

# Oju Jeon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9083168/publications.pdf>

Version: 2024-02-01

77  
papers

6,435  
citations

76196

40  
h-index

85405

71  
g-index

80  
all docs

80  
docs citations

80  
times ranked

8847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(lactide-co-glycolide)/hydroxyapatite composite scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2006, 27, 1399-1409.	5.7	710
2	Photocrosslinked alginate hydrogels with tunable biodegradation rates and mechanical properties. <i>Biomaterials</i> , 2009, 30, 2724-2734.	5.7	511
3	Engineered polymers for advanced drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 420-430.	2.0	298
4	Enhancement of ectopic bone formation by bone morphogenetic protein-2 released from a heparin-conjugated poly(l-lactic-co-glycolic acid) scaffold. <i>Biomaterials</i> , 2007, 28, 2763-2771.	5.7	244
5	Affinity-based growth factor delivery using biodegradable, photocrosslinked heparin-alginate hydrogels. <i>Journal of Controlled Release</i> , 2011, 154, 258-266.	4.8	221
6	3D Bioprinting of Developmentally Inspired Templates for Whole Bone Organ Engineering. <i>Advanced Healthcare Materials</i> , 2016, 5, 2353-2362.	3.9	209
7	Long-term and zero-order release of basic fibroblast growth factor from heparin-conjugated poly(l-lactide-co-glycolide) nanospheres and fibrin gel. <i>Biomaterials</i> , 2006, 27, 1598-1607.	5.7	173
8	Control of basic fibroblast growth factor release from fibrin gel with heparin and concentrations of fibrinogen and thrombin. <i>Journal of Controlled Release</i> , 2005, 105, 249-259.	4.8	170
9	Long-term delivery enhances in vivo osteogenic efficacy of bone morphogenetic protein-2 compared to short-term delivery. <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 774-780.	1.0	170
10	The effect of oxidation on the degradation of photocrosslinkable alginate hydrogels. <i>Biomaterials</i> , 2012, 33, 3503-3514.	5.7	167
11	Mechanical properties and degradation behaviors of hyaluronic acid hydrogels cross-linked at various cross-linking densities. <i>Carbohydrate Polymers</i> , 2007, 70, 251-257.	5.1	166
12	Localized and Sustained Delivery of Silencing RNA from Macroscopic Biopolymer Hydrogels. <i>Journal of the American Chemical Society</i> , 2009, 131, 9204-9206.	6.6	165
13	Individual cell-only bioink and photocurable supporting medium for 3D printing and generation of engineered tissues with complex geometries. <i>Materials Horizons</i> , 2019, 6, 1625-1631.	6.4	161
14	Synthesis and Characterization of Poly(l-lactide)- <i>b</i> -Poly( $\mu$ -caprolactone) Multiblock Copolymers. <i>Macromolecules</i> , 2003, 36, 5585-5592.	2.2	160
15	Cryopreserved cell-laden alginate microgel bioink for 3D bioprinting of living tissues. <i>Materials Today Chemistry</i> , 2019, 12, 61-70.	1.7	140
16	Sustained localized presentation of RNA interfering molecules from in situ forming hydrogels to guide stem cell osteogenic differentiation. <i>Biomaterials</i> , 2014, 35, 6278-6286.	5.7	132
17	Effects of cardiac patches engineered with bone marrow-derived mononuclear cells and PGCL scaffolds in a rat myocardial infarction model. <i>Biomaterials</i> , 2007, 28, 641-649.	5.7	121
18	The effect of cyclic strain on embryonic stem cell-derived cardiomyocytes. <i>Biomaterials</i> , 2008, 29, 844-856.	5.7	114

#	ARTICLE	IF	CITATIONS
19	Poly(lactic-co-glycolic acid) Microspheres as an Injectable Scaffold for Cartilage Tissue Engineering. <i>Tissue Engineering</i> , 2005, 11, 438-447.	4.9	111
20	<i>In Vivo</i> Bone Formation Following Transplantation of Human Adipose-Derived Stromal Cells That Are Not Differentiated Osteogenically. <i>Tissue Engineering - Part A</i> , 2008, 14, 1285-1294.	1.6	108
21	Biodegradable, Photocrosslinked Alginate Hydrogels with Independently Tailorable Physical Properties and Cell Adhesivity. <i>Tissue Engineering - Part A</i> , 2010, 16, 2915-2925.	1.6	101
22	Single and dual crosslinked oxidized methacrylated alginate/PEG hydrogels for bioadhesive applications. <i>Acta Biomaterialia</i> , 2014, 10, 47-55.	4.1	98
23	Three-Dimensional Bioprinting of Polycaprolactone Reinforced Gene Activated Bioinks for Bone Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017, 23, 891-900.	1.6	98
24	3D printing of fibre-reinforced cartilaginous templates for the regeneration of osteochondral defects. <i>Acta Biomaterialia</i> , 2020, 113, 130-143.	4.1	97
25	In Situ Formation of Growth Factor-Loaded Coacervate Microparticle-Embedded Hydrogels for Directing Encapsulated Stem Cell Fate. <i>Advanced Materials</i> , 2015, 27, 2216-2223.	11.1	96
26	Real-time in situ rheology of alginate hydrogel photocrosslinking. <i>Soft Matter</i> , 2011, 7, 11510.	1.2	95
27	Biochemical and Physical Signal Gradients in Hydrogels to Control Stem Cell Behavior. <i>Advanced Materials</i> , 2013, 25, 6366-6372.	11.1	88
28	RNA interfering molecule delivery from in situ forming biodegradable hydrogels for enhancement of bone formation in rat calvarial bone defects. <i>Acta Biomaterialia</i> , 2018, 75, 105-114.	4.1	81
29	Suspension Culture of Mammalian Cells Using Thermosensitive Microcarrier that Allows Cell Detachment without Proteolytic Enzyme Treatment. <i>Cell Transplantation</i> , 2010, 19, 1123-1132.	1.2	77
30	Highly Elastic and Tough Interpenetrating Polymer Network-Structured Hybrid Hydrogels for Cyclic Mechanical Loading-Enhanced Tissue Engineering. <i>Chemistry of Materials</i> , 2017, 29, 8425-8432.	3.2	70
31	Nanosphere-mediated delivery of vascular endothelial growth factor gene for therapeutic angiogenesis in mouse ischemic limbs. <i>Biomaterials</i> , 2008, 29, 1109-1117.	5.7	62
32	Photofunctionalization of Alginate Hydrogels to Promote Adhesion and Proliferation of Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2013, 19, 1424-1432.	1.6	61
33	Endochondral Ossification in Critical-Sized Bone Defects via Readily Implantable Scaffold-Free Stem Cell Constructs. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1644-1659.	1.6	53
34	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
35	High-throughput approaches for screening and analysis of cell behaviors. <i>Biomaterials</i> , 2018, 153, 85-101.	5.7	52
36	Heparin-conjugated polyethylenimine for gene delivery. <i>Journal of Controlled Release</i> , 2008, 132, 236-242.	4.8	49

#	ARTICLE	IF	CITATIONS
37	Biodegradable photo-crosslinked alginate nanofibre scaffolds with tuneable physical properties, cell adhesivity and growth factor release. , 2012, 24, 331-343.		49
38	Jammed Microflake Hydrogel for Four-Dimensional Living Cell Bioprinting. Advanced Materials, 2022, 34, e2109394.	11.1	49
39	Bone Morphogenetic Protein-2 Promotes Human Mesenchymal Stem Cell Survival and Resultant Bone Formation When Entrapped in Photocrosslinked Alginate Hydrogels. Advanced Healthcare Materials, 2016, 5, 2501-2509.	3.9	45
40	Poly(L-lactide-co-glycolide) nanospheres conjugated with a nuclear localization signal for delivery of plasmid DNA. Journal of Drug Targeting, 2007, 15, 190-198.	2.1	43
41	Additive effect of endothelial progenitor cell mobilization and bone marrow mononuclear cell transplantation on angiogenesis in mouse ischemic limbs. Journal of Biomedical Science, 2007, 14, 323-330.	2.6	43
42	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cell-based cartilage tissue engineering. Science Advances, 2020, 6, eaaz5913.	4.7	42
43	Controlled release of nerve growth factor from fibrin gel. Journal of Biomedical Materials Research - Part A, 2007, 80A, 998-1002.	2.1	40
44	Cell-Laden Multiple-Step and Reversible 4D Hydrogel Actuators to Mimic Dynamic Tissue Morphogenesis. Advanced Science, 2021, 8, 2004616.	5.6	40
45	Spatial Micropatterning of Growth Factors in 3D Hydrogels for Location-Specific Regulation of Cellular Behaviors. Small, 2018, 14, e1800579.	5.2	39
46	Induction of Four-Dimensional Spatiotemporal Geometric Transformations in High Cell Density Tissues via Shape-Changing Hydrogels. Advanced Functional Materials, 2021, 31, 2010104.	7.8	39
47	Regulation of Stem Cell Fate in a Three-Dimensional Micropatterned Dual-Crosslinked Hydrogel System. Advanced Functional Materials, 2013, 23, 4765-4775.	7.8	36
48	Interconnectable Dynamic Compression Bioreactors for Combinatorial Screening of Cell Mechanobiology in Three Dimensions. ACS Applied Materials & Interfaces, 2018, 10, 13293-13303.	4.0	36
49	A Modular Strategy to Engineer Complex Tissues and Organs. Advanced Science, 2018, 5, 1700402.	5.6	34
50	Preliminary experience with tissue engineering of a venous vascular patch by using bone marrow-derived cells and a hybrid biodegradable polymer scaffold. Journal of Vascular Surgery, 2006, 44, 1329-1340.	0.6	32
51	Synergistic effect of sustained delivery of basic fibroblast growth factor and bone marrow mononuclear cell transplantation on angiogenesis in mouse ischemic limbs. Biomaterials, 2006, 27, 1617-1625.	5.7	31
52	Dual-crosslinked hydrogel microwell system for formation and culture of multicellular human adipose tissue-derived stem cell spheroids. Journal of Materials Chemistry B, 2016, 4, 3526-3533.	2.9	31
53	Hypoxia mimicking hydrogels to regulate the fate of transplanted stem cells. Acta Biomaterialia, 2019, 88, 314-324.	4.1	31
54	Tissue-engineered blood vessels with endothelial nitric oxide synthase activity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 537-546.	1.6	30

#	ARTICLE	IF	CITATIONS
55	Micropatterning: Regulation of Stem Cell Fate in a Three-Dimensional Micropatterned Dual-Crosslinked Hydrogel System (Adv. Funct. Mater. 38/2013). Advanced Functional Materials, 2013, 23, 4764-4764.	7.8	30
56	Controlled and sustained gene delivery from injectable, porous PLGA scaffolds. Journal of Biomedical Materials Research - Part A, 2011, 98A, 72-79.	2.1	27
57	Spatial Control of Cell Gene Expression by siRNA Gradients in Biodegradable Hydrogels. Advanced Healthcare Materials, 2015, 4, 714-722.	3.9	25
58	A Light-Curable and Tunable Extracellular Matrix Hydrogel for In Situ Suture-Free Corneal Repair. Advanced Functional Materials, 2022, 32, .	7.8	25
59	Effects of culture conditions on osteogenic differentiation in human mesenchymal stem cells. Journal of Microbiology and Biotechnology, 2007, 17, 1113-9.	0.9	24
60	Combined Sustained Delivery of Basic Fibroblast Growth Factor and Administration of Granulocyte Colony-Stimulating Factor: Synergistic Effect on Angiogenesis in Mouse Ischemic Limbs. Journal of Endovascular Therapy, 2006, 13, 175-181.	0.8	22
61	RALA complexed $\beta$ -TCP nanoparticle delivery to mesenchymal stem cells induces bone formation in tissue engineered constructs in vitro and in vivo. Journal of Materials Chemistry B, 2017, 5, 1753-1764.	2.9	19
62	Stem cell-laden hydrogel bioink for generation of high resolution and fidelity engineered tissues with complex geometries. Bioactive Materials, 2022, 15, 185-193.	8.6	17
63	Human Cardiac Mesenchymal Stem Cells Remodel in Disease and Can Regulate Arrhythmia Substrates. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008740.	2.1	15
64	An <i>in-situ</i> photocrosslinking microfluidic technique to generate non-spherical, cytocompatible, degradable, monodisperse alginate microgels for chondrocyte encapsulation. Biomicrofluidics, 2018, 12, 014106.	1.2	13
65	The effect of microsphere degradation rate on the efficacy of polymeric microspheres as bulking agents: An 18-month follow-up study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 253-259.	1.6	12
66	<i>In-situ</i> photopolymerization of monodisperse and discoid oxidized methacrylated alginate microgels in a microfluidic channel. Biomicrofluidics, 2016, 10, 011101.	1.2	11
67	Reversible dynamic mechanics of hydrogels for regulation of cellular behavior. Acta Biomaterialia, 2021, 136, 88-98.	4.1	11
68	3D Bioprinting: 3D Bioprinting of Developmentally Inspired Templates for Whole Bone Organ Engineering (Adv. Healthcare Mater. 18/2016). Advanced Healthcare Materials, 2016, 5, 2352-2352.	3.9	3
69	The Healing Effect of Bone Morphogenic Protein with Fibrin Glue on an Injury of the Tendon-Bone Junction. The Journal of the Korean Orthopaedic Association, 2007, 42, 115.	0.0	3
70	Tissue Engineering: A Modular Strategy to Engineer Complex Tissues and Organs (Adv. Sci. 5/2018). Advanced Science, 2018, 5, 1870028.	5.6	2
71	Four-Dimensional Materials: Induction of Four-Dimensional Spatiotemporal Geometric Transformations in High Cell Density Tissues via Shape-Changing Hydrogels (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT2/Overlo		
72	Jammed Microflake Hydrogel for Four-Dimensional Living Cell Bioprinting (Adv. Mater. 15/2022). Advanced Materials, 2022, 34, .	11.1	1

#	ARTICLE	IF	CITATIONS
73	Synthesis and Characterization of Polyethylenimine-Graft-Poly(L-Lactide-Co-Glycolide) Block Copolymers for Gene Delivery. <i>Key Engineering Materials</i> , 2007, 342-343, 521-524.	0.4	0
74	Tissue-Engineered Blood Vessels With Endothelial Nitric Oxide Synthase Activity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 302-302.	1.6	0
75	Tissue Regeneration: Spatial Control of Cell Gene Expression by siRNA Gradients in Biodegradable Hydrogels ( <i>Adv. Healthcare Mater.</i> 5/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 784-784.	3.9	0
76	Hydrogels: In-Situ Formation of Growth-Factor-Loaded Coacervate Microparticle-Embedded Hydrogels for Directing Encapsulated Stem Cell Fate ( <i>Adv. Mater.</i> 13/2015). <i>Advanced Materials</i> , 2015, 27, 2215-2215.	11.1	0
77	Osteogenesis: Bone Morphogenetic Protein-2 Promotes Human Mesenchymal Stem Cell Survival and Resultant Bone Formation When Entrapped in Photocrosslinked Alginate Hydrogels ( <i>Adv. Healthcare</i> ) <i>Tj ETQq1 1 03784314 rgBT /Ovel</i>	11.1	0