

Hansoo Park

List of Publications by Year in descending order

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85
papers

4,107
citations

159585

30
h-index

123424

61
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86
all docs

86
docs citations

86
times ranked

7281
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanoparticles for Photothermal Cancer Therapy. <i>Frontiers in Chemistry</i> , 2019, 7, 167.	3.6	547
2	Engineering and Functionalization of Gelatin Biomaterials: From Cell Culture to Medical Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 164-180.	4.8	319
3	Spheroid Culture System Methods and Applications for Mesenchymal Stem Cells. <i>Cells</i> , 2019, 8, 1620.	4.1	274
4	Crosslinking method of hyaluronic-based hydrogel for biomedical applications. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141772646.	5.5	256
5	Discovery of common Asian copy number variants using integrated high-resolution array CGH and massively parallel DNA sequencing. <i>Nature Genetics</i> , 2010, 42, 400-405.	21.4	179
6	Snapshot of phase transition in thermoresponsive hydrogel PNIPAM: Role in drug delivery and tissue engineering. <i>Macromolecular Research</i> , 2016, 24, 297-304.	2.4	153
7	Cell membrane-coated nanocarriers: the emerging targeted delivery system for cancer theranostics. <i>Drug Discovery Today</i> , 2018, 23, 891-899.	6.4	112
8	An epigenomic roadmap to induced pluripotency reveals DNA methylation as a reprogramming modulator. <i>Nature Communications</i> , 2014, 5, 5619.	12.8	108
9	Engineering Multi-Cellular Spheroids for Tissue Engineering and Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000608.	7.6	102
10	Hydrogel Biomaterials for Stem Cell Microencapsulation. <i>Polymers</i> , 2018, 10, 997.	4.5	101
11	Antimicrobial activity of silver nanoparticles encapsulated in poly-N-isopropylacrylamide-based polymeric nanoparticles. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 235-249.	6.7	89
12	Osteogenic/Angiogenic Dual Growth Factor Delivery Microcapsules for Regeneration of Vascularized Bone Tissue. <i>Advanced Healthcare Materials</i> , 2015, 4, 1982-1992.	7.6	88
13	Fluorescence switch for silver ion detection utilizing dimerization of DNA-Ag nanoclusters. <i>Biosensors and Bioelectronics</i> , 2015, 68, 642-647.	10.1	81
14	Bioengineered stem cell membrane functionalized nanocarriers for therapeutic targeting of severe hindlimb ischemia. <i>Biomaterials</i> , 2018, 185, 360-370.	11.4	81
15	Lipid-based surface engineering of PLGA nanoparticles for drug and gene delivery applications. <i>Biomaterials Research</i> , 2016, 20, 34.	6.9	79
16	Biofunctionalized nanoparticles: an emerging drug delivery platform for various disease treatments. <i>Drug Discovery Today</i> , 2016, 21, 1303-1312.	6.4	74
17	Nitric oxide-releasing polymer incorporated ointment for cutaneous wound healing. <i>Journal of Controlled Release</i> , 2015, 220, 624-630.	9.9	73
18	Recent Developments in Nanofiber Fabrication and Modification for Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2020, 21, 99.	4.1	69

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19	Natural bio-based monomers for biomedical applications: a review. <i>Biomaterials Research</i> , 2021, 25, 8.	6.9	57
20	Microneedles: A versatile strategy for transdermal delivery of biological molecules. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 30-38.	7.5	52
21	Comprehensive genomic analyses associate <i>UGT8</i> variants with musical ability in a Mongolian population. <i>Journal of Medical Genetics</i> , 2012, 49, 747-752.	3.2	48
22	Current approaches in biomaterial-based hematopoietic stem cell niches. <i>Acta Biomaterialia</i> , 2018, 72, 1-15.	8.3	48
23	Modulation of immune responses with nanoparticles and reduction of their immunotoxicity. <i>Biomaterials Science</i> , 2020, 8, 1490-1501.	5.4	47
24	Biodegradable polymers for modern vaccine development. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 12-24.	5.8	43
25	Influence of cationic lipid concentration on properties of lipid-polymer hybrid nanospheres for gene delivery. <i>International Journal of Nanomedicine</i> , 2015, 10, 5367.	6.7	40
26	Fabrication of FGF-2 immobilized electrospun gelatin nanofibers for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1559-1566.	7.5	40
27	Effective delivery of immunosuppressive drug molecules by silica coated iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 290-296.	5.0	40
28	Contemporary Polymer-Based Nanoparticle Systems for Photothermal Therapy. <i>Polymers</i> , 2018, 10, 1357.	4.5	40
29	Multi-Compartmental Hydrogel Microparticles Fabricated by Combination of Sequential Electrospinning and Photopatterning. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11511-11515.	13.8	36
30	Co-delivery of Cbfa-1-targeting siRNA and SOX9 protein using PLGA nanoparticles to induce chondrogenesis of human mesenchymal stem cells. <i>Biomaterials</i> , 2014, 35, 8236-8248.	11.4	33
31	Transfer stamping of human mesenchymal stem cell patches using thermally expandable hydrogels with tunable cell-adhesive properties. <i>Biomaterials</i> , 2015, 54, 44-54.	11.4	30
32	Self-assembled nanocomplex between polymerized phenylboronic acid and doxorubicin for efficient tumor-targeted chemotherapy. <i>Acta Pharmacologica Sinica</i> , 2017, 38, 848-858.	6.1	30
33	A three-dimensional co-culture of HepG2 spheroids and fibroblasts using double-layered fibrous scaffolds incorporated with hydrogel micropatterns. <i>RSC Advances</i> , 2014, 4, 61005-61011.	3.6	28
34	Fabrication of core-shell spheroids as building blocks for engineering 3D complex vascularized tissue. <i>Acta Biomaterialia</i> , 2019, 100, 158-172.	8.3	28
35	RPM peptide conjugated bioreducible polyethylenimine targeting invasive colon cancer. <i>Journal of Controlled Release</i> , 2015, 205, 172-180.	9.9	27
36	Synthesis and Characterization of Gelatin-Based Crosslinkers for the Fabrication of Superabsorbent Hydrogels. <i>Materials</i> , 2017, 10, 826.	2.9	27

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37	Current Approaches Including Novel Nano/Microtechniques to Reduce Silicone Implant-Induced Contracture with Adverse Immune Responses. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1171.	4.1	26
38	Matrilin-3 Role in Cartilage Development and Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2016, 17, 590.	4.1	24
39	Magnetic force-assisted self-locking metallic bead array for fabrication of diverse concave microwell geometries. <i>Lab on A Chip</i> , 2016, 16, 3565-3575.	6.0	24
40	Matrilin3/TGF β 23 gelatin microparticles promote chondrogenesis, prevent hypertrophy, and induce paracrine release in MSC spheroid for disc regeneration. <i>Npj Regenerative Medicine</i> , 2021, 6, 50.	5.2	24
41	Enhancement of cardiac myoblast responses onto electrospun PLCL fibrous matrices coated with polydopamine for gelatin immobilization. <i>Macromolecular Research</i> , 2011, 19, 835-842.	2.4	23
42	Nano "Chocolate Waffle" for near-IR Responsive Drug Releasing System. <i>Small</i> , 2015, 11, 5315-5323.	10.0	23
43	Matrilin-3 codelivery with adipose-derived mesenchymal stem cells promotes articular cartilage regeneration in a rat osteochondral defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 667-675.	2.7	23
44	Enhanced therapeutic efficacy of lipophilic amphotericin B against <i>Candida albicans</i> with amphiphilic poly(N-isopropylacrylamide) nanogels. <i>Macromolecular Research</i> , 2014, 22, 1125-1131.	2.4	22
45	Engineered nanoconstructs for the multiplexed and sensitive detection of high-risk pathogens. <i>Nanoscale</i> , 2016, 8, 1944-1951.	5.6	22
46	Incorporation of gelatin microparticles on the formation of adipose-derived stem cell spheroids. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 472-478.	7.5	21
47	Efficacy of matrilin-3-primed adipose-derived mesenchymal stem cell spheroids in a rabbit model of disc degeneration. <i>Stem Cell Research and Therapy</i> , 2020, 11, 363.	5.5	20
48	Surface Coating with Hyaluronic Acid-Gelatin-Crosslinked Hydrogel on Gelatin-Conjugated Poly(dimethylsiloxane) for Implantable Medical Device-Induced Fibrosis. <i>Pharmaceutics</i> , 2021, 13, 269.	4.5	20
49	Microengineered platforms for co-cultured mesenchymal stem cells towards vascularized bone tissue engineering. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 465-474.	3.7	18
50	Temperature-Responsive Hydrogel-Coated Gold Nanoshells. <i>Gels</i> , 2018, 4, 28.	4.5	17
51	Selective transfection with osmotically active sorbitol modified PEI nanoparticles for enhanced anti-cancer gene therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 126-136.	5.0	16
52	Labeling and tracking cells with gold nanoparticles. <i>Drug Discovery Today</i> , 2021, 26, 94-105.	6.4	16
53	Dual growth factor-loaded core-shell polymer microcapsules can promote osteogenesis and angiogenesis. <i>Macromolecular Research</i> , 2014, 22, 1320-1329.	2.4	15
54	Fabrication of cell sheets with anisotropically aligned myotubes using thermally expandable micropatterned hydrogels. <i>Macromolecular Research</i> , 2016, 24, 562-572.	2.4	15

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55	Surface conjugation of poly (dimethyl siloxane) with itaconic acid-based materials for antibacterial effects. <i>Applied Surface Science</i> , 2018, 437, 245-256.	6.1	15
56	Intracellular delivery and activation of the genetically encoded photosensitizer Killer Red by quantum dots encapsulated in polymeric micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 284-294.	5.0	14
57	A family-based association study after genome-wide linkage analysis identified two genetic loci for renal function in a Mongolian population. <i>Kidney International</i> , 2013, 83, 285-292.	5.2	13
58	Self-Assembled Nanoconstructs Modified with Amplified Aptamers Inhibited Tumor Growth and Retinal Vascular Hyperpermeability via Vascular Endothelial Growth Factor Capturing. <i>Molecular Pharmaceutics</i> , 2017, 14, 1460-1468.	4.6	13
59	Inhibition of Capsular Contracture of Poly (Dimethyl Siloxane) Medical Implants by Surface Modification with Itaconic Acid Conjugated Gelatin. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 89, 128-138.	5.8	13
60	Preparation of cationic lipid layered PLGA hybrid nanoparticles for gene delivery. <i>Journal of Controlled Release</i> , 2015, 213, e92-e93.	9.9	12
61	Functional Duality of Chondrocyte Hypertrophy and Biomedical Application Trends in Osteoarthritis. <i>Pharmaceutics</i> , 2021, 13, 1139.	4.5	12
62	Colloidal stability evolution and completely reversible aggregation of gold nanoparticles functionalized with rationally designed free radical initiators. <i>Colloid and Polymer Science</i> , 2014, 292, 411-421.	2.1	11
63	Role of RHEB in Regulating Differentiation Fate of Mesenchymal Stem Cells for Cartilage and Bone Regeneration. <i>International Journal of Molecular Sciences</i> , 2017, 18, 880.	4.1	11
64	Modulation of Foreign Body Reaction against PDMS Implant by Grafting Topographically Different Poly(acrylic acid) Micropatterns. <i>Macromolecular Bioscience</i> , 2019, 19, 1900206.	4.1	11
65	<p>Combating Intracellular Pathogens with Nanohybrid-Facilitated Antibiotic Delivery</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 8437-8449.	6.7	11
66	Suppression of SPRY4 Promotes Osteogenic Differentiation and Bone Formation of Mesenchymal Stem Cell. <i>Tissue Engineering - Part A</i> , 2019, 25, 1646-1657.	3.1	9
67	Three-dimensional cartilage tissue regeneration system harnessing goblet-shaped microwells containing biocompatible hydrogel. <i>Biofabrication</i> , 2020, 12, 015019.	7.1	9
68	Combined chemical and physical transformation method with RbCl and sepiolite for the transformation of various bacterial species. <i>Journal of Microbiological Methods</i> , 2017, 135, 48-51.	1.6	8
69	Near-infrared light for on-demand drug delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 750-761.	3.5	8
70	Matrilin-3-Primed Adipose-Derived Mesenchymal Stromal Cell Spheroids Prevent Mesenchymal Stromal-Cell-Derived Chondrocyte Hypertrophy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8911.	4.1	8
71	SPRY4 acts as an indicator of osteoarthritis severity and regulates chondrocyte hypertrophy and ECM protease expression. <i>Npj Regenerative Medicine</i> , 2021, 6, 56.	5.2	8
72	Poly(N -isopropylacrylamide)-based nanogels encapsulating gold nanoparticles for DNA delivery. <i>Journal of Controlled Release</i> , 2015, 213, e85.	9.9	7

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73	Itaconic acid-based superabsorbent polymer with high gel strength and biocompatibility. <i>Polymer International</i> , 2022, 71, 1090-1098.	3.1	7
74	Facile method for fabricating uniformly patterned and porous nanofibrous scaffolds for tissue engineering. <i>Macromolecular Research</i> , 2015, 23, 1152-1158.	2.4	6
75	Three-Dimensional Culture for <i>In Vitro</i> Folliculogenesis in the Aspect of Methods and Materials. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 1242-1257.	4.8	6
76	Effect of palladium ion on facilitated olefin transport through silver-polymer complex membranes. <i>Macromolecular Research</i> , 2011, 19, 1077-1081.	2.4	5
77	Enhanced detection of single-cell-secreted proteins using a fluorescent immunoassay on the protein-G-terminated glass substrate. <i>International Journal of Nanomedicine</i> , 2015, 10, 7197.	6.7	5
78	Improved absorption performance of itaconic acid based superabsorbent hydrogel using vinyl sulfonic acid. <i>Polymer-Plastics Technology and Materials</i> , 2021, 60, 1166-1175.	1.3	5
79	Assessment of human adipose-derived stem cell on surface-modified silicone implant to reduce capsular contracture formation. <i>Bioengineering and Translational Medicine</i> , 2022, 7, e10260.	7.1	5
80	Effect of pre-cleaning treatment and contact wetting angle in the interface between P-doped Si surfaces and selective solar cell electrodes. <i>Electronic Materials Letters</i> , 2013, 9, 501-504.	2.2	4
81	Surface-Tunable Bioluminescence Resonance Energy Transfer via Geometry-Controlled ZnO Nanorod Coordination. <i>Small</i> , 2015, 11, 3469-3475.	10.0	4
82	Improvement of IgA Nephropathy and Kidney Regeneration by Functionalized Hyaluronic Acid and Gelatin Hydrogel. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 643-658.	3.7	4
83	Tailoring cubic and dodecagonal quasicrystalline mesophases of mesoporous organosilica nanoparticles and core/shell structure. <i>Materials Science and Engineering C</i> , 2019, 98, 666-674.	7.3	3
84	Optimization of oxygen plasma treatment of silicone implant surface for inhibition of capsular contracture. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 226-238.	5.8	3
85	Single-step acid-catalyzed synthesis of luminescent colloidal organosilica nanobeads. <i>Nano Convergence</i> , 2022, 9, 12.	12.1	3