Yunki Lee

List of Publications by Year in descending order

52 papers	2,098 citations	201674 27 h-index	233421 45 g-index
53 all docs	53 docs citations	53 times ranked	3142 citing authors

#	Article	IF	Citations
1	Horseradish peroxidase-catalyzed hydrogelation of fish gelatin with tunable mechanical properties and biocompatibility. Journal of Biomaterials Applications, 2020, 34, 1216-1226.	2.4	9
2	Enzymatically Crosslinkable Hyaluronic Acid-Gelatin Hybrid Hydrogels as Potential Bioinks for Tissue Regeneration. Macromolecular Research, 2020, 28, 400-406.	2.4	29
3	In situ forming and reactive oxygen species-scavenging gelatin hydrogels for enhancing wound healing efficacy. Acta Biomaterialia, 2020, 103, 142-152.	8.3	154
4	Calcium peroxide-mediated in situ formation of multifunctional hydrogels with enhanced mesenchymal stem cell behaviors and antibacterial properties. Journal of Materials Chemistry B, 2020, 8, 11033-11043.	5.8	23
5	Engineered Heterochronic Parabiosis in 3D Microphysiological System for Identification of Muscle Rejuvenating Factors. Advanced Functional Materials, 2020, 30, 2002924.	14.9	5
6	MSC-Encapsulating in Situ Cross-Linkable Gelatin Hydrogels To Promote Myocardial Repair. ACS Applied Bio Materials, 2020, 3, 1646-1655.	4.6	18
7	Scaffolds for parathyroid tissue engineering. , 2019, , 787-807.		1
8	Engineered horseradish peroxidase-catalyzed hydrogels with high tissue adhesiveness for biomedical applications. Journal of Industrial and Engineering Chemistry, 2019, 78, 34-52.	5.8	47
9	Oxidized Alginate Supplemented Gelatin Hydrogels for the In Situ Formation of Wound Dressing with High Antibacterial Activity. Macromolecular Research, 2019, 27, 811-820.	2.4	16
10	Human hair keratin-based hydrogels as dynamic matrices for facilitating wound healing. Journal of Industrial and Engineering Chemistry, 2019, 73, 142-151.	5.8	42
11	Replicating heterochronic parabiosis on a 3D microphysiological circuit to study the systemic regulation of aging muscle. FASEB Journal, 2019, 33, 701.9.	0.5	0
12	Sulfobetaine methacrylate hydrogel-coated anti-fouling surfaces for implantable biomedical devices. Biomaterials Research, 2018, 22, 3.	6.9	36
13	Nitric oxide-releasing injectable hydrogels with high antibacterial activity through in situ formation of peroxynitrite. Acta Biomaterialia, 2018, 67, 66-78.	8.3	75
14	Hydrogen Peroxideâ€“Releasing Hydrogels for Enhanced Endothelial Cell Activities and Neovascularization. ACS Applied Materials & Interfaces, 2018, 10, 18372-18379.	8.0	38
15	Sustained release of parathyroid hormone via in situ crossâ€linking gelatin hydrogels improves the therapeutic potential of tonsilâ€derived mesenchymal stem cells for hypoparathyroidism. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1747-e1756.	2.7	14
16	A novel calciumâ€accumulating peptide/gelatin in situ forming hydrogel for enhanced bone regeneration. Journal of Biomedical Materials Research - Part A, 2018, 106, 531-542.	4.0	16
17	Enhanced tissue adhesiveness of injectable gelatin hydrogels through dual catalytic activity of horseradish peroxidase. Biopolymers, 2018, 109, e23077.	2.4	26
18	Tonsil-derived mesenchymal stem cell-embedded in situ crosslinkable gelatin hydrogel therapy recovers postmenopausal osteoporosis through bone regeneration. PLoS ONE, 2018, 13, e0200111.	2.5	21

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19	Aging Donor-Derived Human Mesenchymal Stem Cells Exhibit Reduced Reactive Oxygen Species Loads and Increased Differentiation Potential Following Serial Expansion on a PEG-PCL Copolymer Substrate. International Journal of Molecular Sciences, 2018, 19, 359.	4.1	7
20	Catechol-rich gelatin hydrogels in situ hybridizations with silver nanoparticle for enhanced antibacterial activity. Materials Science and Engineering C, 2018, 92, 52-60.	7.3	46
21	Supramolecular Cyclodextrin Supplements to Improve the Tissue Adhesion Strength of Gelatin Bioglues. ACS Macro Letters, 2017, 6, 83-88.	4.8	32
22	Synthesis and characterization of in situ gellable poly(glycerol sebacate)-co-poly(ethylene glycol) polymers. Macromolecular Research, 2017, 25, 85-91.	2.4	15
23	In Situ Forming and H₂O₂-Releasing Hydrogels for Treatment of Drug-Resistant Bacterial Infections. ACS Applied Materials & Interfaces, 2017, 9, 16890-16899.	8.0	73
24	Tyrosinase-Mediated Surface Coimmobilization of Heparin and Silver Nanoparticles for Antithrombotic and Antimicrobial Activities. ACS Applied Materials & Interfaces, 2017, 9, 20376-20384.	8.0	21
25	Optimized biodegradable polymeric reservoir-mediated local and sustained co-delivery of dendritic cells and oncolytic adenovirus co-expressing IL-12 and GM-CSF for cancer immunotherapy. Journal of Controlled Release, 2017, 259, 115-127.	9.9	68
26	In situ forming gelatin hydrogels by dual-enzymatic cross-linking for enhanced tissue adhesiveness. Journal of Materials Chemistry B, 2017, 5, 757-764.	5.8	68
27	Engineered extracellular microenvironment with a tunable mechanical property for controlling cell behavior and cardiomyogenic fate of cardiac stem cells. Acta Biomaterialia, 2017, 50, 234-248.	8.3	26
28	Heparin-functionalized polymer graft surface eluting MK2 inhibitory peptide to improve hemocompatibility and anti-neointimal activity. Journal of Controlled Release, 2017, 266, 321-330.	9.9	12
29	A hydrogel matrix prolongs persistence and promotes specific localization of an oncolytic adenovirus in a tumor by restricting nonspecific shedding and an antiviral immune response. Biomaterials, 2017, 147, 26-38.	11.4	43
30	Oxidized cyclodextrin-functionalized injectable gelatin hydrogels as a new platform for tissue-adhesive hydrophobic drug delivery. RSC Advances, 2017, 7, 34053-34062.	3.6	39
31	Zwitterionic sulfobetaine polymer-immobilized surface by simple tyrosinase-mediated grafting for enhanced antifouling property. Acta Biomaterialia, 2017, 61, 169-179.	8.3	43
32	In Situ Forming Gelatin Hydrogels-Directed Angiogenic Differentiation and Activity of Patient-Derived Human Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2017, 18, 1705.	4.1	14
33	Recent strategies to design vascular theranostic nanoparticles. Nanotheranostics, 2017, 1, 166-177.	5.2	27
34	In situforming gelatin/graphene oxide hydrogels for facilitated C2C12 myoblast differentiation. Applied Spectroscopy Reviews, 2016, 51, 527-539.	6.7	31
35	Cell recruiting chemokine-loaded sprayable gelatin hydrogel dressings for diabetic wound healing. Acta Biomaterialia, 2016, 38, 59-68.	8.3	142
36	Biomaterialâ€Based Approaches to Address Vein Graft and Hemodialysis Access Failures. Macromolecular Rapid Communications, 2016, 37, 1860-1880.	3.9	9

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37	Dual Enzyme-Triggered In Situ Crosslinkable Gelatin Hydrogels for Artificial Cellular Microenvironments. Macromolecular Bioscience, 2016, 16, 1570-1576.	4.1	23
38	Multiphoton imaging of myogenic differentiation in gelatin-based hydrogels as tissue engineering scaffolds. Biomaterials Research, 2016, 20, 2.	6.9	20
39	Enhanced Cellular Activity in Gelatinâ€Poly(Ethylene Glycol) Hydrogels without Compromising Gel Stiffness. Macromolecular Bioscience, 2016, 16, 334-340.	4.1	27
40	Hierarchical self-assembly of magnetic nanoclusters for theranostics: Tunable size, enhanced magnetic resonance imagability, and controlled and targeted drug delivery. Acta Biomaterialia, 2016, 35, 109-117.	8.3	52
41	Enhanced Patency and Endothelialization of Small-Caliber Vascular Grafts Fabricated by Coimmobilization of Heparin and Cell-Adhesive Peptides. ACS Applied Materials & Interfaces, 2016, 8, 4336-4346.	8.0	98
42	Heparin nanogel-containing liposomes for intracellular RNase delivery. Macromolecular Research, 2015, 23, 765-769.	2.4	26
43	Injectable and mechanically robust 4-arm PPOâ€“PEO/graphene oxide composite hydrogels for biomedical applications. Chemical Communications, 2015, 51, 8876-8879.	4.1	31
44	Horseradish peroxidase-catalysedin situ-forming hydrogels for tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1225-1232.	2.7	102
45	In Situ Crosslinkable Gelatin Hydrogels for Vasculogenic Induction and Delivery of Mesenchymal Stem Cells. Advanced Functional Materials, 2014, 24, 6771-6781.	14.9	69
46	Enzyme-catalyzed in situ forming gelatin hydrogels as bioactive wound dressings: effects of fibroblast delivery on wound healing efficacy. Journal of Materials Chemistry B, 2014, 2, 7712-7718.	5.8	68
47	In situ formation of enzyme-free hydrogels via ferromagnetic microbead-assisted enzymatic cross-linking. Chemical Communications, 2014, 50, 13710-13713.	4.1	16
48	Macro/Nano-Gel Composite as an Injectable and Bioactive Bulking Material for the Treatment of Urinary Incontinence. Biomacromolecules, 2014, 15, 1979-1984.	5.4	25
49	In situ forming gelatin-based tissue adhesives and their phenolic content-driven properties. Journal of Materials Chemistry B, 2013, 1, 2407.	5.8	108
50	Facile surface PEGylation via tyrosinase-catalyzed oxidative reaction for the preparation of non-fouling surfaces. Colloids and Surfaces B: Biointerfaces, 2013, 102, 585-589.	5.0	11
51	Synthesis and Characterizations of In Situ Cross-Linkable Gelatin and 4-Arm-PPO-PEO Hybrid Hydrogels via Enzymatic Reaction for Tissue Regenerative Medicine. Biomacromolecules, 2012, 13, 604-611.	5.4	81
52	In Situ SVVYGLR Peptide Conjugation into Injectable Gelatin-Poly(ethylene glycol)-Tyramine Hydrogel via Enzyme-Mediated Reaction for Enhancement of Endothelial Cell Activity and Neo-Vascularization. Bioconjugate Chemistry, 2012, 23, 2042-2050.	3.6	55