

Kisuk Yang

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,320
citations

201385

27
h-index

205818

48
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51
all docs

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docs citations

51
times ranked

5418
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. <i>Advanced Functional Materials</i> , 2015, 25, 3814-3824.	7.8	351
2	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. <i>Biomaterials</i> , 2012, 33, 6952-6964.	5.7	311
3	Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering. <i>Advanced Functional Materials</i> , 2013, 23, 1774-1780.	7.8	246
4	Overcoming the translational barriers of tissue adhesives. <i>Nature Reviews Materials</i> , 2020, 5, 310-329.	23.8	213
5	Polydopamine-Assisted Osteoinductive Peptide Immobilization of Polymer Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. <i>Biomacromolecules</i> , 2013, 14, 3202-3213.	2.6	196
6	Nanotopographical Manipulation of Focal Adhesion Formation for Enhanced Differentiation of Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10529-10540.	4.0	155
7	Three-Dimensional Electroconductive Hyaluronic Acid Hydrogels Incorporated with Carbon Nanotubes and Polypyrrole by Catechol-Mediated Dispersion Enhance Neurogenesis of Human Neural Stem Cells. <i>Biomacromolecules</i> , 2017, 18, 3060-3072.	2.6	144
8	Polypyrrole/Alginate Hybrid Hydrogels: Electrically Conductive and Soft Biomaterials for Human Mesenchymal Stem Cell Culture and Potential Neural Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2016, 16, 1653-1661.	2.1	133
9	Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. <i>ACS Nano</i> , 2014, 8, 7809-7822.	7.3	132
10	Catechol-Functionalized Hyaluronic Acid Hydrogels Enhance Angiogenesis and Osteogenesis of Human Adipose-Derived Stem Cells in Critical Tissue Defects. <i>Biomacromolecules</i> , 2016, 17, 1939-1948.	2.6	113
11	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013, 34, 7236-7246.	5.7	109
12	Paper-based bioactive scaffolds for stem cell-mediated bone tissue engineering. <i>Biomaterials</i> , 2014, 35, 9811-9823.	5.7	93
13	Fungal brain infection modelled in a human-neurovascular-unit-on-a-chip with a functional blood-brain barrier. <i>Nature Biomedical Engineering</i> , 2021, 5, 830-846.	11.6	83
14	Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17763-17774.	4.0	81
15	Switchable Water-Adhesive, Superhydrophobic Palladium-Layered Silicon Nanowires Potentiate the Angiogenic Efficacy of Human Stem Cell Spheroids. <i>Advanced Materials</i> , 2014, 26, 7043-7050.	11.1	73
16	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. <i>Nanoscale</i> , 2017, 9, 18737-18752.	2.8	72
17	Recapitulation of in vivo-like paracrine signals of human mesenchymal stem cells for functional neuronal differentiation of human neural stem cells in a 3D microfluidic system. <i>Biomaterials</i> , 2015, 63, 177-188.	5.7	67
18	Three-dimensional extracellular matrix-mediated neural stem cell differentiation in a microfluidic device. <i>Lab on A Chip</i> , 2012, 12, 2305.	3.1	61

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19	Bio-inspired oligovitronectin-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. <i>Biomaterials</i> , 2015, 50, 127-139.	5.7	59
20	Reconstituting Vascular Microenvironment of Neural Stem Cell Niche in Three-Dimensional Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2014, 3, 1457-1464.	3.9	58
21	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. <i>Chemistry of Materials</i> , 2017, 29, 4375-4384.	3.2	56
22	Biodegradable Nanotopography Combined with Neurotrophic Signals Enhances Contact Guidance and Neuronal Differentiation of Human Neural Stem Cells. <i>Macromolecular Bioscience</i> , 2015, 15, 1348-1356.	2.1	53
23	A microfluidic array for quantitative analysis of human neural stem cell self-renewal and differentiation in three-dimensional hypoxic microenvironment. <i>Biomaterials</i> , 2013, 34, 6607-6614.	5.7	44
24	Nanostructured Tendon-Derived Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22819-22829.	4.0	33
25	Photoactive Poly(3-hexylthiophene) Nanoweb for Optoelectrical Stimulation to Enhance Neurogenesis of Human Stem Cells. <i>Theranostics</i> , 2017, 7, 4591-4604.	4.6	31
26	In Situ Bone Tissue Engineering With an Endogenous Stem Cell Mobilizer and Osteoinductive Nanofibrous Polymeric Scaffolds. <i>Biotechnology Journal</i> , 2017, 12, 1700062.	1.8	30
27	Biodegradable Nerve Guidance Conduit with Microporous and Micropatterned Poly(lactic acid-co-glycolic acid)-Accelerated Sciatic Nerve Regeneration. <i>Macromolecular Bioscience</i> , 2018, 18, e1800290.	2.1	29
28	A therapeutic convection-enhanced macroencapsulation device for enhancing \hat{I}^2 cell viability and insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	29
29	Mussel Adhesion-Inspired Reverse Transfection Platform Enhances Osteogenic Differentiation and Bone Formation of Human Adipose-Derived Stem Cells. <i>Small</i> , 2016, 12, 6266-6278.	5.2	25
30	Spheriform: Therapeutic Spheroid-Forming Nanotextured Surfaces Inspired by Desert Beetle <i>Physosterna cribripes</i> . <i>Advanced Healthcare Materials</i> , 2015, 4, 511-515.	3.9	24
31	Photoactivation of Noncovalently Assembled Peptide Ligands on Carbon Nanotubes Enables the Dynamic Regulation of Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26470-26481.	4.0	22
32	Magnetic Control of Axon Navigation in Reprogrammed Neurons. <i>Nano Letters</i> , 2019, 19, 6517-6523.	4.5	22
33	A 3D culture platform enables development of zinc-binding prodrugs for targeted proliferation of \hat{I}^2 cells. <i>Science Advances</i> , 2020, 6, .	4.7	22
34	Enhanced Self-Renewal and Accelerated Differentiation of Human Fetal Neural Stem Cells Using Graphene Oxide Nanoparticles. <i>Macromolecular Bioscience</i> , 2017, 17, 1600540.	2.1	19
35	Strong contact coupling of neuronal growth cones with height-controlled vertical silicon nanocolumns. <i>Nano Research</i> , 2018, 11, 2532-2543.	5.8	17
36	Implantable microfluidic device for the formation of three-dimensional vasculature by human endothelial progenitor cells. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 379-385.	1.4	16

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37	Surface Chemistry of Vitamin: Pyridoxal 5â€²â€²Phosphate (Vitamin B₆) as a Multifunctional Compound for Surface Functionalization. <i>Advanced Functional Materials</i> , 2015, 25, 4754-4760.	7.8	16
38	Ferritin nanoparticles for improved self-renewal and differentiation of human neural stem cells. <i>Biomaterials Research</i> , 2018, 22, 5.	3.2	16
39	A resistance-sensing mechanical injector for the precise delivery of liquids to target tissue. <i>Nature Biomedical Engineering</i> , 2019, 3, 621-631.	11.6	15
40	A Fluorescent Tile DNA Diagnocode System for In Situ Rapid and Selective Diagnosis of Cytosolic RNA Cancer Markers. <i>Scientific Reports</i> , 2015, 5, 18497.	1.6	13
41	Engineering Biomaterials for Feeder-Free Maintenance of Human Pluripotent Stem Cells. <i>International Journal of Stem Cells</i> , 2012, 5, 1-5.	0.8	9
42	Endothelial-neurosphere crosstalk in microwell arrays regulates self-renewal and differentiation of human neural stem cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 74, 148-157.	2.9	6
43	Osteogenic priming of mesenchymal stem cells by chondrocyte-conditioned factors and mineralized matrix. <i>Cell and Tissue Research</i> , 2015, 362, 115-126.	1.5	5
44	Fluorescence-coded DNA Nanostructure Probe System to Enable Discrimination of Tumor Heterogeneity via a Screening of Dual Intracellular microRNA Signatures in situ. <i>Scientific Reports</i> , 2017, 7, 13499.	1.6	5
45	Tissue Reconstruction: Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy (<i>Adv. Funct. Mater.</i> 25/2015). <i>Advanced Functional Materials</i> , 2015, 25, 3798-3798.	7.8	3
46	Bioinspired Materials: Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering (<i>Adv. Funct. Mater.</i> 14/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1856-1856.	7.8	2