Dong Nyoung Heo

List of Publications by Year in descending order

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64 papers	3,830 citations	147726 31 h-index	123376 61 g-index
65 all docs	65 docs citations	65 times ranked	6433 citing authors

#	Article	IF	Citations
1	Gold nanoparticles surface-functionalized with paclitaxel drug and biotin receptor as theranostic agents for cancer therapy. Biomaterials, 2012, 33, 856-866.	5.7	310
2	Electrospun gelatin/polyurethane blended nanofibers for wound healing. Biomedical Materials (Bristol), 2009, 4, 044106.	1.7	228
3	Enhanced bone regeneration with a gold nanoparticleâ€“hydrogel complex. Journal of Materials Chemistry B, 2014, 2, 1584-1593.	2.9	205
4	3D printing nano conductive multi-walled carbon nanotube scaffolds for nerve regeneration. Journal of Neural Engineering, 2018, 15, 016018.	1.8	176
5	Aspiration-assisted bioprinting for precise positioning of biologics. Science Advances, 2020, 6, eaaw5111.	4.7	170
6	Development of 3D printable conductive hydrogel with crystallized PEDOT:PSS for neural tissue engineering. Materials Science and Engineering C, 2019, 99, 582-590.	3.8	167
7	Electrospun chitosan nanofibers with controlled levels of silver nanoparticles. Preparation, characterization and antibacterial activity. Carbohydrate Polymers, 2014, 111, 530-537.	5.1	164
8	The effect of gold nanoparticle size on osteogenic differentiation of adipose-derived stem cells. Journal of Colloid and Interface Science, 2015, 438, 68-76.	5.0	154
9	Highly Porous Electrospun Nanofibers Enhanced by Ultrasonication for Improved Cellular Infiltration. Tissue Engineering - Part A, 2011, 17, 2695-2702.	1.6	144
10	Photo-cured hyaluronic acid-based hydrogels containing simvastatin as a bone tissue regeneration scaffold. Biomaterials, 2011, 32, 8161-8171.	5.7	121
11	Enhanced bone tissue regeneration using a 3D printed microstructure incorporated with a hybrid nano hydrogel. Nanoscale, 2017, 9, 5055-5062.	2.8	121
12	Synergistic interplay between human MSCs and HUVECs in 3D spheroids laden in collagen/fibrin hydrogels for bone tissue engineering. Acta Biomaterialia, 2019, 95, 348-356.	4.1	117
13	Inhibition of Osteoclast Differentiation by Gold Nanoparticles Functionalized with Cyclodextrin Curcumin Complexes. ACS Nano, 2014, 8, 12049-12062.	7.3	109
14	Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a 3D printing system. Physical Chemistry Chemical Physics, 2015, 17, 2996-2999.	1.3	104
15	Burn-Wound Healing Effect of Gelatin/Polyurethane Nanofiber Scaffold Containing Silver-Sulfadiazine. Journal of Biomedical Nanotechnology, 2013, 9, 511-515.	0.5	96
16	Photo-cured hyaluronic acid-based hydrogels containing growth and differentiation factor 5 (GDF-5) for bone tissue regeneration. Bone, 2014, 59, 189-198.	1.4	90
17	Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. Journal of Colloid and Interface Science, 2016, 469, 129-137.	5.0	87
18	Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. Acta Biomaterialia, 2016, 39, 25-33.	4.1	71

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19	Inhibition of Osteoclast Differentiation and Bone Resorption by Bisphosphonate-conjugated Gold Nanoparticles. Scientific Reports, 2016, 6, 27336.	1.6	67
20	3D Bioprinting of Carbohydrazide-Modified Gelatin into Microparticle-Suspended Oxidized Alginate for the Fabrication of Complex-Shaped Tissue Constructs. ACS Applied Materials & Interfaces, 2020, 12, 20295-20306.	4.0	65
21	Flexible and Highly Biocompatible Nanofiber-Based Electrodes for Neural Surface Interfacing. ACS Nano, 2017, 11, 2961-2971.	7.3	62
22	Injectable hydrogel composite containing modified gold nanoparticles: implication in bone tissue regeneration. International Journal of Nanomedicine, 2018, Volume 13, 7019-7031.	3.3	57
23	Emerging Potential of Exosomes in Regenerative Medicine for Temporomandibular Joint Osteoarthritis. International Journal of Molecular Sciences, 2020, 21, 1541.	1.8	51
24	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
25	Injectable biodegradable gelatin-methacrylate/Î²â€tricalcium phosphate composite for the repair of bone defects. Chemical Engineering Journal, 2019, 365, 30-39.	6.6	47
26	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
27	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
28	Poly(‹scp›l‹/scp›â€Lactic Acid)/Gelatin Fibrous Scaffold Loaded with Simvastatin/Betaâ€Cyclodextrinâ€Modified Hydroxyapatite Inclusion Complex for Bone Tissue Regeneration. Macromolecular Bioscience, 2016, 16, 1027-1038.	2.1	44
29	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
30	Use of Baicalin-Conjugated Gold Nanoparticles for Apoptotic Induction of Breast Cancer Cells. Nanoscale Research Letters, 2016, 11, 381.	3.1	38
31	Poly(lactide-co-glycolide) nanofibrous scaffolds chemically coated with gold-nanoparticles as osteoinductive agents for osteogenesis. Applied Surface Science, 2018, 432, 300-307.	3.1	35
32	Aspiration-assisted bioprinting of co-cultured osteogenic spheroids for bone tissue engineering. Biofabrication, 2021, 13, 015013.	3.7	34
33	Vitamin D-conjugated gold nanoparticles as functional carriers to enhancing osteogenic differentiation. Science and Technology of Advanced Materials, 2019, 20, 826-836.	2.8	33
34	Biofunctionalized titanium with anti-fouling resistance by grafting thermo-responsive polymer brushes for the prevention of peri-implantitis. Journal of Materials Chemistry B, 2015, 3, 5161-5165.	2.9	32
35	Functional nerve cuff electrode with controllable anti-inflammatory drug loading and release by biodegradable nanofibers and hydrogel deposition. Sensors and Actuators B: Chemical, 2015, 215, 133-141.	4.0	32
36	Most simple preparation of an inkjet printing of silver nanoparticles on fibrous membrane for water purification: Technological and commercial application. Journal of Industrial and Engineering Chemistry, 2017, 46, 273-278.	2.9	32

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37	In vitro characterization of nanofibrous PLGA/gelatin/hydroxyapatite composite for bone tissue engineering. Macromolecular Research, 2010, 18, 1195-1202.	1.0	28
38	Directly Induced Neural Differentiation of Human Adipose-Derived Stem Cells Using Three-Dimensional Culture System of Conductive Microwell with Electrical Stimulation. Tissue Engineering - Part A, 2018, 24, 537-545.	1.6	28
39	ZrO2 surface chemically coated with hyaluronic acid hydrogel loading GDF-5 for osteogenesis in dentistry. Carbohydrate Polymers, 2013, 92, 167-175.	5.1	25
40	One-Step Fabrication of AgNPs Embedded Hybrid Dual Nanofibrous Oral Wound Dressings. Journal of Biomedical Nanotechnology, 2016, 12, 2041-2050.	0.5	23
41	Development of Nanofiber Coated Indomethacinâ€"Eluting Stent for Tracheal Regeneration. Journal of Nanoscience and Nanotechnology, 2011, 11, 5711-5716.	0.9	21
42	Anti-neuroinflammatory gold nanocomplex loading ursodeoxycholic acid following spinal cord injury. Chemical Engineering Journal, 2019, 375, 122088.	6.6	21
43	Double layers of gold nanoparticles immobilized titanium implants improve the osseointegration in rabbit models. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102129.	1.7	20
44	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
45	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
46	Controllable delivery system: A temperature and pH-responsive injectable hydrogel from succinylated chitosan. Applied Surface Science, 2020, 528, 146812.	3.1	18
47	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
48	The use of heparin chemistry to improve dental osteogenesis associated with implants. Carbohydrate Polymers, 2017, 157, 1750-1758.	5.1	15
49	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
50	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
51	Strategy to inhibit effective differentiation of RANKL-induced osteoclasts using vitamin D-conjugated gold nanoparticles. Applied Surface Science, 2020, 527, 146765.	3.1	12
52	Facile Preparation of Î²-Cyclodextrin-grafted Chitosan Electrospun Nanofibrous Scaffolds as a Hydrophobic Drug Delivery Vehicle for Tissue Engineering Applications. ACS Omega, 2021, 6, 28307-28315.	1.6	12
53	Preparation of Electrospun Fibrous Scaffold Containing Silver Sulfadiazine for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 8554-8558.	0.9	10
54	Biological assessments of multifunctional hydrogel-decorated implantable neural cuff electrode for clinical neurology application. Scientific Reports, 2017, 7, 15245.	1.6	10

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55	Development of novel photopolymerizable hyaluronic acid/heparin-based hydrogel scaffolds with a controlled release of growth factors for enhanced bone regeneration. Macromolecular Research, 2016, 24, 829-837.	1.0	9
56	Evaluation of GENESIS-BCPâ„¢ scaffold composed of hydroxyapatite and Î²-tricalcium phosphate on bone formation. Macromolecular Research, 2012, 20, 627-633.	1.0	8
57	Development of photo-crosslinkable platelet lysate-based hydrogels for 3D printing and tissue engineering. Biofabrication, 2021, 13, 044102.	3.7	7
58	Scale-Up Production of Theranostic Nanoparticles. , 2014, , 457-470.		6
59	Long acting carmustine loaded natural extracellular matrix hydrogel for inhibition of glioblastoma recurrence after tumor resection. Frontiers of Chemical Science and Engineering, 0, , 1.	2.3	6
60	Immediately implantable extracellular matrix-enriched osteoinductive hydrogel-laden 3D-printed scaffold for promoting vascularized bone regeneration in vivo. Materials and Design, 2022, 219, 110801.	3.3	6
61	Cell fouling resistance of PEG-grafted polyimide film for neural implant applications. Proceedings of SPIE, 2012, , .	0.8	5
62	Preparation of mechanically enhanced hydrogel scaffolds by incorporating interfacial polymer nanorods for nerve electrode application. Fibers and Polymers, 2017, 18, 2248-2254.	1.1	5
63	In vitro evaluation of simvastatin acid (SVA) coated beta-tricalcium phosphate (Î²-TCP) particle on bone tissue regeneration. Macromolecular Research, 2012, 20, 754-761.	1.0	3
64	The Effectiveness of Compartmentalized Bone Graft Sponges Made Using Complementary Bone Graft Materials and Succinylated Chitosan Hydrogels. Biomedicines, 2021, 9, 1765.	1.4	2