

Masayuki Yamato

List of Publications by Year in descending order

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71
papers

6,997
citations

126858

33
h-index

98753

67
g-index

72
all docs

72
docs citations

72
times ranked

5362
citing authors

#	ARTICLE	IF	CITATIONS
1	Corneal Reconstruction with Tissue-Engineered Cell Sheets Composed of Autologous Oral Mucosal Epithelium. <i>New England Journal of Medicine</i> , 2004, 351, 1187-1196.	13.9	1,386
2	Fabrication of Pulsatile Cardiac Tissue Grafts Using a Novel 3-Dimensional Cell Sheet Manipulation Technique and Temperature-Responsive Cell Culture Surfaces. <i>Circulation Research</i> , 2002, 90, e40.	2.0	860
3	Engineering functional two- and three-dimensional liver systems in vivo using hepatic tissue sheets. <i>Nature Medicine</i> , 2007, 13, 880-885.	15.2	479
4	Decrease in culture temperature releases monolayer endothelial cell sheets together with deposited fibronectin matrix from temperature-responsive culture surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1999, 45, 355-362.	3.0	457
5	Prevention of Esophageal Stricture After Endoscopic Submucosal Dissection Using Tissue-Engineered Cell Sheets. <i>Gastroenterology</i> , 2012, 143, 582-588.e2.	0.6	437
6	Thermo-Responsive Culture Dishes Allow the Intact Harvest of Multilayered Keratinocyte Sheets without Disperse by Reducing Temperature. <i>Tissue Engineering</i> , 2001, 7, 473-480.	4.9	431
7	Cell sheet engineering. <i>Materials Today</i> , 2004, 7, 42-47.	8.3	406
8	Creation of Designed Shape Cell Sheets That Are Noninvasively Harvested and Moved onto Another Surface. <i>Biomacromolecules</i> , 2000, 1, 377-381.	2.6	236
9	Bioengineered cardiac cell sheet grafts have intrinsic angiogenic potential. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 573-582.	1.0	192
10	Signal transduction and cytoskeletal reorganization are required for cell detachment from cell culture surfaces grafted with a temperature-responsive polymer. , 1999, 44, 44-52.		134
11	Cartilage repair in transplanted scaffold-free chondrocyte sheets using a minipig model. <i>Biomaterials</i> , 2012, 33, 3846-3851.	5.7	130
12	Limbal Epithelial Side-Population Cells Have Stem Cell-Like Properties, Including Quiescent State. <i>Stem Cells</i> , 2006, 24, 86-94.	1.4	117
13	Articular Cartilage Regeneration Using Cell Sheet Technology. <i>Anatomical Record</i> , 2014, 297, 36-43.	0.8	96
14	Middle ear mucosal regeneration by tissue-engineered cell sheet transplantation. <i>Npj Regenerative Medicine</i> , 2017, 2, 6.	2.5	86
15	Combined surgery and chondrocyte cell-sheet transplantation improves clinical and structural outcomes in knee osteoarthritis. <i>Npj Regenerative Medicine</i> , 2019, 4, 4.	2.5	86
16	Cell-Sheet Engineering Using Intelligent Surfaces. <i>MRS Bulletin</i> , 2005, 30, 189-193.	1.7	83
17	Dynamic sealing of lung air leaks by the transplantation of tissue engineered cell sheets. <i>Biomaterials</i> , 2007, 28, 4294-4302.	5.7	74
18	Oral epithelial cell sheets engraftment for esophageal strictures after endoscopic submucosal dissection of squamous cell carcinoma and airplane transportation. <i>Scientific Reports</i> , 2017, 7, 17460.	1.6	73

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19	Fabrication of transplantable human oral mucosal epithelial cell sheets using temperature-responsive culture inserts without feeder layer cells. <i>Journal of Artificial Organs</i> , 2006, 9, 185-191.	0.4	67
20	Repair of articular cartilage defect with layered chondrocyte sheets and cultured synovial cells. <i>Biomaterials</i> , 2012, 33, 5278-5286.	5.7	64
21	Switching of cell growth/detachment on heparin-functionalized thermoresponsive surface for rapid cell sheet fabrication and manipulation. <i>Biomaterials</i> , 2013, 34, 4214-4222.	5.7	64
22	The effect of micropores in the surface of temperature-responsive culture inserts on the fabrication of transplantable canine oral mucosal epithelial cell sheets. <i>Biomaterials</i> , 2006, 27, 5518-5523.	5.7	63
23	Integrin α 2 β 3 regulates thrombopoietin-mediated maintenance of hematopoietic stem cells. <i>Blood</i> , 2012, 119, 83-94.	0.6	63
24	Cell sheet technology for regeneration of esophageal mucosa. <i>World Journal of Gastroenterology</i> , 2012, 18, 5145-50.	1.4	52
25	Functional closure of visceral pleural defects by autologous tissue engineered cell sheets. <i>European Journal of Cardio-thoracic Surgery</i> , 2008, 34, 864-869.	0.6	51
26	Corneal regeneration by transplantation of corneal epithelial cell sheets fabricated with automated cell culture system in rabbit model. <i>Biomaterials</i> , 2013, 34, 9010-9017.	5.7	49
27	Regulatory approval for autologous human cells and tissue products in the United States, the European Union, and Japan. <i>Regenerative Therapy</i> , 2015, 1, 45-56.	1.4	48
28	Expression of Integrin α 2 β 3 Is Correlated to the Properties of Quiescent Hemopoietic Stem Cells Possessing the Side Population Phenotype. <i>Journal of Immunology</i> , 2006, 177, 7733-7739.	0.4	43
29	Prevention of esophageal strictures after endoscopic submucosal dissection. <i>World Journal of Gastroenterology</i> , 2014, 20, 15098.	1.4	43
30	In vivo cell tracking by bioluminescence imaging after transplantation of bioengineered cell sheets to the knee joint. <i>Biomaterials</i> , 2014, 35, 2199-2206.	5.7	41
31	Bio-artificial pleura using an autologous dermal fibroblast sheet. <i>Npj Regenerative Medicine</i> , 2017, 2, 26.	2.5	40
32	A novel method of culturing human oral mucosal epithelial cell sheet using post-mitotic human dermal fibroblast feeder cells and modified keratinocyte culture medium for ocular surface reconstruction. <i>British Journal of Ophthalmology</i> , 2010, 94, 1244-1250.	2.1	38
33	Fabrication and Validation of Autologous Human Oral Mucosal Epithelial Cell Sheets to Prevent Stenosis after Esophageal Endoscopic Submucosal Dissection. <i>Pathobiology</i> , 2011, 78, 311-319.	1.9	37
34	Validation System of Tissue-Engineered Epithelial Cell Sheets for Corneal Regenerative Medicine. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 553-560.	1.1	35
35	A heparin-modified thermoresponsive surface with heparin-binding epidermal growth factor-like growth factor for maintaining hepatic functions in vitro and harvesting hepatocyte sheets. <i>Regenerative Therapy</i> , 2016, 3, 97-106.	1.4	32
36	Evidence of the Survival of Ectopically Transplanted Oral Mucosal Epithelial Stem Cells After Repeated Wounding of Cornea. <i>Molecular Therapy</i> , 2014, 22, 1544-1555.	3.7	29

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37	Characterization of chondrocyte sheets prepared using a co-culture method with temperature-responsive culture inserts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 486-495.	1.3	29
38	Partial purification and characterization of the bacteriocin produced by <i>Lactobacillus acidophilus</i> YIT 0154. <i>Microbiological Research</i> , 2003, 158, 169-172.	2.5	25
39	CD61 enriches long-term repopulating hematopoietic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 365, 176-182.	1.0	25
40	The effects of using vitrified chondrocyte sheets on pain alleviation and articular cartilage repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3437-3444.	1.3	25
41	Fabrication of tissue-engineered cell sheets by automated cell culture equipment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 2246-2255.	1.3	21
42	β 2-Microglobulin is an appropriate reference gene for RT-PCR-based gene expression analysis of hematopoietic stem cells. <i>Regenerative Therapy</i> , 2015, 1, 91-97.	1.4	20
43	Effect of Temperature Changes on Serum Protein Adsorption on Thermoresponsive Cell-Culture Surfaces Monitored by A Quartz Crystal Microbalance with Dissipation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1516.	1.8	19
44	Explant culture of oral mucosal epithelial cells for fabricating transplantable epithelial cell sheet. <i>Regenerative Therapy</i> , 2019, 10, 36-45.	1.4	19
45	The regulation of allogeneic human cells and tissue products as biomaterials. <i>Biomaterials</i> , 2013, 34, 3165-3173.	5.7	18
46	A novel closed cell culture device for fabrication of corneal epithelial cell sheets. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 1259-1267.	1.3	17
47	Nectin-3 expression is elevated in limbal epithelial side population cells with strongly expressed stem cell markers. <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 274-278.	1.0	16
48	Compassionate use of drugs and medical devices in the United States, the European Union and Japan. <i>Regenerative Therapy</i> , 2016, 4, 18-26.	1.4	16
49	Punch and spindle-shaped biopsies for collecting oral mucosal tissue for the fabrication of transplantable autologous epithelial cell sheets. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2849-2854.	2.1	13
50	Brush biopsy of human oral mucosal epithelial cells as a quality control of the cell source for fabrication of transplantable epithelial cell sheets for regenerative medicine. <i>Regenerative Therapy</i> , 2016, 4, 71-77.	1.4	12
51	Assessment of the Safety of Chondrocyte Sheet Implantation for Cartilage Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 59-68.	1.1	12
52	The role of Tsukushi (TSK), a small leucine-rich repeat proteoglycan, in bone growth. <i>Regenerative Therapy</i> , 2017, 7, 98-107.	1.4	11
53	Bio-artificial pleura using autologous dermal fibroblast sheets to mitigate air leaks during thoroscopic lung resection. <i>Npj Regenerative Medicine</i> , 2021, 6, 2.	2.5	10
54	Unilateral Multiple Facial Nerve Branch Reconstruction Using End-to-side Loop Graft Supercharged by Hypoglossal Nerve. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2014, 2, e240.	0.3	8

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55	Characterization of rabbit limbal epithelial side population cells using RNA sequencing and single-cell qRT-PCR. <i>Biochemical and Biophysical Research Communications</i> , 2016, 473, 704-709.	1.0	8
56	Non-clinical assessment design of autologous chondrocyte implantation products. <i>Regenerative Therapy</i> , 2015, 1, 98-108.	1.4	7
57	Off-the-Shelf Cell Sheets as a Pleural Substitute for Closing Visceral Pleural Injuries. <i>Biopreservation and Biobanking</i> , 2019, 17, 163-170.	0.5	6
58	Cell sheet transplantation prevents inflammatory adhesions: A new treatment for adhesive otitis media. <i>Regenerative Therapy</i> , 2021, 18, 457-463.	1.4	6
59	Monoclonal Antibodies to Spirosin of <i>Yersinia enterocolitica</i> and Analysis of the Localization of Spirosome by Use of Them. <i>Microbiology and Immunology</i> , 1994, 38, 177-182.	0.7	5
60	Chromatographic Study of Spirosin by Use of Monoclonal Antibodies to Spirosin of <i>Yersinia enterocolitica</i> . <i>Microbiology and Immunology</i> , 1995, 39, 255-259.	0.7	5
61	Compassionate use and hospital exemption for regenerative medicine: Something wrong to apply the program for patients in a real world. <i>Regenerative Therapy</i> , 2018, 8, 63-64.	1.4	5
62	Analysis of human nasal mucosal cell sheets fabricated using transported tissue and blood specimens. <i>Regenerative Therapy</i> , 2019, 11, 88-94.	1.4	5
63	Bayesian statistics and clinical trial designs for human cells and tissue products for regulatory approval. <i>Regenerative Therapy</i> , 2016, 5, 86-95.	1.4	2
64	Intra-articular administration of EP2 enhances the articular cartilage repair in a rabbit model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2179-2187.	1.3	2
65	Transplantation of autologous oral mucosal epithelial cell sheets inhibits the development of acquired external auditory canal atresia in a rabbit model. <i>Acta Biomaterialia</i> , 2020, 110, 141-152.	4.1	2
66	Preservation of heparin-binding EGF-like growth factor activity on heparin-modified poly(<i>N</i> -isopropylacrylamide)-grafted surfaces. <i>RSC Advances</i> , 2021, 11, 37225-37232.	1.7	2
67	Purification of spiroxin from <i>Lactobacillus reuteri</i> DSM 20016 and partial characterization based on its amino acid sequences.. <i>Journal of General and Applied Microbiology</i> , 1998, 44, 173-175.	0.4	1
68	4th William S Hancock award in regulatory science. <i>Regenerative Therapy</i> , 2015, 1, 85.	1.4	0
69	Regenerative medicine for esophageal reconstruction after cancer treatment. <i>Regenerative Therapy</i> , 2015, 1, 84.	1.4	0
70	Preface of the special issue Hyper BioAssembler. <i>Regenerative Therapy</i> , 2016, 3, 107.	1.4	0
71	Letter to the editor on "Cell therapy for stress urinary incontinence: Present-day frontiers". <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2233-2233.	1.3	0