Anthony J Atala

List of Publications by Year
in descending order

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676	57,321	729 120	1527 218
papers	citations	h-index	g-index

701	701	701	36945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D bioprinting of tissues and organs. Nature Biotechnology, 2014, 32, 773-785.	9.4	5,158
2	A 3D bioprinting system to produce human-scale tissue constructs with structural integrity. Nature Biotechnology, 2016, 34, 312-319.	9.4	2,078
3	Isolation of amniotic stem cell lines with potential for therapy. Nature Biotechnology, 2007, 25, 100-106.	9.4	1,739
4	Tissue-engineered autologous bladders for patients needing cystoplasty. Lancet, The, 2006, 367, 1241-1246.	6.3	1,690
5	Functional small-diameter neovessels created using endothelial progenitor cells expanded ex vivo. Nature Medicine, 2001, 7, 1035-1040.	15.2	784
6	De novo reconstitution of a functional mammalian urinary bladder by tissue engineering. Nature Biotechnology, 1999, 17, 149-155.	9.4	754
7	Bioprinting 3D microfibrous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. Biomaterials, 2016, 110, 45-59.	5.7	699
8	The use of whole organ decellularization for the generation of a vascularized liver organoid. Hepatology, 2011, 53, 604-617.	3.6	578
9	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2293-E2302.	3.3	570
10	The influence of electrospun aligned poly(É›-caprolactone)/collagen nanofiber meshes on the formation of self-aligned skeletal muscle myotubes. Biomaterials, 2008, 29, 2899-2906.	5.7	558
11	Bioprinted Amniotic Fluid-Derived Stem Cells Accelerate Healing of Large Skin Wounds. Stem Cells Translational Medicine, 2012, 1, 792-802.	1.6	539
12	Complex heterogeneous tissue constructs containing multiple cell types prepared by inkjet printing technology. Biomaterials, 2013, 34, 130-139.	5.7	518
13	Engineering Complex Tissues. Tissue Engineering, 2006, 12, 3307-3339.	4.9	513
14	Hybrid printing of mechanically and biologically improved constructs for cartilage tissue engineering applications. Biofabrication, 2013, 5, 015001.	3.7	475
15	A liver-on-a-chip platform with bioprinted hepatic spheroids. Biofabrication, 2016, 8, 014101.	3.7	466
16	Evaluation of hydrogels for bioâ€printing applications. Journal of Biomedical Materials Research - Part A, 2013, 101A, 272-284.	2.1	453
17	Bladder augmentation using allogenic bladder submucosa seeded with cells. Urology, 1998, 51, 221-225.	0.5	447
18	Tissue-engineered autologous urethras for patients who need reconstruction: an observational study. Lancet, The, 2011, 377, 1175-1182.	6.3	446

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19	Engineering Complex Tissues. Science Translational Medicine, 2012, 4, 160rv12.	5.8	436
20	Antiangiogenic Properties of Gold Nanoparticles. Clinical Cancer Research, 2005, 11, 3530-3534.	3.2	426
21	Derivation and Comparative Assessment of Retinal Pigment Epithelium from Human Embryonic Stem Cells Using Transcriptomics. Cloning and Stem Cells, 2004, 6, 217-245.	2.6	417
22	Controlled fabrication of a biological vascular substitute. Biomaterials, 2006, 27, 1088-1094.	5.7	414
23	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. Scientific Reports, 2017, 7, 8837.	1.6	407
24	Organoid-on-a-chip and body-on-a-chip systems for drug screening and disease modeling. Drug Discovery Today, 2016, 21, 1399-1411.	3.2	387
25	Biomaterials for Integration with 3-D Bioprinting. Annals of Biomedical Engineering, 2015, 43, 730-746.	1.3	373
26	Generation of histocompatible tissues using nuclear transplantation. Nature Biotechnology, 2002, 20, 689-696.	9.4	367
27	Principals of neovascularization for tissue engineering. Molecular Aspects of Medicine, 2002, 23, 463-483.	2.7	366
28	A hydrogel bioink toolkit for mimicking native tissue biochemical and mechanical properties in bioprinted tissue constructs. Acta Biomaterialia, 2015, 25, 24-34.	4.1	358
29	Continuous release of endostatin from microencapsulated engineered cells for tumor therapy. Nature Biotechnology, 2001, 19, 35-39.	9.4	357
30	Acellular collagen matrix as a possible â€œoff the shelfâ€•biomaterial for urethral repair. Urology, 1999, 54, 407-410.	0.5	347
31	Smart biomaterials design for tissue engineering and regenerative medicine. Biomaterials, 2007, 28, 5068-5073.	5.7	347
32	Optimization of gelatinâ€“alginate composite bioink printability using rheological parameters: a systematic approach. Biofabrication, 2018, 10, 034106.	3.7	336
33	Endoscopic Treatment of Vesicoureteral Reflux with a Chondrocyte-Alginate Suspension. Journal of Urology, 1994, 152, 641-643.	0.2	333
34	The in vivo stability of electrospun polycaprolactone-collagen scaffolds in vascular reconstruction. Biomaterials, 2009, 30, 583-588.	5.7	331
35	Urine Derived Cells are a Potential Source for Urological Tissue Reconstruction. Journal of Urology, 2008, 180, 2226-2233.	0.2	327
36	Development of a composite vascular scaffolding system that withstands physiological vascular conditions. Biomaterials, 2008, 29, 2891-2898.	5.7	321

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37	Opportunities and challenges of translational 3D bioprinting. Nature Biomedical Engineering, 2020, 4, 370-380.	11.6	309
38	Formation of Urothelial Structures in Vivo from Dissociated Cells Attached to Biodegradable Polymer Scaffolds in Vitro. Journal of Urology, 1992, 148, 658-662.	0.2	308
39	The use of keratin biomaterials derived from human hair for the promotion of rapid regeneration of peripheral nerves. Biomaterials, 2008, 29, 118-128.	5.7	304
40	Biomaterials for tissue engineering. World Journal of Urology, 2000, 18, 2-9.	1.2	300
41	Bilayered scaffold for engineering cellularized blood vessels. Biomaterials, 2010, 31, 4313-4321.	5.7	297
42	In Situ Bioprinting of Autologous Skin Cells Accelerates Wound Healing of Extensive Excisional Full-Thickness Wounds. Scientific Reports, 2019, 9, 1856.	1.6	297
43	A 3D bioprinted complex structure for engineering the muscleâ€“tendon unit. Biofabrication, 2015, 7, 035003.	3.7	293
44	Bioprinting technology and its applications. European Journal of Cardio-thoracic Surgery, 2014, 46, 342-348.	0.6	271
45	Implantation in Vivo and Retrieval of Artificial Structures Consisting of Rabbit and Human Urothelium and Human Bladder Muscle. Journal of Urology, 1993, 150, 608-612.	0.2	257
46	Multipotential differentiation of human urine-derived stem cells: Potential for therapeutic applications in urology. Stem Cells, 2013, 31, 1840-1856.	1.4	257
47	Injectable Alginate Seeded with Chondrocytes as a Potential Treatment for Vesicoureteral Reflux. Journal of Urology, 1993, 150, 745-747.	0.2	243
48	In vitro evaluation of electrospun nanofiber scaffolds for vascular graft application. Journal of Biomedical Materials Research - Part A, 2007, 83A, 999-1008.	2.1	239
49	Phenotypic and Cytogenetic Characterization of Human Bladder Urothelia Expanded in Vitro. Journal of Urology, 1994, 152, 665-670.	0.2	230
50	Tissue-engineered conduit using urine-derived stem cells seeded bacterial cellulose polymer in urinary reconstruction and diversion. Biomaterials, 2010, 31, 8889-8901.	5.7	228
51	3D bioprinted functional and contractile cardiac tissue constructs. Acta Biomaterialia, 2018, 70, 48-56.	4.1	227
52	Tissue-specific extracellular matrix coatings for the promotion of cell proliferation and maintenance of cell phenotype. Biomaterials, 2009, 30, 4021-4028.	5.7	226
53	Human Amniotic Fluid Stem Cells Can Integrate and Differentiate into Epithelial Lung Lineages. Stem Cells, 2008, 26, 2902-2911.	1.4	222
54	Assessment methodologies for extrusion-based bioink printability. Biofabrication, 2020, 12, 022003.	3.7	214

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55	Skin tissue regeneration for burn injury. Stem Cell Research and Therapy, 2019, 10, 94.	2.4	213
56	Oxygen producing biomaterials for tissue regeneration. Biomaterials, 2007, 28, 4628-4634.	5.7	211
57	Engineering organs. Current Opinion in Biotechnology, 2009, 20, 575-592.	3.3	211
58	Printing Technologies for Medical Applications. Trends in Molecular Medicine, 2016, 22, 254-265.	3.5	210
59	The use of thermal treatments to enhance the mechanical properties of electrospun poly(É›-caprolactone) scaffolds. Biomaterials, 2008, 29, 1422-1430.	5.7	209
60	Urethral Replacement Using Cell Seeded Tubularized Collagen Matrices. Journal of Urology, 2002, 168, 1789-1793.	0.2	208
61	Production and Implantation of Renal Extracellular Matrix Scaffolds From Porcine Kidneys as a Platform for Renal Bioengineering Investigations. Annals of Surgery, 2012, 256, 363-370.	2.1	206
62	Urethral Stricture Repair With an Off-the-shelf Collagen Matrix. Journal of Urology, 2003, 169, 170-173.	0.2	203
63	In situ tissue regeneration through host stem cell recruitment. Experimental and Molecular Medicine, 2013, 45, e57-e57.	3.2	202
64	3D bioprinting of urethra with PCL/PLCL blend and dual autologous cells in fibrin hydrogel: An in vitro evaluation of biomimetic mechanical property and cell growth environment. Acta Biomaterialia, 2017, 50, 154-164.	4.1	201
65	Tissue Engineering: Toward a New Era of Medicine. Annual Review of Medicine, 2017, 68, 29-40.	5.0	196
66	Amniotic Fluid and Bone Marrow Derived Mesenchymal Stem Cells Can be Converted to Smooth Muscle Cells in the Cryo-Injured Rat Bladder and Prevent Compensatory Hypertrophy of Surviving Smooth Muscle Cells. Journal of Urology, 2007, 177, 369-376.	0.2	193
67	A NOVEL INERT COLLAGEN MATRIX FOR HYPOSPADIAS REPAIR. Journal of Urology, 1999, 162, 1148-1150.	0.2	191
68	Human urine-derived stem cells seeded in a modified 3D porous small intestinal submucosa scaffold for urethral tissue engineering. Biomaterials, 2011, 32, 1317-1326.	5.7	188
69	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. Biomaterials, 2012, 33, 3401-3410.	5.7	188
70	Tissue engineering of human bladder. British Medical Bulletin, 2011, 97, 81-104.	2.7	185
71	Tissue-engineered autologous vaginal organs in patients: a pilot cohort study. Lancet, The, 2014, 384, 329-336.	6.3	185
72	A reductionist metastasisâ€onâ€aâ€chip platform for in vitro tumor progression modeling and drug screening. Biotechnology and Bioengineering, 2016, 113, 2020-2032.	1.7	183

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73	In vitro biocompatibility assessment of naturally derived and synthetic biomaterials using normal human urothelial cells. Journal of Biomedical Materials Research Part B, 2001, 55, 33-39.	3.0	180
74	Tissue Engineering and Regenerative Medicine: Concepts for Clinical Application. Rejuvenation Research, 2004, 7, 15-31.	0.9	180
75	COMPARATIVE ASSESSMENT OF PEDIATRIC TESTICULAR VOLUME: ORCHIDOMETER VERSUS ULTRASOUND. Journal of Urology, 2000, 164, 1111-1114.	0.2	177
76	Co-electrospun dual scaffolding system with potential for muscleâ€“tendon junction tissue engineering. Biomaterials, 2011, 32, 1549-1559.	5.7	175
77	Randomized Comparative Study Between Buccal Mucosal and Acellular Bladder Matrix Grafts in Complex Anterior Urethral Strictures. Journal of Urology, 2008, 179, 1432-1436.	0.2	173
78	Cyclic Mechanical Preconditioning Improves Engineered Muscle Contraction. Tissue Engineering - Part A, 2008, 14, 473-482.	1.6	173
79	Systems for therapeutic angiogenesis in tissue engineering. World Journal of Urology, 2000, 18, 10-18.	1.2	171
80	Identification and characterization of bioactive factors in bladder submucosa matrix. Biomaterials, 2007, 28, 4251-4256.	5.7	169
81	TUBULARIZED INCISED PLATE URETHROPLASTY:: EXPANDED USE IN PRIMARY AND REPEAT SURGERY FOR HYPOSPADIAS. Journal of Urology, 2001, 165, 581-585.	0.2	168
82	Sources of Stem Cells for Regenerative Medicine. Stem Cell Reviews and Reports, 2008, 4, 3-11.	5.6	168
83	Engineering tissues, organs and cells. Journal of Tissue Engineering and Regenerative Medicine, 2007, 1, 83-96.	1.3	167
84	Chondrogenic differentiation of amniotic fluid-derived stem cells. Journal of Molecular Histology, 2007, 38, 405-413.	1.0	166
85	3D Bioprinted Human Skeletal Muscle Constructs for Muscle Function Restoration. Scientific Reports, 2018, 8, 12307.	1.6	166
86	Tissue specific synthetic ECM hydrogels for 3-D inÂvitro maintenance of hepatocyte function. Biomaterials, 2012, 33, 4565-4575.	5.7	165
87	Tubularized urethral replacement with unseeded matrices: what is the maximum distance for normal tissue regeneration?. World Journal of Urology, 2008, 26, 323-326.	1.2	162
88	A Photoâ€Crosslinkable Kidney ECMâ€Derived Bioink Accelerates Renal Tissue Formation. Advanced Healthcare Materials, 2019, 8, e1800992.	3.9	162
89	Characterization of Urine-Derived Stem Cells Obtained from Upper Urinary Tract for Use in Cell-Based Urological Tissue Engineering. Tissue Engineering - Part A, 2011, 17, 2123-2132.	1.6	160
90	Engineering of Blood Vessels from Acellular Collagen Matrices Coated with Human Endothelial Cells. Tissue Engineering, 2006, 12, 2355-2365.	4.9	157

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91	Implementation Guide for Rapid Integration of an Outpatient Telemedicine Program During the COVID-19 Pandemic. Journal of the American College of Surgeons, 2020, 231, 216-222e2.	0.2	156
92	Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. Gut, 2014, 63, 300-309.	6.1	155
93	Regenerative Medicine and Organ Transplantation: Past, Present, and Future. Transplantation, 2011, 91, 1310-1317.	0.5	154
94	Regenerative medicine as applied to solid organ transplantation: current status and future challenges. Transplant International, 2011, 24, 223-232.	0.8	151
95	Tissue Engineering, Stem Cells, and Cloning: Opportunities for Regenerative Medicine. Journal of the American Society of Nephrology: JASN, 2004, 15, 1113-1125.	3.0	150
96	In Vitro Systems for Tissue Engineering. Annals of the New York Academy of Sciences, 2002, 961, 10-26.	1.8	148
97	Protective Effect of Human Amniotic Fluid Stem Cells in an Immunodeficient Mouse Model of Acute Tubular Necrosis. PLoS ONE, 2010, 5, e9357.	1.1	145
98	Valproic Acid Confers Functional Pluripotency to Human Amniotic Fluid Stem Cells in a Transgene-free Approach. Molecular Therapy, 2012, 20, 1953-1967.	3.7	145
99	Porcine pancreas extracellular matrix as a platform for endocrine pancreas bioengineering. Biomaterials, 2013, 34, 5488-5495.	5.7	145
100	SIU/ICUD Consultation on Urethral Strictures: The Management of Anterior Urethral Stricture Disease Using Substitution Urethroplasty. Urology, 2014, 83, S31-S47.	0.5	145
101	Human amniotic fluid-derived stem cells are rejected after transplantation in the myocardium of normal, ischemic, immuno-suppressed or immuno-deficient rat. Journal of Molecular and Cellular Cardiology, 2007, 42, 746-759.	0.9	144
102	Stem cells derived from amniotic fluid: new potentials in regenerative medicine. Reproductive BioMedicine Online, 2009, 18, 17-27.	1.1	144
103	Myogenic differentiation of human bone marrow mesenchymal stem cells on a 3D nano fibrous scaffold for bladder tissue engineering. Biomaterials, 2010, 31, 870-877.	5.7	143
104	The effect of controlled release of PDGF-BB from heparin-conjugated electrospun PCL/gelatin scaffolds on cellular bioactivity and infiltration. Biomaterials, 2012, 33, 6709-6720.	5.7	142
105	Propagation, Expansion, and Multilineage Differentiation of Human Somatic Stem Cells from Dermal Progenitors. Stem Cells and Development, 2005, 14, 337-348.	1.1	141
106	Peripheral Nerve Regeneration Using a Keratin-Based Scaffold: Long-Term Functional and Histological Outcomes in a Mouse Model. Journal of Hand Surgery, 2008, 33, 1541-1547.	0.7	141
107	Drug compound screening in single and integrated multi-organoid body-on-a-chip systems. Biofabrication, 2020, 12, 025017.	3.7	141
108	Three-dimensional testicular organoid: a novel tool for the study of human spermatogenesis and gonadotoxicity in vitroâ€. Biology of Reproduction, 2017, 96, 720-732.	1.2	140

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109	In Vitro Biocompatibility Evaluation Of Naturally Derived And Synthetic Biomaterials Using Normal Human Bladder Smooth Muscle Cells. Journal of Urology, 2002, 167, 1867-1871.	0.2	138
110	In vivo administration of vascular endothelial growth factor (VEGF) and its antagonist, soluble neuropilin-1, predicts a role of VEGF in the progression of acute myeloid leukemia in vivo. Blood, 2002, 100, 4622-4628.	0.6	136
111	RECONSTITUTION OF HUMAN CORPORAL SMOOTH MUSCLE AND ENDOTHELIAL CELLS IN VIVO. Journal of Urology, 1999, 162, 1106-1109.	0.2	135
112	Laparoscopic Correction of Vesicoureteral Reflux. Journal of Urology, 1993, 150, 748-751.	0.2	134
113	Meatal Based Hypospadias Repair with the Use of a Dorsal Subcutaneous Flap to Prevent Urethrocutaneous Fistula. Journal of Urology, 1994, 152, 1229-1231.	0.2	133
114	Differentiation of Human Bone Marrow Mesenchymal Stem Cells into Bladder Cells: Potential for Urological Tissue Engineering. Tissue Engineering - Part A, 2010, 16, 1769-1779.	1.6	131
115	Regenerative medicine strategies. Journal of Pediatric Surgery, 2012, 47, 17-28.	0.8	130
116	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. Nature Communications, 2020, 11, 1025.	5.8	130
117	Continent Urinary Diversion: The Children's Hospital Experience. Journal of Urology, 1997, 157, 1394-1399.	0.2	129
118	Restoration of functional motor units in a rat model of sphincter injury by muscle precursor cell autografts1. Transplantation, 2003, 76, 1053-1060.	0.5	129
119	Autologous Penile Corpora Cavernosa Replacement using Tissue Engineering Techniques. Journal of Urology, 2002, 168, 1754-1758.	0.2	127
120	Bioengineered transplantable porcine livers with re-endothelialized vasculature. Biomaterials, 2015, 40, 72-79.	5.7	127
121	New advances in injectable therapies for the treatment of incontinence and vesicoureteral reflux. Urologic Clinics of North America, 1999, 26, 81-94.	0.8	124
122	Amniotic Fluid and Placental Stem Cells. Methods in Enzymology, 2006, 419, 426-438.	0.4	123
123	Mesenchymal Stem Cells and Adipogenesis in Hemangioma Involution. Stem Cells, 2006, 24, 1605-1612.	1.4	122
124	Tissue Engineering: Current Strategies and Future Directions. Chonnam Medical Journal, 2011, 47, 1.	0.5	121
125	Engineered small diameter vascular grafts by combining cell sheet engineering and electrospinning technology. Acta Biomaterialia, 2015, 16, 14-22.	4.1	121
126	Three-dimensional culture of hepatocytes on porcine liver tissue-derived extracellular matrix. Biomaterials, 2011, 32, 7042-7052.	5.7	120

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127	Efficient myotube formation in 3D bioprinted tissue construct by biochemical and topographical cues. Biomaterials, 2020, 230, 119632.	5.7	120
128	Liver-Tumor Hybrid Organoids for Modeling Tumor Growth and Drug Response In Vitro. Annals of Biomedical Engineering, 2015, 43, 2361-2373.	1.3	118
129	AUTOLOGOUS ENGINEERED CARTILAGE RODS FOR PENILE RECONSTRUCTION. Journal of Urology, 1999, 162, 1119-1121.	0.2	116
130	Engineering of Vaginal Tissuein Vivo. Tissue Engineering, 2003, 9, 301-306.	4.9	116
131	Osteogenic differentiation of human amniotic fluid-derived stem cells induced by bone morphogenetic protein-7 and enhanced by nanofibrous scaffolds. Biomaterials, 2010, 31, 1133-1139.	5.7	116
132	RESERVOIR CALCULI: A COMPARISON OF RESERVOIRS CONSTRUCTED FROM STOMACH AND OTHER ENTERIC SEGMENTS. Journal of Urology, 1998, 160, 2187-2190.	0.2	115
133	Human Amniotic Fluid Stem Cell Preconditioning Improves Their Regenerative Potential. Stem Cells and Development, 2012, 21, 1911-1923.	1.1	112
134	Substrate elasticity controls cell proliferation, surface marker expression and motile phenotype in amniotic fluid-derived stem cells. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 17, 307-316.	1.5	111
135	A novel use of centrifugal force for cell seeding into porous scaffolds. Biomaterials, 2004, 25, 2799-2805.	5.7	109
136	Organ engineering â€“ combining stem cells, biomaterials, and bioreactors to produce bioengineered organs for transplantation. BioEssays, 2013, 35, 163-172.	1.2	109
137	Skeletal myogenic differentiation of urine-derived stem cells and angiogenesis using microbeads loaded with growth factors. Biomaterials, 2013, 34, 1311-1326.	5.7	108
138	Videofetoscopically assisted fetal tissue engineering: Bladder augmentation. Journal of Pediatric Surgery, 1998, 33, 7-12.	0.8	107
139	Optimization of a natural collagen scaffold to aid cellâ€“matrix penetration for urologic tissue engineering. Biomaterials, 2009, 30, 3865-3873.	5.7	107
140	Use of Bowel for Vaginal Reconstruction. Journal of Urology, 1994, 152, 752-755.	0.2	106
141	Bioengineered corporal tissue for structural and functional restoration of the penis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3346-3350.	3.3	105
142	Cell-Seeded Tubularized Scaffolds for Reconstruction of Long Urethral Defects: A Preclinical Study. European Urology, 2013, 63, 531-538.	0.9	104
143	High-Throughput Production of Single-Cell Microparticles Using an Inkjet Printing Technology. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	102
144	Self-Renewal and Differentiation Capacity of Urine-Derived Stem Cells after Urine Preservation for 24 Hours. PLoS ONE, 2013, 8, e53980.	1.1	102

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145	Formation of Corporal Tissue Architecture in Vivo Using Human Cavernosal Muscle and Endothelial Cells Seeded on Collagen Matrices. Tissue Engineering, 2003, 9, 871-879.	4.9	101
146	Probing prodrug metabolism and reciprocal toxicity with an integrated and humanized multi-tissue organ-on-a-chip platform. Acta Biomaterialia, 2020, 106, 124-135.	4.1	101
147	Peripheral nerve regeneration using acellular nerve grafts. Journal of Biomedical Materials Research Part B, 2004, 68A, 201-209.	3.0	100
148	AUTOLOGOUS CELL TRANSPLANTATION FOR UROLOGIC RECONSTRUCTION. Journal of Urology, 1998, 159, 2-3.	0.2	97
149	Regenerative Medicine as Applied to General Surgery. Annals of Surgery, 2012, 255, 867-880.	2.1	97
150	Inkjet-Mediated Gene Transfection into Living Cells Combined with Targeted Delivery. Tissue Engineering - Part A, 2009, 15, 95-101.	1.6	96
151	In vitro evaluation of a poly(lactide-co-glycolide)â€“collagen composite scaffold for bone regeneration. Biomaterials, 2006, 27, 3466-3472.	5.7	95
152	Selfâ€assembled liver organoids recapitulate hepatobiliary organogenesis in vitro. Hepatology, 2018, 67, 750-761.	3.6	95
153	Posterior Urethral Valves. Scientific World Journal, The, 2009, 9, 1119-1126.	0.8	93
154	Repair of Peripheral Nerve Defects in Rabbits Using Keratin Hydrogel Scaffolds. Tissue Engineering - Part A, 2011, 17, 1499-1505.	1.6	92
155	A tunable hydrogel system for longâ€term release of cellâ€secreted cytokines and bioprinted in situ wound cell delivery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1986-2000.	1.6	92
156	Ten-Year Experience with the Artificial Urianary Sphincter in Children. Journal of Urology, 1996, 156, 625-628.	0.2	91
157	Future perspectives in reconstructive surgery using tissue engineering. Urologic Clinics of North America, 1999, 26, 157-165.	0.8	91
158	Electrospun vascular scaffold for cellularized small diameter blood vessels: A preclinical large animal study. Acta Biomaterialia, 2017, 59, 58-67.	4.1	91
159	Bladder Functional Changes Resulting from Lipomyelomeningocele Repair. Journal of Urology, 1992, 148, 592-594.	0.2	90
160	Phenotypic and Functional Characterization of In Vivo Tissue Engineered Smooth Muscle From Normal and Pathological Bladders. Journal of Urology, 2002, 168, 1853-1858.	0.2	90
161	A keratin biomaterial gel hemostat derived from human hair: Evaluation in a rabbit model of lethal liver injury. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 45-54.	1.6	90
162	Whole organ decellularization - a tool for bioscaffold fabrication and organ bioengineering. , 2009, 2009, 6526-9.		90

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163	Understanding the Role of Growth Factors in Modulating Stem Cell Tenogenesis. PLoS ONE, 2013, 8, e83734.	1.1	90
164	A Novel Gene Delivery System Using Urothelial Tissue Engineered Neo-Organs. Journal of Urology, 1997, 158, 1066-1070.	0.2	88
165	Urethral replacement using cell seeded tubularized collagen matrices. Journal of Urology, 2002, 168, 1789-92; discussion 1792-3.	0.2	88
166	Reconstitution of Human Corpus Cavernosum Smooth Muscle in Vitro and in Vivo. Tissue Engineering, 2002, 8, 515-524.	4.9	87
167	Urethral stricture repair with an off-the-shelf collagen matrix. Journal of Urology, 2003, 169, 170-3; discussion 173.	0.2	86
168	Tissue Engineering a Complete Vaginal Replacement From a Small Biopsy of Autologous Tissue. Transplantation, 2008, 86, 208-214.	0.5	85
169	Current and future modalities for functional renal replacement. Urologic Clinics of North America, 1999, 26, 235-246.	0.8	84
170	Tissue engineering for the replacement of organ function in the genitourinary system. American Journal of Transplantation, 2004, 4, 58-73.	2.6	84
171	Recent developments in tissue engineering and regenerative medicine. Current Opinion in Pediatrics, 2006, 18, 167-171.	1.0	84
172	Reprogramming of Human Somatic Cells Using Human and Animal Oocytes. Cloning and Stem Cells, 2009, 11, 213-223.	2.6	84
173	Skin bioprinting: the future of burn wound reconstruction?. Burns and Trauma, 2019, 7, 4.	2.3	84
174	Angiogenic Gene-Modified Muscle Cells for Enhancement of Tissue Formation. Tissue Engineering, 2005, 11, 1034-1044.	4.9	83
175	Composite scaffolds for the engineering of hollow organs and tissues. Methods, 2009, 47, 109-115.	1.9	83
176	Wound Healing Versus Regeneration: Role of the Tissue Environment in Regenerative Medicine. MRS Bulletin, 2010, 35, 597-606.	1.7	82
177	A photo-crosslinkable cartilage-derived extracellular matrix bioink for auricular cartilage tissue engineering. Acta Biomaterialia, 2021, 121, 193-203.	4.1	81
178	Videofetoscopically assisted fetal tissue engineering: Skin replacement. Journal of Pediatric Surgery, 1998, 33, 357-361.	0.8	80
179	Elastomeric free-form blood vessels for interconnecting organs on chip systems. Lab on A Chip, 2016, 16, 1579-1586.	3.1	79
180	Solubilized Amnion Membrane Hyaluronic Acid Hydrogel Accelerates Full-Thickness Wound Healing. Stem Cells Translational Medicine, 2017, 6, 2020-2032.	1.6	79

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