

# James J Yoo

## List of Publications by Year in descending order

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138  
papers

12,603  
citations

66343

42  
h-index

24982

109  
g-index

141  
all docs

141  
docs citations

141  
times ranked

12966  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D bioprinting system to produce human-scale tissue constructs with structural integrity. <i>Nature Biotechnology</i> , 2016, 34, 312-319.	17.5	2,078
2	Tissue-engineered autologous bladders for patients needing cystoplasty. <i>Lancet, The</i> , 2006, 367, 1241-1246.	13.7	1,690
3	The influence of electrospun aligned poly( $\epsilon$ -caprolactone)/collagen nanofiber meshes on the formation of self-aligned skeletal muscle myotubes. <i>Biomaterials</i> , 2008, 29, 2899-2906.	11.4	558
4	Precisely printable and biocompatible silk fibroin bioink for digital light processing 3D printing. <i>Nature Communications</i> , 2018, 9, 1620.	12.8	520
5	Biofabrication strategies for 3D in vitro models and regenerative medicine. <i>Nature Reviews Materials</i> , 2018, 3, 21-37.	48.7	502
6	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018, 36, 384-402.	9.3	465
7	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. <i>Scientific Reports</i> , 2017, 7, 8837.	3.3	407
8	Optimization of gelatin-alginate composite bioink printability using rheological parameters: a systematic approach. <i>Biofabrication</i> , 2018, 10, 034106.	7.1	336
9	Decellularization methods of porcine kidneys for whole organ engineering using a high-throughput system. <i>Biomaterials</i> , 2012, 33, 7756-7764.	11.4	318
10	In Situ Bioprinting of Autologous Skin Cells Accelerates Wound Healing of Extensive Excisional Full-Thickness Wounds. <i>Scientific Reports</i> , 2019, 9, 1856.	3.3	297
11	A 3D bioprinted complex structure for engineering the muscle-tendon unit. <i>Biofabrication</i> , 2015, 7, 035003.	7.1	293
12	Bioprinting technology and its applications. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 46, 342-348.	1.4	271
13	<i>In vitro</i> evaluation of electrospun nanofiber scaffolds for vascular graft application. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 999-1008.	4.0	239
14	3D bioprinted functional and contractile cardiac tissue constructs. <i>Acta Biomaterialia</i> , 2018, 70, 48-56.	8.3	227
15	Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , 2020, 12, 022003.	7.1	214
16	In situ tissue regeneration through host stem cell recruitment. <i>Experimental and Molecular Medicine</i> , 2013, 45, e57-e57.	7.7	202
17	Tissue-engineered autologous vaginal organs in patients: a pilot cohort study. <i>Lancet, The</i> , 2014, 384, 329-336.	13.7	185
18	3D Bioprinted Human Skeletal Muscle Constructs for Muscle Function Restoration. <i>Scientific Reports</i> , 2018, 8, 12307.	3.3	166

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19	A Photo-crosslinkable Kidney ECM-Derived Bioink Accelerates Renal Tissue Formation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1800992.	7.6	162
20	A Tissue-Engineered Muscle Repair Construct for Functional Restoration of an Irrecoverable Muscle Injury in a Murine Model. <i>Tissue Engineering - Part A</i> , 2011, 17, 2291-2303.	3.1	151
21	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. <i>Nature Communications</i> , 2020, 11, 1025.	12.8	130
22	Bioengineered transplantable porcine livers with re-endothelialized vasculature. <i>Biomaterials</i> , 2015, 40, 72-79.	11.4	127
23	Engineered small diameter vascular grafts by combining cell sheet engineering and electrospinning technology. <i>Acta Biomaterialia</i> , 2015, 16, 14-22.	8.3	121
24	Efficient myotube formation in 3D bioprinted tissue construct by biochemical and topographical cues. <i>Biomaterials</i> , 2020, 230, 119632.	11.4	120
25	A novel tissue-engineered trachea with a mechanical behavior similar to native trachea. <i>Biomaterials</i> , 2015, 62, 106-115.	11.4	110
26	High-Throughput Production of Single-Cell Microparticles Using an Inkjet Printing Technology. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	2.2	102
27	Electrospun vascular scaffold for cellularized small diameter blood vessels: A preclinical large animal study. <i>Acta Biomaterialia</i> , 2017, 59, 58-67.	8.3	91
28	Understanding the Role of Growth Factors in Modulating Stem Cell Tenogenesis. <i>PLoS ONE</i> , 2013, 8, e83734.	2.5	90
29	Skin bioprinting: the future of burn wound reconstruction?. <i>Burns and Trauma</i> , 2019, 7, 4.	4.9	84
30	A photo-crosslinkable cartilage-derived extracellular matrix bioink for auricular cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2021, 121, 193-203.	8.3	81
31	Bioprinted Skin Recapitulates Normal Collagen Remodeling in Full-Thickness Wounds. <i>Tissue Engineering - Part A</i> , 2020, 26, 512-526.	3.1	79
32	Combined systemic and local delivery of stem cell inducing/recruiting factors for <i>in situ</i> tissue regeneration. <i>FASEB Journal</i> , 2012, 26, 158-168.	0.5	72
33	Bioengineered self-seeding heart valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 143, 201-208.	0.8	70
34	In situ regeneration of skeletal muscle tissue through host cell recruitment. <i>Acta Biomaterialia</i> , 2014, 10, 4332-4339.	8.3	68
35	Repopulation of porcine kidney scaffold using porcine primary renal cells. <i>Acta Biomaterialia</i> , 2016, 29, 52-61.	8.3	67
36	Solid Organ Bioprinting: Strategies to Achieve Organ Function. <i>Chemical Reviews</i> , 2020, 120, 11093-11127.	47.7	62

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37	3D bioprinted biomask for facial skin reconstruction. <i>Bioprinting</i> , 2018, 10, e00028.	5.8	56
38	A tissue-engineered uterus supports live births in rabbits. <i>Nature Biotechnology</i> , 2020, 38, 1280-1287.	17.5	55
39	Host Cell Mobilization for <i>In Situ</i> Tissue Regeneration. <i>Rejuvenation Research</i> , 2008, 11, 747-756.	1.8	53
40	Three-dimensional cell-based bioprinting for soft tissue regeneration. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 647-662.	3.7	50
41	Kidney diseases and tissue engineering. <i>Methods</i> , 2016, 99, 112-119.	3.8	50
42	Combinations of photoinitiator and UV absorber for cell-based digital light processing (DLP) bioprinting. <i>Biofabrication</i> , 2021, 13, 034103.	7.1	50
43	The effect of BMP-mimetic peptide tethering bioinks on the differentiation of dental pulp stem cells (DPSCs) in 3D bioprinted dental constructs. <i>Biofabrication</i> , 2020, 12, 035029.	7.1	49
44	Comparative analysis of two porcine kidney decellularization methods for maintenance of functional vascular architectures. <i>Acta Biomaterialia</i> , 2018, 75, 226-234.	8.3	48
45	Effect of Hierarchical Scaffold Consisting of Aligned dECM Nanofibers and Poly(lactide-co-glycolide) Struts on the Orientation and Maturation of Human Muscle Progenitor Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39449-39458.	8.0	46
46	Engineered multilayer ovarian tissue that secretes sex steroids and peptide hormones in response to gonadotropins. <i>Biomaterials</i> , 2013, 34, 2412-2420.	11.4	43
47	Enhanced re-endothelialization of acellular kidney scaffolds for whole organ engineering via antibody conjugation of vasculatures. <i>Technology</i> , 2014, 02, 243-253.	1.4	43
48	In vitro reconstitution of human kidney structures for renal cell therapy. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 3082-3090.	0.7	42
49	Decellularized Skin Extracellular Matrix (dsECM) Improves the Physical and Biological Properties of Fibrinogen Hydrogel for Skin Bioprinting Applications. <i>Nanomaterials</i> , 2020, 10, 1484.	4.1	41
50	Endothelialization of Heart Valve Matrix Using a Computer-Assisted Pulsatile Bioreactor. <i>Tissue Engineering - Part A</i> , 2009, 15, 807-814.	3.1	40
51	NIR fluorescence for monitoring in vivo scaffold degradation along with stem cell tracking in bone tissue engineering. <i>Biomaterials</i> , 2020, 258, 120267.	11.4	40
52	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. <i>Chemistry of Materials</i> , 2020, 32, 8733-8746.	6.7	40
53	Regenerative Medicine Strategies for Treating Neurogenic Bladder. <i>International Neurourology Journal</i> , 2011, 15, 109-119.	1.2	40
54	A novel decellularized skeletal muscle-derived ECM scaffolding system for in situ muscle regeneration. <i>Methods</i> , 2020, 171, 77-85.	3.8	39

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55	Fabrication of biomimetic vascular scaffolds for 3D tissue constructs using vascular corrosion casts. <i>Acta Biomaterialia</i> , 2016, 32, 190-197.	8.3	38
56	Structure establishment of three-dimensional (3D) cell culture printing model for bladder cancer. <i>PLoS ONE</i> , 2019, 14, e0223689.	2.5	38
57	The Role of the Microenvironment in Controlling the Fate of Bioprinted Stem Cells. <i>Chemical Reviews</i> , 2020, 120, 11056-11092.	47.7	37
58	The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. <i>Tissue Engineering - Part A</i> , 2020, 26, 1349-1358.	3.1	36
59	In vivo transplantation of 3D encapsulated ovarian constructs in rats corrects abnormalities of ovarian failure. <i>Nature Communications</i> , 2017, 8, 1858.	12.8	35
60	Cell Therapy with Human Renal Cell Cultures Containing Erythropoietin-Positive Cells Improves Chronic Kidney Injury. <i>Stem Cells Translational Medicine</i> , 2012, 1, 373-383.	3.3	33
61	Self-aligned myofibers in 3D bioprinted extracellular matrix-based construct accelerate skeletal muscle function restoration. <i>Applied Physics Reviews</i> , 2021, 8, 021405.	11.3	33
62	The potential role of tissue-engineered urethral substitution: clinical and preclinical studies. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3-19.	2.7	32
63	Methods to generate tissue-derived constructs for regenerative medicine applications. <i>Methods</i> , 2020, 171, 3-10.	3.8	31
64	Bioartificial Kidneys. <i>Current Stem Cell Reports</i> , 2017, 3, 68-76.	1.6	29
65	Progressive Muscle Cell Delivery as a Solution for Volumetric Muscle Defect Repair. <i>Scientific Reports</i> , 2016, 6, 38754.	3.3	28
66	Bioengineering Strategies to Treat Female Infertility. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 294-306.	4.8	27
67	In Situ Tissue Regeneration of Renal Tissue Induced by Collagen Hydrogel Injection. <i>Stem Cells Translational Medicine</i> , 2018, 7, 241-250.	3.3	26
68	State-of-the-Art Strategies for the Vascularization of Three-Dimensional Engineered Organs. <i>Vascular Specialist International</i> , 2019, 35, 77-89.	0.6	26
69	Reno-protection of Urine-derived Stem Cells in A Chronic Kidney Disease Rat Model Induced by Renal Ischemia and Nephrotoxicity. <i>International Journal of Biological Sciences</i> , 2020, 16, 435-446.	6.4	26
70	Potential Use of Autologous Renal Cells from Diseased Kidneys for the Treatment of Renal Failure. <i>PLoS ONE</i> , 2016, 11, e0164997.	2.5	24
71	Kidney regeneration: Where we are and future perspectives. <i>World Journal of Nephrology</i> , 2014, 3, 24.	2.0	23
72	The Dose-Effect Safety Profile of Skeletal Muscle Precursor Cell Therapy in a Dog Model of Intrinsic Urinary Sphincter Deficiency. <i>Stem Cells Translational Medicine</i> , 2015, 4, 286-294.	3.3	23

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73	Encapsulation of Mesenchymal Stem Cells in 3D Ovarian Cell Constructs Promotes Stable and Long-Term Hormone Secretion with Improved Physiological Outcomes in a Syngeneic Rat Model. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1058-1070.	2.5	22
74	Clinically Relevant Bioprinting Workflow and Imaging Process for Tissue Construct Design and Validation. <i>3D Printing and Additive Manufacturing</i> , 2017, 4, 239-247.	2.9	21
75	Kidney regeneration with biomimetic vascular scaffolds based on vascular corrosion casts. <i>Acta Biomaterialia</i> , 2019, 95, 328-336.	8.3	21
76	Bioreactor design and validation for manufacturing strategies in tissue engineering. <i>Bio-Design and Manufacturing</i> , 2022, 5, 43-63.	7.7	21
77	Effects of Allogeneic Bone Marrow Derived Mesenchymal Stromal Cell Therapy on Voiding Function in a Rat Model of Parkinson Disease. <i>Journal of Urology</i> , 2014, 191, 850-859.	0.4	20
78	Cell-based therapy for kidney disease. <i>Korean Journal of Urology</i> , 2015, 56, 412.	1.2	19
79	Comparing adult renal stem cell identification, characterization and applications. <i>Journal of Biomedical Science</i> , 2017, 24, 32.	7.0	18
80	Bioprinting Au Natural: The Biologics of Biinks. <i>Biomolecules</i> , 2021, 11, 1593.	4.0	17
81	Bioprinted Scaffolds for Cartilage Tissue Engineering. <i>Methods in Molecular Biology</i> , 2015, 1340, 161-169.	0.9	15
82	Combination of small RNAs for skeletal muscle regeneration. <i>FASEB Journal</i> , 2016, 30, 1198-1206.	0.5	14
83	Microfluidic Systems for Assisted Reproductive Technologies: Advantages and Potential Applications. <i>Tissue Engineering and Regenerative Medicine</i> , 2020, 17, 787-800.	3.7	14
84	Can Computed Tomography-assisted Virtual Endoscopy Be an Innovative Tool for Detecting Urethral Tissue Pathologies?. <i>Urology</i> , 2014, 83, 930-938.	1.0	13
85	Dynamic Changes in Erectile Function and Histological Architecture After Intracorporal Injection of Human Placental Stem Cells in a Pelvic Neurovascular Injury Rat Model. <i>Journal of Sexual Medicine</i> , 2020, 17, 400-411.	0.6	13
86	Characterization of CD133 Antibody-Directed Recellularized Heart Valves. <i>Journal of Cardiovascular Translational Research</i> , 2015, 8, 411-420.	2.4	12
87	Controlled Delivery of Stem Cell-Derived Trophic Factors Accelerates Kidney Repair After Renal Ischemia-Reperfusion Injury in Rats. <i>Stem Cells Translational Medicine</i> , 2019, 8, 959-970.	3.3	12
88	Effect of Human Amniotic Fluid Stem Cells on Kidney Function in a Model of Chronic Kidney Disease. <i>Tissue Engineering - Part A</i> , 2019, 25, 1493-1503.	3.1	12
89	Applicability and Safety of in Vitro Skin Expansion Using a Skin Bioreactor: A Clinical Trial. <i>Archives of Plastic Surgery</i> , 2014, 41, 661-667.	0.9	12
90	Pre-Clinical Efficacy and Safety Evaluation of Human Amniotic Fluid-Derived Stem Cell Injection in a Mouse Model of Urinary Incontinence. <i>Yonsei Medical Journal</i> , 2015, 56, 648.	2.2	11

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91	Three-dimensional bioprinting for tissue engineering. , 2020, , 1391-1415.		10
92	Regenerative Medicine Approaches in Bioengineering Female Reproductive Tissues. Reproductive Sciences, 2021, 28, 1573-1595.	2.5	10
93	Enhanced method to select human oogonial stem cells for fertility research. Cell and Tissue Research, 2021, 386, 145-156.	2.9	10
94	In vitro breast cancer model with patient-specific morphological features for personalized medicine. Biofabrication, 2022, 14, 034102.	7.1	10
95	Self-Assembling Peptide Solution Accelerates Hemostasis. Advances in Wound Care, 2021, 10, 191-203.	5.1	9
96	Evaluation of cell viability and apoptosis in human amniotic fluid-derived stem cells with natural cryoprotectants. Cryobiology, 2014, 68, 244-250.	0.7	8
97	Bioactive Compounds for the Treatment of Renal Disease. Yonsei Medical Journal, 2018, 59, 1015.	2.2	8
98	Pelvic floor muscle function recovery using biofabricated tissue constructs with neuromuscular junctions. Acta Biomaterialia, 2021, 121, 237-249.	8.3	8
99	Total penile corpora cavernosa replacement using tissue engineering techniques. FASEB Journal, 2006, 20, A885.	0.5	8
100	Automated Image Analysis Methodologies to Compute Bioink Printability. Advanced Engineering Materials, 2021, 23, 2000900.	3.5	7
101	Accelerating neovascularization and kidney tissue formation with a 3D vascular scaffold capturing native vascular structure. Acta Biomaterialia, 2021, 124, 233-243.	8.3	7
102	Kidney regeneration approaches for translation. World Journal of Urology, 2020, 38, 2075-2079.	2.2	6
103	Administration of secretome from human placental stem cell-conditioned media improves recovery of erectile function in the pelvic neurovascular injury model. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1394-1402.	2.7	6
104	Myogenic-induced mesenchymal stem cells are capable of modulating the immune response by regulatory T cells. Journal of Tissue Engineering, 2014, 5, 204173141452475.	5.5	5
105	In vitro skin expansion: Wound healing assessment. Wound Repair and Regeneration, 2017, 25, 398-407.	3.0	5
106	Tissue engineering of the kidney. , 2020, , 825-843.		5
107	Functional recovery of denervated muscle by neurotization using nerve guidance channels. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 838-846.	2.7	4
108	Surgical Therapies and Tissue Engineering: At the Intersection Between Innovation and Regulation. Tissue Engineering - Part A, 2016, 22, 397-400.	3.1	4

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109	Optimized culture system to maximize ovarian cell growth and functionality in vitro. Cell and Tissue Research, 2021, 385, 161-171.	2.9	4
110	Engineering Functional Rat Ovarian Spheroids Using Granulosa and Theca Cells. Reproductive Sciences, 2021, 28, 1697-1708.	2.5	4
111	The Delivery of the Recombinant Protein Cocktail Identified by Stem Cell-Derived Secretome Analysis Accelerates Kidney Repair After Renal Ischemia-Reperfusion Injury. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	4
112	Electrospinning Fabrication of Collagen-based Scaffolds for Vascular Tissue Engineering. FASEB Journal, 2006, 20, A1101.	0.5	3
113	Bioink materials for translational applications. MRS Bulletin, 2022, 47, 80-90.	3.5	3
114	Three-dimensional printing in tissue engineering and regenerative medicine. Tissue Engineering and Regenerative Medicine, 2016, 13, 611-611.	3.7	2
115	Decellularization and recellularization strategies for translational medicine. Methods, 2020, 171, 1-2.	3.8	2
116	Applications of Organoids for Tissue Engineering and Regenerative Medicine. Tissue Engineering and Regenerative Medicine, 2020, 17, 729-730.	3.7	2
117	Tissue Engineered Tubularized Urethra for Surgical Reconstruction: A Pre-clinical Study. FASEB Journal, 2008, 22, 581.6.	0.5	2
118	Synergistic effect of CNTF and GDNF on directed neurite growth in chick embryo dorsal root ganglia. PLoS ONE, 2020, 15, e0240235.	2.5	2
119	Adenosine-treated bioprinted muscle constructs prolong cell survival and improve tissue formation. Bio-Design and Manufacturing, 2021, 4, 441-451.	7.7	1
120	Total Organ Replacement Using Tissue Engineering. FASEB Journal, 2007, 21, A140.	0.5	1
121	Bio-printing of living organized tissues using an inkjet technology. FASEB Journal, 2007, 21, A636.	0.5	1
122	Cell-derived Secretome for the Treatment of Renal Disease. Childhood Kidney Diseases, 2019, 23, 67-76.	0.4	1
123	Use of uniformly sized muscle fiber fragments for restoration of muscle tissue function. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1230-1240.	2.7	0
124	Preface. Current Stem Cell Research and Therapy, 2019, 14, 2-2.	1.3	0
125	Organized kidney tissue structures for the treatment of end stage renal disease. FASEB Journal, 2006, 20, A885.	0.5	0
126	Functional enhancement of bioreactor assisted engineered skeletal muscle. FASEB Journal, 2007, 21, A135.	0.5	0



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127	Three-Dimensional Tissue Printing Technology. Manuals in Biomedical Research, 2007, , 183-191.	0.0	0
128	A Composite Scaffold for the Engineering of Hollow Organs and Tissues. FASEB Journal, 2008, 22, 581.5.	0.5	0
129	Mouse Latissimus Dorsi as a model system for evaluating tissue engineered skeletal muscle. FASEB Journal, 2009, 23, 468.4.	0.5	0
130	Oxygen Generating Biomaterials for Ischemic Tissue Salvage and Function. FASEB Journal, 2010, 24, lb673.	0.5	0
131	Structure establishment of three-dimensional (3D) cell culture printing model for bladder cancer. , 2019, 14, e0223689.		0
132	Structure establishment of three-dimensional (3D) cell culture printing model for bladder cancer. , 2019, 14, e0223689.		0
133	Structure establishment of three-dimensional (3D) cell culture printing model for bladder cancer. , 2019, 14, e0223689.		0
134	Structure establishment of three-dimensional (3D) cell culture printing model for bladder cancer. , 2019, 14, e0223689.		0
135	Synergistic effect of CNTF and GDNF on directed neurite growth in chick embryo dorsal root ganglia. , 2020, 15, e0240235.		0
136	Synergistic effect of CNTF and GDNF on directed neurite growth in chick embryo dorsal root ganglia. , 2020, 15, e0240235.		0
137	Synergistic effect of CNTF and GDNF on directed neurite growth in chick embryo dorsal root ganglia. , 2020, 15, e0240235.		0
138	Synergistic effect of CNTF and GDNF on directed neurite growth in chick embryo dorsal root ganglia. , 2020, 15, e0240235.		0