolysis. <i>Biomacromolecules</i> , 2004, 5, 295-305.  | 2.6 | 54        |
| 50 | RGD peptide-immobilized electrospun matrix of polyurethane for enhanced endothelial cell affinity. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 044104.   | 1.7 | 53        |
| 51 | Effect of heparin and alendronate coating on titanium surfaces on inhibition of osteoclast and enhancement of osteoblast function. <i>Biochemical and Biophysical Research Communications</i> , 2011, 413, 194-200.                                       | 1.0 | 53        |
| 52 | Enhancement of ectopic bone formation by bone morphogenetic protein-2 delivery using heparin-conjugated PLGA nanoparticles with transplantation of bone marrow-derived mesenchymal stem cells. <i>Journal of Biomedical Science</i> , 2008, 15, 771-7.    | 2.6 | 52        |
| 53 | Vascular endothelial growth factor immobilized on mussel-inspired three-dimensional bilayered scaffold for artificial vascular graft application: In vitro and in vivo evaluations. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 333-344. | 5.0 | 51        |
| 54 | Emerging Potential of Exosomes in Regenerative Medicine for Temporomandibular Joint Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1541.  | 1.8 | 51        |

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|----|--|------|-----------|
| 55 | Novel 3D printed alginateâ€“BFP1 hybrid scaffolds for enhanced bone regeneration. Journal of Industrial and Engineering Chemistry, 2017, 45, 61-67.  | 2.9  | 50        |
| 56 | Preparation of antibacterial chitosan membranes containing silver nanoparticles for dental barrier membrane applications. Journal of Industrial and Engineering Chemistry, 2018, 66, 196-202.  | 2.9  | 50        |
| 57 | Ursodeoxycholic Acid Inhibits Inflammatory Responses and Promotes Functional Recovery After Spinal Cord Injury in Rats. Molecular Neurobiology, 2019, 56, 267-277.   | 1.9  | 50        |
| 58 | Injectable biodegradable gelatin-methacrylate/Î²-tricalcium phosphate composite for the repair of bone defects. Chemical Engineering Journal, 2019, 365, 30-39.  | 6.6  | 47        |
| 59 | Chitosan/Polyurethane Blended Fiber Sheets Containing Silver Sulfadiazine for Use as an Antimicrobial Wound Dressing. Journal of Nanoscience and Nanotechnology, 2014, 14, 7488-7494.  | 0.9  | 46        |
| 60 | Induction of osteogenic differentiation in a rat calvarial bone defect model using an In situ forming graphene oxide incorporated glycol chitosan/oxidized hyaluronic acid injectable hydrogel. Carbon, 2020, 168, 264-277.  | 5.4  | 46        |
| 61 | Multifunctional silica nanotubes for dual-modality gene delivery and MR imaging. Biomaterials, 2011, 32, 3042-3052.  | 5.7  | 44        |
| 62 | Poly(L-lactic Acid)/Gelatin Fibrous Scaffold Loaded with Simvastatin/Beta-Cyclodextrinâ€“Modified Hydroxyapatite Inclusion Complex for Bone Tissue Regeneration. Macromolecular Bioscience, 2016, 16, 1027-1038.   | 2.1  | 44        |
| 63 | Three-Dimensional Electrospun Poly(Lactide-Co-Îµ-Caprolactone) for Small-Diameter Vascular Grafts. Tissue Engineering - Part A, 2012, 18, 1608-1616.   | 1.6  | 43        |
| 64 | Mesoporous TiO2 implants for loading high dosage of antibacterial agent. Applied Surface Science, 2014, 303, 140-146.  | 3.1  | 43        |
| 65 | All-Solution-Processed Transparent Thin Film Transistor and Its Application to Liquid Crystals Driving. Advanced Materials, 2013, 25, 3209-3214.   | 11.1 | 39        |
| 66 | Simple and facile preparation of recombinant human bone morphogenetic protein-2 immobilized titanium implant via initiated chemical vapor deposition technique to promote osteogenesis for bone tissue engineering application. Materials Science and Engineering C, 2019, 100, 949-958. | 3.8  | 39        |
| 67 | Use of Baicalin-Conjugated Gold Nanoparticles for Apoptotic Induction of Breast Cancer Cells. Nanoscale Research Letters, 2016, 11, 381.   | 3.1  | 38        |
| 68 | Preparation and characterization of antibacterial orthodontic resin containing silver nanoparticles. Applied Surface Science, 2018, 432, 317-323.  | 3.1  | 38        |
| 69 | Preparation and biocompatibility study of gelatin/kappa-carrageenan scaffolds. Macromolecular Research, 2010, 18, 29-34.   | 1.0  | 37        |
| 70 | Improved cell infiltration of highly porous 3D nanofibrous scaffolds formed by combined fiberâ€“fiber charge repulsions and ultra-sonication. Journal of Materials Chemistry B, 2014, 2, 8116-8122.  | 2.9  | 36        |
| 71 | Development of a three-dimensionally printed scaffold grafted with bone forming peptide-1 for enhanced bone regeneration with in vitro and in vivo evaluations. Journal of Colloid and Interface Science, 2019, 539, 468-480.  | 5.0  | 36        |
| 72 | Poly(L-lactic acid)/Hydroxyapatite Nanocylinders as Nanofibrous Structure for Bone Tissue Engineering Scaffolds. Journal of Biomedical Nanotechnology, 2013, 9, 424-429.   | 0.5  | 35        |

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|----|---|-----|-----------|
| 73 | Poly(lactide-co-glycolide) nanofibrous scaffolds chemically coated with gold-nanoparticles as osteoinductive agents for osteogenesis. <i>Applied Surface Science</i> , 2018, 432, 300-307.  | 3.1 | 35        |
| 74 | Monitoring of clobetasol propionate and betamethasone dipropionate as undeclared steroids in cosmetic products manufactured in Korea. <i>Forensic Science International</i> , 2011, 210, 144-148.                                       | 1.3 | 33        |
| 75 | Vitamin D-conjugated gold nanoparticles as functional carriers to enhancing osteogenic differentiation. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 826-836.  | 2.8 | 33        |
| 76 | Biofunctionalized titanium with anti-fouling resistance by grafting thermo-responsive polymer brushes for the prevention of peri-implantitis. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5161-5165.                             | 2.9 | 32        |
| 77 | Functional nerve cuff electrode with controllable anti-inflammatory drug loading and release by biodegradable nanofibers and hydrogel deposition. <i>Sensors and Actuators B: Chemical</i> , 2015, 215, 133-141.                        | 4.0 | 32        |
| 78 | Most simple preparation of an inkjet printing of silver nanoparticles on fibrous membrane for water purification: Technological and commercial application. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 273-278. | 2.9 | 32        |
| 79 | Novel bactericidal surface: Catechin-loaded surface-erodible polymer prevents biofilm formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 146-155.   | 2.1 | 31        |
| 80 | Transdifferentiation of human periodontal ligament stem cells into pancreatic cell lineage. <i>Cell Biochemistry and Function</i> , 2014, 32, 605-611.  | 1.4 | 29        |
| 81 | Generation of functionalized polymer nanolayer on implant surface via initiated chemical vapor deposition (ICVD). <i>Journal of Colloid and Interface Science</i> , 2015, 439, 34-41.   | 5.0 | 29        |
| 82 | Design of gold nanoparticles-decorated SiO <sub>2</sub> @TiO <sub>2</sub> core/shell nanostructures for visible light-activated photocatalysis. <i>RSC Advances</i> , 2017, 7, 7469-7475.   | 1.7 | 29        |
| 83 | Suturable regenerated silk fibroin scaffold reinforced with 3D-printed polycaprolactone mesh: biomechanical performance and subcutaneous implantation. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 63.       | 1.7 | 29        |
| 84 | Dual pH- and GSH-Responsive Degradable PEGylated Graphene Quantum Dot-Based Nanoparticles for Enhanced HER2-Positive Breast Cancer Therapy. <i>Nanomaterials</i> , 2020, 10, 91.  | 1.9 | 29        |
| 85 | Fibroblast culture on surface-modified poly (glycolide-co- $\epsilon$ -caprolactone) scaffold for soft tissue regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 1147-1160.                              | 1.9 | 28        |
| 86 | In vitro characterization of nanofibrous PLGA/gelatin/hydroxyapatite composite for bone tissue engineering. <i>Macromolecular Research</i> , 2010, 18, 1195-1202.   | 1.0 | 28        |
| 87 | Coenzyme Q10 Regulates Osteoclast and Osteoblast Differentiation. <i>Journal of Food Science</i> , 2013, 78, H785-891.  | 1.5 | 28        |
| 88 | Enhanced neuroregenerative effects by scaffold for the treatment of a rat spinal cord injury with Wnt3a-secreting fibroblasts. <i>Acta Neurochirurgica</i> , 2013, 155, 809-816.  | 0.9 | 27        |
| 89 | Retinoic acid inhibits BMP4-induced C3H10T1/2 stem cell commitment to adipocyte via downregulating Smad/p38MAPK signaling. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 550-555.                             | 1.0 | 26        |
| 90 | Static magnetic fields promote osteoblastic/cementoblastic differentiation in osteoblasts, cementoblasts, and periodontal ligament cells. <i>Journal of Periodontal and Implant Science</i> , 2017, 47, 273.                            | 0.9 | 26        |

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|-----|--|-----|-----------|
| 91  | ZrO <sub>2</sub> surface chemically coated with hyaluronic acid hydrogel loading GDF-5 for osteogenesis in dentistry. <i>Carbohydrate Polymers</i> , 2013, 92, 167-175.  | 5.1 | 25        |
| 92  | Quantitative monitoring of corticosteroids in cosmetic products manufactured in Korea using LC-MS/MS. <i>Forensic Science International</i> , 2012, 220, e23-e28.  | 1.3 | 24        |
| 93  | The role of focal adhesion kinase in BMP4 induction of mesenchymal stem cell adipogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2013, 435, 696-701.                                    | 1.0 | 23        |
| 94  | One-Step Fabrication of AgNPs Embedded Hybrid Dual Nanofibrous Oral Wound Dressings. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 2041-2050.  | 0.5 | 23        |
| 95  | Implantation of a Matrigel-loaded agarose scaffold promotes functional regeneration of axons after spinal cord injury in rat. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 785-791. | 1.0 | 23        |
| 96  | Microwave-Assisted Synthesis of Biocompatible Silk Fibroin-Based Carbon Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700300.   | 1.2 | 23        |
| 97  | Dexamethasone loaded bilayered 3D tubular scaffold reduces restenosis at the anastomotic site of tracheal replacement: <i>in vitro</i> and <i>in vivo</i> assessments. <i>Nanoscale</i> , 2020, 12, 4846-4858. | 2.8 | 23        |
| 98  | Fabrication of biomimetic PCL scaffold using rapid prototyping for bone tissue engineering. <i>Macromolecular Research</i> , 2014, 22, 882-887.  | 1.0 | 22        |
| 99  | Enhanced Photodynamic Properties of Graphene Quantum Dot Conjugated Ce6 Nanoparticles for Targeted Cancer Therapy and Imaging. <i>Chemistry Letters</i> , 2016, 45, 997-999.                                   | 0.7 | 22        |
| 100 | Aligned laminin core-polydioxanone/collagen shell fiber matrices effective for neuritogenesis. <i>Scientific Reports</i> , 2018, 8, 5570.  | 1.6 | 22        |
| 101 | Development of Nanofiber Coated Indomethacin-Eluting Stent for Tracheal Regeneration. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5711-5716.  | 0.9 | 21        |
| 102 | Efficient formation of cell spheroids using polymer nanofibers. <i>Biotechnology Letters</i> , 2012, 34, 795-803.  | 1.1 | 21        |
| 103 | Embryoid body size-mediated differential endodermal and mesodermal differentiation using polyethylene glycol (PEG) microwell array. <i>Macromolecular Research</i> , 2015, 23, 245-255.                        | 1.0 | 21        |
| 104 | Ternary nanofiber matrices composed of PCL/black phosphorus/collagen to enhance osteodifferentiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 802-810.                              | 2.9 | 21        |
| 105 | Anti-neuroinflammatory gold nanocomplex loading ursodeoxycholic acid following spinal cord injury. <i>Chemical Engineering Journal</i> , 2019, 375, 122088.  | 6.6 | 21        |
| 106 | Flowtaxis of osteoblast migration under fluid shear and the effect of RhoA kinase silencing. <i>PLoS ONE</i> , 2017, 12, e0171857.   | 1.1 | 21        |
| 107 | Mitochondrial function contributes to oxysterol-induced osteogenic differentiation in mouse embryonic stem cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 561-572.        | 1.9 | 20        |
| 108 | Double layers of gold nanoparticles immobilized titanium implants improve the osseointegration in rabbit models. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102129.                | 1.7 | 20        |

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|-----|--|-----|-----------|
| 109 | Tissue engineering of urinary organs. Yonsei Medical Journal, 2000, 41, 780.   | 0.9 | 19        |
| 110 | Application of coherent anti-Stokes Raman scattering microscopy to image the changes in a paclitaxel-poly(styrene- <i>b</i> -isobutylene- <i>b</i> -styrene) matrix pre- and post-drug elution. Journal of Biomedical Materials Research - Part A, 2008, 87A, 913-920. | 2.1 | 19        |
| 111 | Comparison of polysaccharides in articular cartilage regeneration associated with chondrogenic and autophagy-related gene expression. International Journal of Biological Macromolecules, 2020, 146, 922-930.  | 3.6 | 19        |
| 112 | Current Progress in Nanotechnology Applications for Diagnosis and Treatment of Kidney Diseases. Advanced Healthcare Materials, 2015, 4, 2037-2045.   | 3.9 | 18        |
| 113 | Development of Poly( $\epsilon$ -caprolactone) Scaffold Loaded with Simvastatin and Beta-Cyclodextrin Modified Hydroxyapatite Inclusion Complex for Bone Tissue Engineering. Polymers, 2016, 8, 49.  | 2.0 | 18        |
| 114 | Ultrasound-triggered PLGA microparticle destruction and degradation for controlled delivery of local cytotoxicity and drug release. International Journal of Biological Macromolecules, 2018, 106, 1211-1217.  | 3.6 | 18        |
| 115 | Glutathione-responsive PEGylated GQD-based nanomaterials for diagnosis and treatment of breast cancer. Journal of Industrial and Engineering Chemistry, 2019, 71, 301-307.   | 2.9 | 18        |
| 116 | Controllable delivery system: A temperature and pH-responsive injectable hydrogel from succinylated chitosan. Applied Surface Science, 2020, 528, 146812.  | 3.1 | 18        |
| 117 | Fabrication of endothelial cell-specific polyurethane surfaces co-immobilized with GRGDS and YIGSR peptides. Macromolecular Research, 2009, 17, 458-463.   | 1.0 | 17        |
| 118 | Cardiomyocyte stretching for regenerative medicine and hypertrophy study. Tissue Engineering and Regenerative Medicine, 2015, 12, 398-409.   | 1.6 | 17        |
| 119 | A novel mussel-inspired 3D printed-scaffolds immobilized with bone forming peptide-1 for bone tissue engineering applications: Preparation, characterization and evaluation of its properties. Macromolecular Research, 2016, 24, 305-308.                             | 1.0 | 16        |
| 120 | Fabrication and design of bioactive agent coated, highly-aligned electrospun matrices for nerve tissue engineering: Preparation, characterization and application. Applied Surface Science, 2017, 424, 359-367.  | 3.1 | 16        |
| 121 | Micropatterned Silk-Fibroin/Eumelanin Composite Films for Bioelectronic Applications. ACS Biomaterials Science and Engineering, 2021, 7, 2466-2474.  | 2.6 | 16        |
| 122 | The use of heparin chemistry to improve dental osteogenesis associated with implants. Carbohydrate Polymers, 2017, 157, 1750-1758.   | 5.1 | 15        |
| 123 | Facile preparation of mussel-inspired antibiotic-decorated titanium surfaces with enhanced antibacterial activity for implant applications. Applied Surface Science, 2019, 496, 143675.  | 3.1 | 15        |
| 124 | Cationic Nanocylinders Promote Angiogenic Activities of Endothelial Cells. Polymers, 2016, 8, 15.  | 2.0 | 14        |
| 125 | Multilayered co-electrospun scaffold containing silver sulfadiazine as a prophylactic against osteomyelitis: Characterization and biological in vitro evaluations. Applied Surface Science, 2018, 432, 308-316.  | 3.1 | 14        |
| 126 | In vitro and in vivo assessments of an optimal polyblend composition of polycaprolactone/gelatin nanofibrous scaffolds for Achilles tendon tissue engineering. Journal of Industrial and Engineering Chemistry, 2019, 76, 173-180.                                     | 2.9 | 13        |



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|-----|--|-----|-----------|
| 127 | Synthesis and properties of hyaluronic acid containing copolymers crosslinked by $\hat{\text{I}}^3$ -ray irradiation. <i>Macromolecular Research</i> , 2011, 19, 436-441.  | 1.0 | 12        |
| 128 | Eumelanin Nanoparticle-Incorporated Polyvinyl Alcohol Nanofibrous Composite as an Electroconductive Scaffold for Skeletal Muscle Tissue Engineering. <i>ACS Applied Bio Materials</i> , 2018, 1, 1893-1905.  | 2.3 | 12        |
| 129 | Graphene-Based Nanocomposites as Promising Options for Hard Tissue Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1078, 103-117.   | 0.8 | 12        |
| 130 | Strategy to inhibit effective differentiation of RANKL-induced osteoclasts using vitamin D-conjugated gold nanoparticles. <i>Applied Surface Science</i> , 2020, 527, 146765.  | 3.1 | 12        |
| 131 | Facile Preparation of $\hat{\text{I}}^2$ -Cyclodextrin-grafted Chitosan Electrospun Nanofibrous Scaffolds as a Hydrophobic Drug Delivery Vehicle for Tissue Engineering Applications. <i>ACS Omega</i> , 2021, 6, 28307-28315.   | 1.6 | 12        |
| 132 | Fibroblast culture on poly(L-lactide-co- $\hat{\text{E}}$ -caprolactone) an electrospun nanofiber sheet. <i>Macromolecular Research</i> , 2012, 20, 1234-1242.   | 1.0 | 11        |
| 133 | Microwell-mediated micro cartilage-like tissue formation of adipose-derived stem cell. <i>Macromolecular Research</i> , 2014, 22, 287-296.   | 1.0 | 11        |
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