

Anthony J Atala

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

660 papers	45,676 citations	109 h-index	198 g-index
701 ext. papers	51,676 ext. citations	6.3 avg, IF	8.02 L-index

#	Paper	IF	Citations
660	3D bioprinting of tissues and organs. <i>Nature Biotechnology</i> , 2014 , 32, 773-85	44.5	3876
659	A 3D bioprinting system to produce human-scale tissue constructs with structural integrity. <i>Nature Biotechnology</i> , 2016 , 34, 312-9	44.5	1602
658	Isolation of amniotic stem cell lines with potential for therapy. <i>Nature Biotechnology</i> , 2007 , 25, 100-6	44.5	1508
657	Tissue-engineered autologous bladders for patients needing cystoplasty. <i>Lancet, The</i> , 2006 , 367, 1241-6	40	1456
656	Functional small-diameter neovessels created using endothelial progenitor cells expanded ex vivo. <i>Nature Medicine</i> , 2001 , 7, 1035-40	50.5	707
655	De novo reconstitution of a functional mammalian urinary bladder by tissue engineering. <i>Nature Biotechnology</i> , 1999 , 17, 149-55	44.5	669
654	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, 2899-906	15.6	496
653	Bioprinting 3D microfibrous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. <i>Biomaterials</i> , 2016 , 110, 45-59	15.6	495
652	The use of whole organ decellularization for the generation of a vascularized liver organoid. <i>Hepatology</i> , 2011 , 53, 604-17	11.2	480
651	Engineering complex tissues. <i>Tissue Engineering</i> , 2006 , 12, 3307-39		459
650	Complex heterogeneous tissue constructs containing multiple cell types prepared by inkjet printing technology. <i>Biomaterials</i> , 2013 , 34, 130-9	15.6	436
649	Bioprinted amniotic fluid-derived stem cells accelerate healing of large skin wounds. <i>Stem Cells Translational Medicine</i> , 2012 , 1, 792-802	6.9	423
648	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2293-E2302	11.5	416
647	Bladder augmentation using allogenic bladder submucosa seeded with cells. <i>Urology</i> , 1998 , 51, 221-5	1.6	405
646	Hybrid printing of mechanically and biologically improved constructs for cartilage tissue engineering applications. <i>Biofabrication</i> , 2013 , 5, 015001	10.5	386
645	Controlled fabrication of a biological vascular substitute. <i>Biomaterials</i> , 2006 , 27, 1088-94	15.6	380
644	Evaluation of hydrogels for bio-printing applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 272-84	5.4	379

643	Tissue-engineered autologous urethras for patients who need reconstruction: an observational study. <i>Lancet, The</i> , 2011 , 377, 1175-82	40	374
642	Antiangiogenic properties of gold nanoparticles. <i>Clinical Cancer Research</i> , 2005 , 11, 3530-4	12.9	369
641	Derivation and comparative assessment of retinal pigment epithelium from human embryonic stem cells using transcriptomics. <i>Cloning and Stem Cells</i> , 2004 , 6, 217-45		367
640	Engineering complex tissues. <i>Science Translational Medicine</i> , 2012 , 4, 160rv12	17.5	364
639	A liver-on-a-chip platform with bioprinted hepatic spheroids. <i>Biofabrication</i> , 2016 , 8, 014101	10.5	353
638	Principals of neovascularization for tissue engineering. <i>Molecular Aspects of Medicine</i> , 2002 , 23, 463-83	16.7	326
637	Generation of histocompatible tissues using nuclear transplantation. <i>Nature Biotechnology</i> , 2002 , 20, 689-96	44.5	323
636	Continuous release of endostatin from microencapsulated engineered cells for tumor therapy. <i>Nature Biotechnology</i> , 2001 , 19, 35-9	44.5	323
635	Biomaterials for integration with 3-D bioprinting. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 730-46	4.7	313
634	Acellular collagen matrix as a possible "off the shelf" biomaterial for urethral repair. <i>Urology</i> , 1999 , 54, 407-10	1.6	312
633	Smart biomaterials design for tissue engineering and regenerative medicine. <i>Biomaterials</i> , 2007 , 28, 5068-73	18.5	309
632	Endoscopic treatment of vesicoureteral reflux with a chondrocyte-alginate suspension. <i>Journal of Urology</i> , 1994 , 152, 641-3; discussion 644	2.5	303
631	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. <i>Scientific Reports</i> , 2017 , 7, 8837	4.9	297
630	The in vivo stability of electrospun polycaprolactone-collagen scaffolds in vascular reconstruction. <i>Biomaterials</i> , 2009 , 30, 583-8	15.6	295
629	Development of a composite vascular scaffolding system that withstands physiological vascular conditions. <i>Biomaterials</i> , 2008 , 29, 2891-8	15.6	292
628	Organoid-on-a-chip and body-on-a-chip systems for drug screening and disease modeling. <i>Drug Discovery Today</i> , 2016 , 21, 1399-1411	8.8	289
627	A hydrogel bioink toolkit for mimicking native tissue biochemical and mechanical properties in bioprinted tissue constructs. <i>Acta Biomaterialia</i> , 2015 , 25, 24-34	10.8	281
626	Formation of urothelial structures in vivo from dissociated cells attached to biodegradable polymer scaffolds in vitro. <i>Journal of Urology</i> , 1992 , 148, 658-62	2.5	273

625	Bilayered scaffold for engineering cellularized blood vessels. <i>Biomaterials</i> , 2010 , 31, 4313-21	15.6	261
624	The use of keratin biomaterials derived from human hair for the promotion of rapid regeneration of peripheral nerves. <i>Biomaterials</i> , 2008 , 29, 118-28	15.6	257
623	Urine derived cells are a potential source for urological tissue reconstruction. <i>Journal of Urology</i> , 2008 , 180, 2226-33	2.5	254
622	Biomaterials for tissue engineering. <i>World Journal of Urology</i> , 2000 , 18, 2-9	4	247
621	A 3D bioprinted complex structure for engineering the muscle-tendon unit. <i>Biofabrication</i> , 2015 , 7, 035003	3.5	235
620	Implantation in vivo and retrieval of artificial structures consisting of rabbit and human urothelium and human bladder muscle. <i>Journal of Urology</i> , 1993 , 150, 608-12	2.5	229
619	Injectable alginate seeded with chondrocytes as a potential treatment for vesicoureteral reflux. <i>Journal of Urology</i> , 1993 , 150, 745-7	2.5	222
618	In vitro evaluation of electrospun nanofiber scaffolds for vascular graft application. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 999-1008	5.4	217
617	Bioprinting technology and its applications. <i>European Journal of Cardio-thoracic Surgery</i> , 2014 , 46, 342-8	3	215
616	Phenotypic and cytogenetic characterization of human bladder urothelia expanded in vitro. <i>Journal of Urology</i> , 1994 , 152, 665-70	2.5	208
615	Multipotential differentiation of human urine-derived stem cells: potential for therapeutic applications in urology. <i>Stem Cells</i> , 2013 , 31, 1840-56	5.8	196
614	Tissue-engineered conduit using urine-derived stem cells seeded bacterial cellulose polymer in urinary reconstruction and diversion. <i>Biomaterials</i> , 2010 , 31, 8889-901	15.6	196
613	Optimization of gelatin-alginate composite bioink printability using rheological parameters: a systematic approach. <i>Biofabrication</i> , 2018 , 10, 034106	10.5	196
612	Human amniotic fluid stem cells can integrate and differentiate into epithelial lung lineages. <i>Stem Cells</i> , 2008 , 26, 2902-11	5.8	195
611	Urethral Replacement Using Cell Seeded Tubularized Collagen Matrices. <i>Journal of Urology</i> , 2002 , 168, 1789-1793	2.5	192
610	Engineering organs. <i>Current Opinion in Biotechnology</i> , 2009 , 20, 575-92	11.4	191
609	The use of thermal treatments to enhance the mechanical properties of electrospun poly(epsilon-caprolactone) scaffolds. <i>Biomaterials</i> , 2008 , 29, 1422-30	15.6	191
608	Tissue-specific extracellular matrix coatings for the promotion of cell proliferation and maintenance of cell phenotype. <i>Biomaterials</i> , 2009 , 30, 4021-8	15.6	187

607	Urethral Stricture Repair With an Off-the-shelf Collagen Matrix. <i>Journal of Urology</i> , 2003 , 169, 170-173	2.5	178
606	Production and implantation of renal extracellular matrix scaffolds from porcine kidneys as a platform for renal bioengineering investigations. <i>Annals of Surgery</i> , 2012 , 256, 363-70	7.8	176
605	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. <i>Journal of Urology</i> , 2007 , 177, 369-76	2.5	175
604	Oxygen producing biomaterials for tissue regeneration. <i>Biomaterials</i> , 2007 , 28, 4628-34	15.6	173
603	In Situ Bioprinting of Autologous Skin Cells Accelerates Wound Healing of Extensive Excisional Full-Thickness Wounds. <i>Scientific Reports</i> , 2019 , 9, 1856	4.9	171
602	In situ tissue regeneration through host stem cell recruitment. <i>Experimental and Molecular Medicine</i> , 2013 , 45, e57	12.8	170
601	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. <i>Biomaterials</i> , 2012 , 33, 3401-10	15.6	163
600	A NOVEL INERT COLLAGEN MATRIX FOR HYPOSPADIAS REPAIR. <i>Journal of Urology</i> , 1999 , 162, 1148-1150	5	163
599	In vitro biocompatibility assessment of naturally derived and synthetic biomaterials using normal human urothelial cells. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 33-9		161
598	Printing Technologies for Medical Applications. <i>Trends in Molecular Medicine</i> , 2016 , 22, 254-265	11.5	160
597	COMPARATIVE ASSESSMENT OF PEDIATRIC TESTICULAR VOLUME: ORCHIDOMETER VERSUS ULTRASOUND. <i>Journal of Urology</i> , 2000 , 164, 1111-1114	2.5	159
596	Tissue engineering of human bladder. <i>British Medical Bulletin</i> , 2011 , 97, 81-104	5.4	158
595	Tissue engineering and regenerative medicine: concepts for clinical application. <i>Rejuvenation Research</i> , 2004 , 7, 15-31	2.6	155
594	Identification and characterization of bioactive factors in bladder submucosa matrix. <i>Biomaterials</i> , 2007 , 28, 4251-6	15.6	154
593	3D bioprinted functional and contractile cardiac tissue constructs. <i>Acta Biomaterialia</i> , 2018 , 70, 48-56	10.8	153
592	Co-electrospun dual scaffolding system with potential for muscle-tendon junction tissue engineering. <i>Biomaterials</i> , 2011 , 32, 1549-59	15.6	151
591	Cyclic mechanical preconditioning improves engineered muscle contraction. <i>Tissue Engineering - Part A</i> , 2008 , 14, 473-82	3.9	150
590	Systems for therapeutic angiogenesis in tissue engineering. <i>World Journal of Urology</i> , 2000 , 18, 10-8	4	150

589	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. <i>Acta Biomaterialia</i> , 2017 , 50, 154-164	10.8	149
588	Tissue-engineered autologous vaginal organs in patients: a pilot cohort study. <i>Lancet, The</i> , 2014 , 384, 329-36	40	148
587	Human urine-derived stem cells seeded in a modified 3D porous small intestinal submucosa scaffold for urethral tissue engineering. <i>Biomaterials</i> , 2011 , 32, 1317-26	15.6	147
586	Randomized comparative study between buccal mucosal and acellular bladder matrix grafts in complex anterior urethral strictures. <i>Journal of Urology</i> , 2008 , 179, 1432-6	2.5	147
585	Engineering tissues, organs and cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 83-96	4.4	147
584	Sources of stem cells for regenerative medicine. <i>Stem Cell Reviews and Reports</i> , 2008 , 4, 3-11	6.4	146
583	Chondrogenic differentiation of amniotic fluid-derived stem cells. <i>Journal of Molecular Histology</i> , 2007 , 38, 405-13	3.3	145
582	Opportunities and challenges of translational 3D bioprinting. <i>Nature Biomedical Engineering</i> , 2020 , 4, 370-380	19	144
581	Engineering of blood vessels from acellular collagen matrices coated with human endothelial cells. <i>Tissue Engineering</i> , 2006 , 12, 2355-65		140
580	Tubularized incised plate urethroplasty: expanded use in primary and repeat surgery for hypospadias. <i>Journal of Urology</i> , 2001 , 165, 581-5	2.5	140
579	Tissue specific synthetic ECM hydrogels for 3-D in vitro maintenance of hepatocyte function. <i>Biomaterials</i> , 2012 , 33, 4565-75	15.6	138
578	A reductionist metastasis-on-a-chip platform for in vitro tumor progression modeling and drug screening. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2020-32	4.9	137
577	Tubularized urethral replacement with unseeded matrices: what is the maximum distance for normal tissue regeneration?. <i>World Journal of Urology</i> , 2008 , 26, 323-6	4	137
576	Protective effect of human amniotic fluid stem cells in an immunodeficient mouse model of acute tubular necrosis. <i>PLoS ONE</i> , 2010 , 5, e9357	3.7	134
575	Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. <i>Gut</i> , 2014 , 63, 300-9	19.2	132
574	Tissue engineering, stem cells, and cloning: opportunities for regenerative medicine. <i>Journal of the American Society of Nephrology: JASN</i> , 2004 , 15, 1113-25	12.7	132
573	Myogenic differentiation of human bone marrow mesenchymal stem cells on a 3D nano fibrous scaffold for bladder tissue engineering. <i>Biomaterials</i> , 2010 , 31, 870-7	15.6	131
572	Regenerative medicine as applied to solid organ transplantation: current status and future challenges. <i>Transplant International</i> , 2011 , 24, 223-32	3	130

571	Characterization of urine-derived stem cells obtained from upper urinary tract for use in cell-based urological tissue engineering. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2123-32	3.9	129
570	In vitro systems for tissue engineering. <i>Annals of the New York Academy of Sciences</i> , 2002 , 961, 10-26	6.5	129
569	Valproic acid confers functional pluripotency to human amniotic fluid stem cells in a transgene-free approach. <i>Molecular Therapy</i> , 2012 , 20, 1953-67	11.7	128
568	Propagation, expansion, and multilineage differentiation of human somatic stem cells from dermal progenitors. <i>Stem Cells and Development</i> , 2005 , 14, 337-48	4.4	128
567	Peripheral nerve regeneration using a keratin-based scaffold: long-term functional and histological outcomes in a mouse model. <i>Journal of Hand Surgery</i> , 2008 , 33, 1541-7	2.6	127
566	Human amniotic fluid-derived stem cells are rejected after transplantation in the myocardium of normal, ischemic, immuno-suppressed or immuno-deficient rat. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 42, 746-59	5.8	127
565	Tissue Engineering: Toward a New Era of Medicine. <i>Annual Review of Medicine</i> , 2017 , 68, 29-40	17.4	124
564	Stem cells derived from amniotic fluid: new potentials in regenerative medicine. <i>Reproductive BioMedicine Online</i> , 2009 , 18 Suppl 1, 17-27	4	124
563	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. <i>Blood</i> , 2002 , 100, 4622-8	2.2	122
562	Porcine pancreas extracellular matrix as a platform for endocrine pancreas bioengineering. <i>Biomaterials</i> , 2013 , 34, 5488-95	15.6	121
561	In Vitro Biocompatibility Evaluation Of Naturally Derived And Synthetic Biomaterials Using Normal Human Bladder Smooth Muscle Cells. <i>Journal of Urology</i> , 2002 , 167, 1867-1871	2.5	118
560	The effect of controlled release of PDGF-BB from heparin-conjugated electrospun PCL/gelatin scaffolds on cellular bioactivity and infiltration. <i>Biomaterials</i> , 2012 , 33, 6709-20	15.6	117
559	Laparoscopic correction of vesicoureteral reflux. <i>Journal of Urology</i> , 1993 , 150, 748-51	2.5	117
558	RECONSTITUTION OF HUMAN CORPORAL SMOOTH MUSCLE AND ENDOTHELIAL CELLS IN VIVO. <i>Journal of Urology</i> , 1999 , 162, 1106-1109	2.5	116
557	Differentiation of human bone marrow mesenchymal stem cells into bladder cells: potential for urological tissue engineering. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1769-79	3.9	115
556	Continent urinary diversion: the Children's Hospital experience. <i>Journal of Urology</i> , 1997 , 157, 1394-9	2.5	112
555	Restoration of functional motor units in a rat model of sphincter injury by muscle precursor cell autografts. <i>Transplantation</i> , 2003 , 76, 1053-60	1.8	112
554	Autologous Penile Corpora Cavernosa Replacement using Tissue Engineering Techniques. <i>Journal of Urology</i> , 2002 , 168, 1754-1758	2.5	112

553	SIU/ICUD Consultation on Urethral Strictures: The management of anterior urethral stricture disease using substitution urethroplasty. <i>Urology</i> , 2014 , 83, S31-47	1.6	110
552	Amniotic fluid and placental stem cells. <i>Methods in Enzymology</i> , 2006 , 419, 426-38	1.7	109
551	New advances in injectable therapies for the treatment of incontinence and vesicoureteral reflux. <i>Urologic Clinics of North America</i> , 1999 , 26, 81-94, viii	2.9	108
550	3D Bioprinted Human Skeletal Muscle Constructs for Muscle Function Restoration. <i>Scientific Reports</i> , 2018 , 8, 12307	4.9	106
549	Osteogenic differentiation of human amniotic fluid-derived stem cells induced by bone morphogenetic protein-7 and enhanced by nanofibrous scaffolds. <i>Biomaterials</i> , 2010 , 31, 1133-9	15.6	104
548	Skin tissue regeneration for burn injury. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 94	8.3	103
547	Implementation Guide for Rapid Integration of an Outpatient Telemedicine Program During the COVID-19 Pandemic. <i>Journal of the American College of Surgeons</i> , 2020 , 231, 216-222.e2	4.4	103
546	Three-dimensional culture of hepatocytes on porcine liver tissue-derived extracellular matrix. <i>Biomaterials</i> , 2011 , 32, 7042-52	15.6	103
545	Human amniotic fluid stem cell preconditioning improves their regenerative potential. <i>Stem Cells and Development</i> , 2012 , 21, 1911-23	4.4	103
544	RESERVOIR CALCULI: A COMPARISON OF RESERVOIRS CONSTRUCTED FROM STOMACH AND OTHER ENTERIC SEGMENTS. <i>Journal of Urology</i> , 1998 , 160, 2187-2190	2.5	101
543	Engineered small diameter vascular grafts by combining cell sheet engineering and electrospinning technology. <i>Acta Biomaterialia</i> , 2015 , 16, 14-22	10.8	100
542	Mesenchymal stem cells and adipogenesis in hemangioma involution. <i>Stem Cells</i> , 2006 , 24, 1605-12	5.8	100
541	Bioengineered transplantable porcine livers with re-endothelialized vasculature. <i>Biomaterials</i> , 2015 , 40, 72-9	15.6	99
540	Engineering of vaginal tissue in vivo. <i>Tissue Engineering</i> , 2003 , 9, 301-6		99
539	AUTOLOGOUS ENGINEERED CARTILAGE RODS FOR PENILE RECONSTRUCTION. <i>Journal of Urology</i> , 1999 , 162, 1119-1121	2.5	98
538	Meatal based hypospadias repair with the use of a dorsal subcutaneous flap to prevent urethrocutaneous fistula. <i>Journal of Urology</i> , 1994 , 152, 1229-31	2.5	98
537	A Photo-Crosslinkable Kidney ECM-Derived Bioink Accelerates Renal Tissue Formation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1800992	10.1	97
536	Tissue engineering: current strategies and future directions. <i>Chonnam Medical Journal</i> , 2011 , 47, 1-13	1.3	97

535	Use of bowel for vaginal reconstruction. <i>Journal of Urology</i> , 1994 , 152, 752-5; discussion 756-7	2.5	96
534	Videofetoscopically assisted fetal tissue engineering: bladder augmentation. <i>Journal of Pediatric Surgery</i> , 1998 , 33, 7-12	2.6	95
533	Liver-Tumor Hybrid Organoids for Modeling Tumor Growth and Drug Response In Vitro. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2361-73	4.7	94
532	Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , 2020 , 12, 022003	10.5	94
531	Regenerative medicine strategies. <i>Journal of Pediatric Surgery</i> , 2012 , 47, 17-28	2.6	93
530	A novel use of centrifugal force for cell seeding into porous scaffolds. <i>Biomaterials</i> , 2004 , 25, 2799-805	15.6	93
529	Three-dimensional testicular organoid: a novel tool for the study of human spermatogenesis and gonadotoxicity in vitro. <i>Biology of Reproduction</i> , 2017 , 96, 720-732	3.9	89
528	Organ engineering--combining stem cells, biomaterials, and bioreactors to produce bioengineered organs for transplantation. <i>BioEssays</i> , 2013 , 35, 163-72	4.1	89
527	Bioengineered corporal tissue for structural and functional restoration of the penis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3346-50	11.5	89
526	Optimization of a natural collagen scaffold to aid cell-matrix penetration for urologic tissue engineering. <i>Biomaterials</i> , 2009 , 30, 3865-73	15.6	89
525	In vitro evaluation of a poly(lactide-co-glycolide)-collagen composite scaffold for bone regeneration. <i>Biomaterials</i> , 2006 , 27, 3466-72	15.6	89
524	Skeletal myogenic differentiation of urine-derived stem cells and angiogenesis using microbeads loaded with growth factors. <i>Biomaterials</i> , 2013 , 34, 1311-26	15.6	88
523	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,	3.3	88
522	Peripheral nerve regeneration using acellular nerve grafts. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 201-9		86
521	Formation of corporal tissue architecture in vivo using human cavernosal muscle and endothelial cells seeded on collagen matrices. <i>Tissue Engineering</i> , 2003 , 9, 871-9		86
520	Cell-seeded tubularized scaffolds for reconstruction of long urethral defects: a preclinical study. <i>European Urology</i> , 2013 , 63, 531-8	10.2	85
519	Autologous cell transplantation for urologic reconstruction. <i>Journal of Urology</i> , 1998 , 159, 2-3	2.5	85
518	Substrate elasticity controls cell proliferation, surface marker expression and motile phenotype in amniotic fluid-derived stem cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 17, 307-16	4.1	81

517	Bladder functional changes resulting from lipomyelomeningocele repair. <i>Journal of Urology</i> , 1992 , 148, 592-4	2.5	80
516	Regenerative medicine as applied to general surgery. <i>Annals of Surgery</i> , 2012 , 255, 867-80	7.8	79
515	A Novel Gene Delivery System Using Urothelial Tissue Engineered Neo-Organs. <i>Journal of Urology</i> , 1997 , 158, 1066-1070	2.5	79
514	Repair of peripheral nerve defects in rabbits using keratin hydrogel scaffolds. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1499-505	3.9	78
513	Inkjet-mediated gene transfection into living cells combined with targeted delivery. <i>Tissue Engineering - Part A</i> , 2009 , 15, 95-101	3.9	78
512	Current and future modalities for functional renal replacement. <i>Urologic Clinics of North America</i> , 1999 , 26, 235-46, xi	2.9	78
511	Phenotypic and Functional Characterization of In Vivo Tissue Engineered Smooth Muscle From Normal and Pathological Bladders. <i>Journal of Urology</i> , 2002 , 168, 1853-1858	2.5	77
510	Future perspectives in reconstructive surgery using tissue engineering. <i>Urologic Clinics of North America</i> , 1999 , 26, 157-65, ix-x	2.9	77
509	Self-renewal and differentiation capacity of urine-derived stem cells after urine preservation for 24 hours. <i>PLoS ONE</i> , 2013 , 8, e53980	3.7	76
508	Reconstitution of human corpus cavernosum smooth muscle in vitro and in vivo. <i>Tissue Engineering</i> , 2002 , 8, 515-24		76
507	Ten-Year Experience with the Artificial Urinary Sphincter in Children. <i>Journal of Urology</i> , 1996 , 156, 625-628	3.8	76
506	Understanding the role of growth factors in modulating stem cell tenogenesis. <i>PLoS ONE</i> , 2013 , 8, e83734	3.7	76
505	Morphometric and dynamic studies of bone changes in hyperthyroidism. <i>Tissue Engineering</i> , 1977 , 85A, 141-50		75
504	Videofetoscopically assisted fetal tissue engineering: skin replacement. <i>Journal of Pediatric Surgery</i> , 1998 , 33, 357-61	2.6	74
503	A tunable hydrogel system for long-term release of cell-secreted cytokines and bioprinted in situ wound cell delivery. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1986-2000	3.5	73
502	Reprogramming of human somatic cells using human and animal oocytes. <i>Cloning and Stem Cells</i> , 2009 , 11, 213-23		73
501	Recent developments in tissue engineering and regenerative medicine. <i>Current Opinion in Pediatrics</i> , 2006 , 18, 167-71	3.2	73
500	Tissue engineering for the replacement of organ function in the genitourinary system. <i>American Journal of Transplantation</i> , 2004 , 4 Suppl 6, 58-73	8.7	72

499	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. <i>Nature Communications</i> , 2020 , 11, 1025	17.4	70
498	Elastomeric free-form blood vessels for interconnecting organs on chip systems. <i>Lab on A Chip</i> , 2016 , 16, 1579-86	7.2	70
497	Tissue engineering of reproductive tissues and organs. <i>Fertility and Sterility</i> , 2012 , 98, 21-9	4.8	69
496	Posterior urethral valves. <i>Scientific World Journal, The</i> , 2009 , 9, 1119-26	2.2	69
495	Whole organ decellularization - a tool for bioscaffold fabrication and organ bioengineering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 6526-9	0.9	69
494	A keratin biomaterial gel hemostat derived from human hair: evaluation in a rabbit model of lethal liver injury. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 90, 45-54	3.5	69
493	Tissue engineering a complete vaginal replacement from a small biopsy of autologous tissue. <i>Transplantation</i> , 2008 , 86, 208-14	1.8	68
492	Electrospun vascular scaffold for cellularized small diameter blood vessels: A preclinical large animal study. <i>Acta Biomaterialia</i> , 2017 , 59, 58-67	10.8	67
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