

Michiya Matsusaki

List of Publications by Year in descending order

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Version: 2024-02-01

205
papers

6,196
citations

71061

41
h-index

91828

69
g-index

216
all docs

216
docs citations

216
times ranked

6888
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput drug screening models of mature adipose tissues which replicate the physiology of patients' Body Mass Index (BMI). <i>Bioactive Materials</i> , 2022, 7, 227-241.	8.6	7
2	CXCL12 promotes CCR7 ligand-mediated breast cancer cell invasion and migration toward lymphatic vessels. <i>Cancer Science</i> , 2022, 113, 1338-1351.	1.7	13
3	Bioink with cartilage-derived extracellular matrix microfibers enables spatial control of vascular capillary formation in bioprinted constructs. <i>Biofabrication</i> , 2022, 14, 034104.	3.7	26
4	Brain microvascular endothelial cells derived from human induced pluripotent stem cells as in vitro model for assessing blood-brain barrier transferrin receptor-mediated transcytosis. <i>Materials Today Bio</i> , 2022, 14, 100232.	2.6	13
5	Fabrication of highly stretchable hydrogel based on crosslinking between alendronates functionalized poly- ¹³ I-glutamate and calcium cations. <i>Materials Today Bio</i> , 2022, 14, 100225.	2.6	1
6	Biomacromolecule-Fueled Transient Volume Phase Transition of a Hydrogel. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
7	Development of a three-dimensional blood-brain barrier network with opening capillary structures for drug transport screening assays. <i>Materials Today Bio</i> , 2022, 15, 100324.	2.6	9
8	Effect of Extracellular Matrix Density and Cell Number on Blood Capillary Formation in Three-Dimensional Tissue. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 1163-1168.	2.0	1
9	Mechanism assay of interaction between blood vessels-near infrared probe and cell surface marker proteins of endothelial cells. <i>Materials Today Bio</i> , 2022, 15, 100332.	2.6	1
10	An in vitro self-organized three-dimensional model of the blood-brain barrier microvasculature. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015006.	1.7	14
11	Development of temperature dependent oxygen releasable nanofilm by modulating oxidation state of myoglobin. <i>Chemical Communications</i> , 2021, 57, 5131-5134.	2.2	4
12	Dynamic analysis of <i>Porphyromonas gingivalis</i> invasion into blood capillaries during the infection process in host tissues using a vascularized three-dimensional human gingival model. <i>Biomaterials Science</i> , 2021, 9, 6574-6583.	2.6	6
13	Development of a drug screening system using three-dimensional cardiac tissues containing multiple cell types. <i>Scientific Reports</i> , 2021, 11, 5654.	1.6	8
14	Analysis of Thickness and Roughness Effects of Artificial Basement Membranes on Endothelial Cell Functions. <i>Analytical Sciences</i> , 2021, 37, 491-495.	0.8	2
15	Bioprinted Vascularized Mature Adipose Tissue with Collagen Microfibers for Soft Tissue Regeneration. <i>Cyborg and Bionic Systems</i> , 2021, 2021, .	3.7	30
16	The Cell Line-Dependent Diversity in Initial Morphological Dynamics of Pancreatic Cancer Cell Peritoneal Metastasis Visualized by an Artificial Human Peritoneal Model. <i>Journal of Surgical Research</i> , 2021, 261, 351-360.	0.8	1
17	Three-Dimensional in vitro Models of Healthy and Tumor Brain Microvasculature for Drug and Toxicity Screening. <i>Frontiers in Toxicology</i> , 2021, 3, 656254.	1.6	12
18	A Near-Infrared Organic Fluorescent Probe for Broad Applications for Blood Vessels Imaging by High-Throughput Screening via 3D Blood Vessel Models. <i>Small Methods</i> , 2021, 5, e2100338.	4.6	13

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19	Measurement of low-grade inflammation of the esophageal mucosa with electrical conductivity shows promise in assessing PPI responsiveness in patients with GERD. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G29-G40.	1.6	1
20	Engineered whole cut meat-like tissue by the assembly of cell fibers using tendon-gel integrated bioprinting. <i>Nature Communications</i> , 2021, 12, 5059.	5.8	141
21	A Near-Infrared Organic Fluorescent Probe for Broad Applications for Blood Vessels Imaging by High-Throughput Screening via 3D-Blood Vessel Models (Small Methods 8/2021). <i>Small Methods</i> , 2021, 5, 2170036.	4.6	0
22	<i>Porphyromonas gingivalis</i> induces penetration of lipopolysaccharide and peptidoglycan through the gingival epithelium via degradation of coxsackievirus and adenovirus receptor. <i>Cellular Microbiology</i> , 2021, 23, e13388.	1.1	6
23	Construction of transplantable artificial vascular tissue based on adipose tissue-derived mesenchymal stromal cells by a cell coating and cryopreservation technique. <i>Scientific Reports</i> , 2021, 11, 17989.	1.6	4
24	Cancer-microenvironment triggered self-assembling therapy with molecular blocks. <i>Materials Horizons</i> , 2021, 8, 1216-1221.	6.4	12
25	Resolution of 3D bioprinting inside bulk gel and granular gel baths. <i>Soft Matter</i> , 2021, 17, 8769-8785.	1.2	23
26	Cancer Stem Cell Microenvironment Models with Biomaterial Scaffolds In Vitro. <i>Processes</i> , 2021, 9, 45.	1.3	8
27	Label-Free Cancer Stem-like Cell Assay Conducted at a Single Cell Level Using Microfluidic Mechanotyping Devices. <i>Analytical Chemistry</i> , 2021, 93, 14409-14416.	3.2	10
28	Constructing vascularized hepatic tissue by cell-assembled viscous tissue sedimentation method and its application for vascular toxicity assessment. <i>Acta Biomaterialia</i> , 2021, 140, 275-275.	4.1	1
29	Development of Highly Sensitive Molecular Blocks at Cancer Microenvironment for Rapid Cancer Cell Death. <i>Langmuir</i> , 2021, , .	1.6	1
30	Interstitial flow regulates in-vitro three-dimensional self-organized brain micro-vessels. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 600-606.	1.0	14
31	Enhancing Photostability of a Coumarin Dye by Self-Inclusion into a Cyclodextrin Cavity in Aqueous Solution and Living Cells. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 2112-2115.	1.3	4
32	Preparation of Extracellular Matrix Paper and Construction of Multi-Layered 3D Tissue Model. <i>Current Protocols in Cell Biology</i> , 2020, 88, e112.	2.3	1
33	Fabrication of Blood Capillary Models for Live Imaging Microarray Analysis. <i>Micromachines</i> , 2020, 11, 727.	1.4	7
34	In Situ Cross-Linking of Artificial Basement Membranes in 3D Tissues and Their Size-Dependent Molecular Permeability. <i>Biomacromolecules</i> , 2020, 21, 4923-4932.	2.6	4
35	A Four-Dimensional Organoid System to Visualize Cancer Cell Vascular Invasion. <i>Biology</i> , 2020, 9, 361.	1.3	3
36	Regulation of Chondrocyte Differentiation by Changing Intercellular Distances Using Type II Collagen Microfibers. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5711-5719.	2.6	3

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37	Fabrication of Artificial Nanobasement Membranes for Cell Compartmentalization in 3D Tissues. <i>Small</i> , 2020, 16, e1907434.	5.2	16
38	Capillary Alignment: Collagen Microfibers Induce Blood Capillary Orientation and Open Vascular Lumen (<i>Adv. Biosys.</i> 5/2020). <i>Advanced Biology</i> , 2020, 4, 2070052.	3.0	1
39	Collagen Microfibers Induce Blood Capillary Orientation and Open Vascular Lumen. <i>Advanced Biology</i> , 2020, 4, e2000038.	3.0	23
40	Effects of radiofrequency and ultrasound on the turnover rate of skin aging components (skin) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i> . <i>Research Communications</i> , 2020, 525, 73-79.	1.0	7
41	Heterotypic 3D pancreatic cancer model with tunable proportion of fibrotic elements. <i>Biomaterials</i> , 2020, 251, 120077.	5.7	23
42	Adipose tissue engineering. , 2020, , 393-423.		26
43	In vitro fabrication and application of engineered vascular hydrogels. <i>Polymer Journal</i> , 2020, 52, 871-881.	1.3	13
44	Oneâ€Step Photoactivation of a Dualâ€Functionalized Bioink as Cell Carrier and Cartilageâ€Binding Glue for Chondral Regeneration. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901792.	3.9	56
45	Bloodâ€brain barrier tissue engineering. , 2020, , 425-439.		2
46	A unique <i>ex vivo</i> tumor model: 3D cocultured system with cancer and stromal cells including blood microvessels.. <i>Journal of Clinical Oncology</i> , 2020, 38, 211-211.	0.8	1
47	Regulation of Cell Functions Using Nanofilms. <i>Membrane</i> , 2020, 45, 245-249.	0.0	0
48	In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. <i>Biomaterials</i> , 2019, 192, 140-148.	5.7	33
49	Liquefied Microcapsules as Dualâ€Microcarriers for 3D+3D Bottomâ€Up Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019, 8, e1901221.	3.9	30
50	<i>Porphyromonas gingivalis</i> induces penetration of lipopolysaccharide and peptidoglycan through the gingival epithelium via degradation of junctional adhesion molecule 1. <i>PLoS Pathogens</i> , 2019, 15, e1008124.	2.1	42
51	Layer-by-layer assembly of nanofilms to control cell functions. <i>Polymer Chemistry</i> , 2019, 10, 2960-2974.	1.9	27
52	Extracellular Matrix Microfiber Papers for Constructing Multilayered 3D Composite Tissues. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5610-5614.	2.6	10
53	Inhibitory effect of carbonyl reductase 1 against peritoneal progression of ovarian cancer: evaluation by <i>ex vivo</i> 3D-human peritoneal model. <i>Molecular Biology Reports</i> , 2019, 46, 4685-4697.	1.0	4
54	Fabrication of Perfusable Pseudo Blood Vessels by Controlling Solâ€Gel Transition of Gellan Gum Templates. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5637-5643.	2.6	16

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55	3D collagen microfibers stimulate the functionality of preadipocytes and maintain the phenotype of mature adipocytes for long term cultures. <i>Acta Biomaterialia</i> , 2019, 84, 194-207.	4.1	56
56	Pancreatic stellate cells derived from human pancreatic cancer demonstrate aberrant SPARC-dependent ECM remodeling in 3D engineered fibrotic tissue of clinically relevant thickness. <i>Biomaterials</i> , 2019, 192, 355-367.	5.7	32
57	Dual-functional gelatin-capped silver nanoparticles for antibacterial and antiangiogenic treatment of bacterial keratitis. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 112-126.	5.0	59
58	Three-dimensional cultured tissue constructs that imitate human living tissue organization for analysis of tumor cell invasion. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 292-300.	2.1	7
59	Fabrication Methods of Sustainable Hydrogels. , 2019, , 355-386.		5
60	Vascular Endothelial Growth Factor Incorporated Multilayer Film Induces Preangiogenesis in Endothelial Cells. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1833-1842.	2.6	8
61	Fabrication of engineered tubular tissue for small blood vessels via three-dimensional cellular assembly and organization ex vivo. <i>Journal of Biotechnology</i> , 2018, 276-277, 46-53.	1.9	5
62	Biofabrication: Development of Endothelial Cell Networks in 3D Tissues by Combination of Melt Electrospinning Writing with Cell Accumulation Technology (<i>Small</i> 2/2018). <i>Small</i> , 2018, 14, 1870010.	5.2	0
63	Seeing Elastin: A Near-Infrared Zwitterionic Fluorescent Probe for In Vivo Elastin Imaging. <i>CheM</i> , 2018, 4, 1128-1138.	5.8	28
64	Development of <i>In Vitro</i> Drug-Induced Cardiotoxicity Assay by Using Three-Dimensional Cardiac Tissues Derived from Human Induced Pluripotent Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 56-67.	1.1	88
65	Transplantation of artificial human lymphatic vascular tissues fabricated using a cell accumulation technique and their engraftment in mouse tissue with vascular remodelling. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1501-e1510.	1.3	6
66	Aggregation-Induced Singlet Oxygen Generation: Functional Fluorophore and Anthrylphenylene Dyad Self-Assemblies. <i>Chemistry - A European Journal</i> , 2018, 24, 636-645.	1.7	29
67	One-step delivery of a functional multi-layered cell sheet using a thermally expandable hydrogel with controlled presentation of cell adhesive proteins. <i>Biofabrication</i> , 2018, 10, 025001.	3.7	12
68	Development of Endothelial Cell Networks in 3D Tissues by Combination of Melt Electrospinning Writing with Cell Accumulation Technology. <i>Small</i> , 2018, 14, 1701521.	5.2	38
69	Biomedical and Pharmaceutical Researches Using Bioprinting Technology. <i>Materia Japan</i> , 2018, 57, 164-168.	0.1	0
70	Bioinspired multilayer membranes as potential adhesive patches for skin wound healing. <i>Biomaterials Science</i> , 2018, 6, 1962-1975.	2.6	61
71	In Vitro 3D blood/lymph-vascularized human stromal tissues for preclinical assays of cancer metastasis. <i>Biomaterials</i> , 2018, 179, 144-155.	5.7	44
72	Multicellular spheroid based on a triple co-culture: A novel 3D model to mimic pancreatic tumor complexity. <i>Acta Biomaterialia</i> , 2018, 78, 296-307.	4.1	179

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73	Effect of deacetylation degree on controlled pilocarpine release from injectable chitosan-g-poly(N-isopropylacrylamide) carriers. <i>Carbohydrate Polymers</i> , 2018, 197, 375-384.	5.1	28
74	Transplantation of three-dimensional artificial human vascular tissues fabricated using an extracellular matrix nanofilm-based cell-accumulation technique. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1303-1307.	1.3	17
75	Desmoplastic Reaction in 3D Pancreatic Cancer Tissues Suppresses Molecular Permeability. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700057.	3.9	19
76	In Vitro Design of Nanoparticles Using an Artificial 3D-Blood Vessel Wall Model for Atherosclerosis Treatment. <i>ACS Symposium Series</i> , 2017, , 195-225.	0.5	0
77	Construction of artificial human peritoneal tissue by cell-accumulation technique and its application for visualizing morphological dynamics of cancer peritoneal metastasis. <i>Biochemical and Biophysical Research Communications</i> , 2017, 494, 213-219.	1.0	16
78	Development of Full-Thickness Human Skin Equivalents with Blood and Lymph-like Capillary Networks by Cell Coating Technology. , 2017, , 345-362.		0
79	Super-Cationic Carbon Quantum Dots Synthesized from Spermidine as an Eye Drop Formulation for Topical Treatment of Bacterial Keratitis. <i>ACS Nano</i> , 2017, 11, 6703-6716.	7.3	325
80	High-Throughput Blood- and Lymph- Capillaries with Open-Ended Pores Which Allow the Transport of Drugs and Cells. <i>Advanced Healthcare Materials</i> , 2016, 5, 1969-1978.	3.9	18
81	Construction of Mouse Embryonic Cell-Derived 3D Pacemaker Tissues by Layer-by-Layer Nanofilm Coating. <i>ChemNanoMat</i> , 2016, 2, 466-471.	1.5	0
82	Use of Three-Dimensional Arterial Models To Predict the In Vivo Behavior of Nanoparticles for Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4461-4466.	7.2	11
83	Use of Three-Dimensional Arterial Models To Predict the In Vivo Behavior of Nanoparticles for Drug Delivery. <i>Angewandte Chemie</i> , 2016, 128, 4537-4542.	1.6	1
84	Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 515-521.	1.0	27
85	Salt Effects on Surface Structures of Polyelectrolyte Multilayers (PEMs) Investigated by Vibrational Sum Frequency Generation (SFG) Spectroscopy. <i>Langmuir</i> , 2016, 32, 3803-3810.	1.6	19
86	Nanometer-sized extracellular matrix coating on polymer-based scaffold for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 94-103.	2.1	32
87	Ultrastrong trapping of VEGF by graphene oxide: Anti-angiogenesis application. <i>Biomaterials</i> , 2016, 109, 12-22.	5.7	63
88	Three-Dimensional Tissue Models Constructed by Cells with Nanometer- or Micrometer-Sized Films on the Surfaces. <i>Chemical Record</i> , 2016, 16, 783-796.	2.9	9
89	Development of vascularized iPSC derived 3D-cardiomyocyte tissues by filtration Layer-by-Layer technique and their application for pharmaceutical assays. <i>Acta Biomaterialia</i> , 2016, 33, 110-121.	4.1	106
90	Control of vascular network location in millimeter-sized 3D-tissues by micrometer-sized collagen coated cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 131-136.	1.0	6

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91	Enhanced Thermal Stability of Polylactide by Terminal Conjugation Groups. Journal of Electronic Materials, 2016, 45, 2388-2394.	1.0	6
92	3D-cell assembly by control of cell surfaces. , 2015, , .		0
93	Fabrication of Cellâ€Hydroxyapatite Nanocrystal Composites Assisted with Layer-by-layer Nanometer-sized Extracellular Matrix Films on Individual Stem Cells. Chemistry Letters, 2015, 44, 1714-1716.	0.7	2
94	Evaluation system for mechanobiology of three-dimensional tissue multilayered in vitro. , 2015, , .		1
95	3D-fibroblast tissues constructed by a cell-coat technology enhance tight-junction formation of human colon epithelial cells. Biochemical and Biophysical Research Communications, 2015, 457, 363-369.	1.0	17
96	Cell effects on the formation of collagen triple helix fibers inside collagen gels or on cell surfaces. Polymer Journal, 2015, 47, 391-399.	1.3	16
97	Cellâ€Cell Crosslinking by Bioâ€Molecular Recognition of Heparinâ€Based Layerâ€byâ€Layer Nanofilms. Macromolecular Bioscience, 2015, 15, 312-317.	2.1	6
98	Dynamic Nanoâ€Interfaces Enable Harvesting of Functional 3Dâ€Engineered Tissues. Advanced Healthcare Materials, 2015, 4, 1164-1168.	3.9	10
99	Structural and Viscoelastic Properties of Layer-by-Layer Extracellular Matrix (ECM) Nanofilms and Their Interactions with Living Cells. ACS Biomaterials Science and Engineering, 2015, 1, 816-824.	2.6	10
100	Control of Cellâ€Cell Distance and Cell Densities in Millimeter-Sized 3D Tissues Constructed by Collagen Nanofiber Coating Techniques. ACS Biomaterials Science and Engineering, 2015, 1, 639-645.	2.6	13
101	Development of full-thickness human skin equivalents with blood and lymph-like capillary networks by cell coating technology. Journal of Biomedical Materials Research - Part A, 2015, 103, 3386-3396.	2.1	70
102	Three-dimensional human arterial wall models for in vitro permeability assessment of drug and nanocarriers. Biochemical and Biophysical Research Communications, 2015, 456, 392-397.	1.0	10
103	Construction of three-dimensional liver tissue models by cell accumulation technique and maintaining their metabolic functions for long-term culture without medium change. Journal of Biomedical Materials Research - Part A, 2015, 103, 1554-1564.	2.1	24
104	2C47 Fabrication of Small blood vessel using 3D Multilayer Assembly. The Proceedings of the Bioengineering Conference Annual Meeting of BED/J SME, 2015, 2015.27, 427-428.	0.0	0
105	Ultrastructure of blood and lymphatic vascular networks in three-dimensional cultured tissues fabricated by extracellular matrix nanofilm-based cell accumulation technique. Microscopy (Oxford,) Tj ETQq1 1 0.784314 rg80/Overl	1.0	14
106	Microfluidic perfusion culture system for multilayer artery tissue models. Biomicrofluidics, 2014, 8, 064113.	1.2	16
107	Circulatory culture system for elastic fiber development of tissue-engineered blood vessels. , 2014, , .		0
108	Control of extracellular microenvironments using polymer/protein nanofilms for the development of three-dimensional human tissue chips. Polymer Journal, 2014, 46, 524-536.	1.3	19

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109	Preparation of Biodegradable Peptide Nanospheres with Hetero PEG Brush Surfaces. <i>Macromolecular Bioscience</i> , 2014, 14, 142-150.	2.1	14
110	Secretions from placenta, after hypoxia/reoxygenation, can damage developing neurones of brain under experimental conditions. <i>Experimental Neurology</i> , 2014, 261, 386-395.	2.0	29
111	Effects of angiogenic factors and 3D-microenvironments on vascularization within sandwich cultures. <i>Biomaterials</i> , 2014, 35, 4739-4748.	5.7	84
112	Three-dimensional cell culture technique and pathophysiology. <i>Advanced Drug Delivery Reviews</i> , 2014, 74, 95-103.	6.6	86
113	The construction of cell-density controlled three-dimensional tissues by coating micrometer-sized collagen fiber matrices on single cell surfaces. <i>RSC Advances</i> , 2014, 4, 46141-46144.	1.7	17
114	Measurement of cell adhesion force by vertical forcible detachment using an arrowhead nanoneedle and atomic force microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2014, 451, 107-111.	1.0	16
115	Three-dimensional multilayers of smooth muscle cells as a new experimental model for vascular elastic fiber formation studies. <i>Atherosclerosis</i> , 2014, 233, 590-600.	0.4	21
116	Sustainable Release of Paclitaxel from Biodegradable Poly(β -glutamic acid) Nanoparticles for Treatment of Atherosclerosis. <i>Chemistry Letters</i> , 2014, 43, 1767-1769.	0.7	5
117	The Potential Use of Three-Dimensional Cellular Multilayers as a Blood Vessel Model. <i>Nanomedicine and Nanotoxicology</i> , 2014, , 95-129.	0.1	0
118	Three-Dimensional Assembly of Multilayered Tissues. <i>Procedia CIRP</i> , 2013, 5, 201-204.	1.0	3
119	Three-Dimensional Human Tissue Chips Fabricated by Rapid and Automatic Inkjet Cell Printing. <i>Advanced Healthcare Materials</i> , 2013, 2, 534-539.	3.9	156
120	Multilayered Blood Capillary Analogs in Biodegradable Hydrogels for In Vitro Drug Permeability Assays. <i>Advanced Functional Materials</i> , 2013, 23, 1736-1742.	7.8	51
121	Fabrication of multilayer structured tubular tissue using water transfer printing. , 2013, , .		0
122	Fabrication of in vitro three-dimensional multilayered blood vessel model using human endothelial and smooth muscle cells and high-strength PEG hydrogel. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 231-234.	1.1	32
123	Survival and structural evaluations of three-dimensional tissues fabricated by the hierarchical cell manipulation technique. <i>Acta Biomaterialia</i> , 2013, 9, 4698-4706.	4.1	29
124	Effectiveness of Nanometer-Sized Extracellular Matrix Layer-by-Layer Assembled Films for a Cell Membrane Coating Protecting Cells from Physical Stress. <i>Langmuir</i> , 2013, 29, 7362-7368.	1.6	79
125	Tissue Engineering: Three-Dimensional Human Tissue Chips Fabricated by Rapid and Automatic Inkjet Cell Printing (<i>Adv. Healthcare Mater.</i> 4/2013). <i>Advanced Healthcare Materials</i> , 2013, 2, 533-533.	3.9	4
126	Safe Control of Construction-Deconstruction of High-density PEG Brushes on the Surface of Peptide Nanospheres by Thermally Induced Shrinkage of PEG-SS-PEG. <i>Chemistry Letters</i> , 2013, 42, 344-346.	0.7	3

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127	Biomedical Applications: Multilayered Blood Capillary Analogs in Biodegradable Hydrogels for In Vitro Drug Permeability Assays (Adv. Funct. Mater. 14/2013). Advanced Functional Materials, 2013, 23, 1730-1730.	7.8	0
128	Three-Dimensional Assembly of Multilayered Tissues Using Water Transfer Printing. Journal of Robotics and Mechatronics, 2013, 25, 690-697.	0.5	5
129	Control of Cellular Inflammation by Layer-by-layer Nanofilms through Different Driving Forces. Chemistry Letters, 2012, 41, 523-524.	0.7	10
130	Development of Three-Dimensional Tissue Models Based on Hierarchical Cell Manipulation Using Nanofilms. Bulletin of the Chemical Society of Japan, 2012, 85, 401-414.	2.0	31
131	Morphological and Histological Evaluations of 3D-Layered Blood Vessel Constructs Prepared by Hierarchical Cell Manipulation. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 63-79.	1.9	40
132	Engineering fibrotic tissue in pancreatic cancer: A novel three-dimensional model to investigate nanoparticle delivery. Biochemical and Biophysical Research Communications, 2012, 419, 32-37.	1.0	40
133	Formation of nanofilms on cell surfaces to improve the insertion efficiency of a nanoneedle into cells. Biochemical and Biophysical Research Communications, 2012, 420, 662-665.	1.0	10
134	Effect of Degree of Branching on Properties of Photosensitive Nanoparticles as Drug Delivery Carriers. Macromolecular Chemistry and Physics, 2012, 213, 2157-2164.	1.1	3
135	Investigation on thermoresponsive behavior of biodegradable poly(L-glutamic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Tj 4823-4828.	2.5	0
136	Improvement of Blood Compatibility on Polysulfone-Polyvinylpyrrolidone Blend Films as a Model Membrane of Dialyzer by Physical Adsorption of Recombinant Soluble Human Thrombomodulin (ART-123). Journal of Biomaterials Science, Polymer Edition, 2012, 23, 593-608.	1.9	4
137	In vitro reproduction of endochondral ossification using a 3D mesenchymal stem cell construct. Integrative Biology (United Kingdom), 2012, 4, 1207.	0.6	43
138	LbL Assemblies Using van der Waals or Affinity Interactions and Their Applications. , 2012, , 99-133.		2
139	Layer-by-Layer Assembly Through Weak Interactions and Their Biomedical Applications. Advanced Materials, 2012, 24, 454-474.	11.1	155
140	7C12 3D-Cell Manipulation Using Nanofilms and Development of Engineered Tissue Models. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012, 2012.24, _7C12-1_-_7C12-2_.	0.0	0
141	Photo-tunable protein release from biodegradable nanoparticles composed of cinnamic acid derivatives. Journal of Controlled Release, 2011, 149, 182-189.	4.8	37
142	Mechanism of high thermal stability of commercial polyesters and polyethers conjugated with bio-based caffeic acid. Journal of Polymer Science Part A, 2011, 49, 3152-3162.	2.5	17
143	Physical and Specific Crosslinking of Collagen Fibers by Supramolecular Nanogelators. Advanced Materials, 2011, 23, 2957-2961.	11.1	16
144	Rapid Construction of Three-Dimensional Multilayered Tissues with Endothelial Tube Networks by the Cell Accumulation Technique. Advanced Materials, 2011, 23, 3506-3510.	11.1	241

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145	Quantitative 3D Analysis of Nitric Oxide Diffusion in a 3D Artery Model Using Sensor Particles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7557-7561.	7.2	38
146	Anisotropic Mechanical Properties of Collagen Hydrogels Induced by Uniaxial-Flow for Ocular Applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1427-1442.	1.9	23
147	Self-Assembled Structure of Peptide Nanospheres Induces High Stability against Hydrolysis and Sterilization. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1035-1048.	1.9	6
148	Biocompatible and Highly Sensitive Nitric Oxide Sensor Particles Prepared by Layer-by-layer Assembly. <i>Chemistry Letters</i> , 2010, 39, 42-43.	0.7	19
149	Preparation of Reduction-sensitive Nanogels with a Large Swelling Capacity by a Surfactant-free Precipitation Method. <i>Chemistry Letters</i> , 2010, 39, 1184-1185.	0.7	2
150	2P223 Effect of fibronectin thin film on insertion efficiency of a nanoneedle into culture cells(The Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
151	Enhancement of the blood compatibility of dialyzer membranes by the physical adsorption of human thrombomodulin (ARTâ€123). <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 95B, 291-297.	1.6	5
152	Preparation and Unique pHâ€Responsive Properties of Novel Biodegradable Nanocapsules Composed of Poly(Lâ€glutamic acid) and Chitosan as Weak Polyelectrolytes. <i>Macromolecular Bioscience</i> , 2010, 10, 271-277.	2.1	32
153	Control of Cell Surface and Functions by Layer-by-Layer Nanofilms. <i>Langmuir</i> , 2010, 26, 5670-5678.	1.6	94
154	Development of Thick and Highly Cell-Incorporated Engineered Tissues by Hydrogel Template Approach with Basic Fibroblast Growth Factor or Ascorbic Acid. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 415-428.	1.9	3
155	Three-dimensional constructs induce high cellular activity: Structural stability and the specific production of proteins and cytokines. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 153-157.	1.0	32
156	Pharmaceutical and Medical Applications of Poly-Gamma-Glutamic Acid. <i>Microbiology Monographs</i> , 2010, , 119-153.	0.3	10
157	Complete surface control of peptide nanospheres with detachable and attachable polymer brush layers. <i>Chemical Communications</i> , 2010, 46, 7025.	2.2	11
158	Protein nanoarrays on a highly-oriented lamellar surface. <i>Chemical Communications</i> , 2010, 46, 1911-1913.	2.2	22
159	Scaffold-Free Tissue-Engineered Constructâ€Hydroxyapatite Composites Generated by an Alternate Soaking Process: Potential for Repair of Bone Defects. <i>Tissue Engineering - Part A</i> , 2009, 15, 55-63.	1.6	29
160	Scaffoldâ€Mediated 2D Cellular Orientations for Construction of Three Dimensionally Engineered Tissues Composed of Oriented Cells and Extracellular Matrices. <i>Advanced Functional Materials</i> , 2009, 19, 1001-1007.	7.8	17
161	Unique Sizeâ€Change Behavior of Photoâ€Crosslinked Cinnamic Acid Derivative Nanoparticles during Hydrolytic Degradation. <i>Macromolecular Bioscience</i> , 2009, 9, 248-255.	2.1	19
162	Disulfideâ€Crosslinked Electrospun Poly(Lâ€glutamic acid) Nonwovens as Reductionâ€Responsive Scaffolds. <i>Macromolecular Bioscience</i> , 2009, 9, 568-574.	2.1	56

#	ARTICLE	IF	CITATIONS
163	Photoreactive Polylactide Nanoparticles by the Terminal Conjugation of Biobased Caffeic Acid. <i>Langmuir</i> , 2009, 25, 10567-10574.	1.6	16
164	Development of Photoreactive Degradable Branched Polyesters with High Thermal and Mechanical Properties. <i>Biomacromolecules</i> , 2009, 10, 766-772.	2.6	36
165	Photo-Cross-Linking Induces Size Change and Stealth Properties of Water-Dispersible Cinnamic Acid Derivative Nanoparticles. <i>Bioconjugate Chemistry</i> , 2009, 20, 1917-1923.	1.8	35
166	Functional multilayered capsules for targeting and local drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 1207-1217.	2.4	72
167	Development of a Collagen Hydrogel with High Mechanical Strength by a Simple Orientation Method for Triple-helix. <i>Chemistry Letters</i> , 2009, 38, 936-936.	0.7	1
168	Physical adsorption of human thrombomodulin (ART-123) onto polymeric biomaterials for developing an antithrombogenic blood-contacting material. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 1-9.	2.1	11
169	Fabrication of Temperature-Responsive Bending Hydrogels with a Nanostructured Gradient. <i>Advanced Materials</i> , 2008, 20, 2080-2083.	11.1	167
170	Photo-Cross-Linking and Cleavage Induced Reversible Size Change of Bio-Based Nanoparticles. <i>Macromolecules</i> , 2008, 41, 8167-8172.	2.2	73
171	Locally Controlled Release of Basic Fibroblast Growth Factor from Multilayered Capsules. <i>Biomacromolecules</i> , 2008, 9, 2202-2206.	2.6	73
172	Thermally stable and photoreactive polylactides by the terminal conjugation of bio-based caffeic acid. <i>Chemical Communications</i> , 2008, , 3918.	2.2	7
173	Synthesis and properties of coumaric acid derivative homo-polymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 75-85.	1.9	43
174	One-step Preparation of Cationic Sugar-Peptide Nanospheres Using the Water-soluble Chitosan-initiated Polymerization of α -Phenylalanine-N-carboxylic Anhydride. <i>Chemistry Letters</i> , 2008, 37, 1262-1263.	0.7	5
175	Time-modulated Release of Multiple Proteins from Enzyme-responsive Multilayered Capsules. <i>Chemistry Letters</i> , 2008, 37, 238-239.	0.7	23
176	Development of a Collagen Hydrogel with High Mechanical Strength by a Simple Orientation Method for Triple-helix. <i>Chemistry Letters</i> , 2008, 37, 1254-1255.	0.7	5
177	Fabrication and enzymatic degradation of fibronectin-based ultrathin films. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 1565-1573.	1.9	18
178	Controlled release of vascular endothelial growth factor from alginate hydrogels nano-coated with polyelectrolyte multilayer films. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 775-783.	1.9	49
179	PEG Brush Peptide Nanospheres with Stealth Properties and Chemical Functionality. <i>Macromolecules</i> , 2007, 40, 6385-6392.	2.2	61
180	Fabrication of Cellular Multilayers with Nanometer-Sized Extracellular Matrix Films. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4689-4692.	7.2	185

#	ARTICLE	IF	CITATIONS
181	Hydroxyapatite formed on/in agarose gel induces activation of blood coagulation and platelets aggregation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 456-461.	1.6	13
182	The construction of 3D-engineered tissues composed of cells and extracellular matrices by hydrogel template approach. Biomaterials, 2007, 28, 2729-2737.	5.7	98
183	Enzyme-Responsive Release of Encapsulated Proteins from Biodegradable Hollow Capsules. Biomacromolecules, 2006, 7, 2715-2718.	2.6	197
184	One-Step Advanced Preparation of Surface-Functional Peptide Nanospheres by the Polymerization of l-Phenylalanine-N-Carboxyanhydride with Dual Initiators. Langmuir, 2006, 22, 1396-1399.	1.6	23
185	Biodegradable LC Oligomers with Cranked Branching Points Form Highly Oriented Fibrous Scaffold for Cytoskeletal Orientation. Chemistry of Materials, 2006, 18, 6220-6226.	3.2	34
186	Rapid deswelling of semi-IPNs with nanosized tracts in response to pH and temperature. Journal of Controlled Release, 2006, 110, 387-394.	4.8	50
187	Rapid and Precise Release from Nano-Tracted Poly(N-isopropylacrylamide) Hydrogels Containing Linear Poly(acrylic acid). Macromolecular Bioscience, 2006, 6, 959-965.	2.1	26
188	Back Cover: Macromol. Biosci. 11/2006. Macromolecular Bioscience, 2006, 6, 968-968.	2.1	0
189	Enhanced effects of lithocholic acid incorporation into liquid-crystalline biopolymer poly(coumaric) Tj ETQq1 1 0.784314 rgBT /Overlock 45	5.7	45
190	Novel functional biodegradable polymer. III. The construction of poly(β -glutamic acid)-sulfonate hydrogel with fibroblast growth factor-2 activity. Journal of Biomedical Materials Research - Part A, 2005, 73A, 485-491.	2.1	32
191	Polyelectrolyte multilayers prepared on hydrogel surfaces. Journal of Polymer Science Part A, 2005, 43, 1062-1067.	2.5	16
192	Novel Functional Biodegradable Polymer IV: A pH-Sensitive Controlled Release of Fibroblast Growth Factor-2 from a Poly(β -glutamic acid)-Sulfonate Matrix for Tissue Engineering. Biomacromolecules, 2005, 6, 3351-3356.	2.6	98
193	Nanosphere Induced Gene Expression in Human Dendritic Cells. Nano Letters, 2005, 5, 2168-2173.	4.5	26
194	Self-assembled Soft Nanofibrils of Amphipathic Polypeptides and Their Morphological Transformation. Chemistry of Materials, 2005, 17, 2484-2486.	3.2	27
195	Self-Assembling Bionanoparticles of Poly(β -Lysine) Bearing Cholesterol as a Biomesogen. Biomacromolecules, 2005, 6, 2374-2379.	2.6	18
196	Novel Functional Biodegradable Polymer II: A Fibroblast Growth Factor-2 Activities of Poly(β -glutamic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 256 29	2.6	29
197	Controlled hydrophobic/hydrophilic chitosan: colloidal phenomena and nanosphere formation. Colloid and Polymer Science, 2004, 282, 337-342.	1.0	50
198	Thermotropic Liquid-Crystalline Polymer Derived from Natural Cinnamoyl Biomonomers. Macromolecular Rapid Communications, 2004, 25, 673-677.	2.0	72

#	ARTICLE	IF	CITATIONS
199	Stably-dispersed and Surface-functional Bionanoparticles Prepared by Self-assembling Amphipathic Polymers of Hydrophilic Poly(β -glutamic acid) Bearing Hydrophobic Amino Acids. Chemistry Letters, 2004, 33, 398-399.	0.7	87
200	Preparation of Biodegradable Hollow Nanocapsules by Silica Template Method. Chemistry Letters, 2004, 33, 1552-1553.	0.7	61
201	Novel Guglielmi detachable coils (GDCs) for the treatment of brain aneurysms. In vitro study of hydroxyapatite coating on Pt plate as GDCs model. Journal of Biomedical Materials Research Part B, 2003, 66B, 429-438.	3.0	9
202	Novel Functional Biodegradable Polymer: Synthesis and Anticoagulant Activity of Poly(β -Glutamic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	50
203	Synthesis and characterization of novel biodegradable polymers composed of hydroxycinnamic acid and D,L-lactic acid. Journal of Applied Polymer Science, 2001, 82, 2357-2364.	1.3	62
204	Synthesis and characterization of novel biodegradable polymers composed of hydroxycinnamic acid and D,L-lactic acid. Journal of Applied Polymer Science, 2001, 82, 2357-2364.	1.3	2
205	Biomacromolecule-fueled Transient Volume Phase Transition of a Hydrogel. Angewandte Chemie, 0, , .	1.6	1