

Akihiro Nishiguchi

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,416
citations

361296

20
h-index

345118

36
g-index

60
all docs

60
docs citations

60
times ranked

1810
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Construction of Three-Dimensional Multilayered Tissues with Endothelial Tube Networks by the Cell Accumulation Technique. <i>Advanced Materials</i> , 2011, 23, 3506-3510.	11.1	241
2	4D Printing of a Light-Driven Soft Actuator with Programmed Printing Density. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12176-12185.	4.0	110
3	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
4	Effects of angiogenic factors and 3D-microenvironments on vascularization within sandwich cultures. <i>Biomaterials</i> , 2014, 35, 4739-4748.	5.7	84
5	Natural severe fever with thrombocytopenia syndrome virus infection in domestic cats in Japan. <i>Veterinary Microbiology</i> , 2019, 236, 108346.	0.8	56
6	In-Gel Direct Laser Writing for 3D-Designed Hydrogel Composites That Undergo Complex Self-Shaping. <i>Advanced Science</i> , 2018, 5, 1700038.	5.6	46
7	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
8	Underwater-adhesive microparticle dressing composed of hydrophobically-modified Alaska pollock gelatin for gastrointestinal tract wound healing. <i>Acta Biomaterialia</i> , 2019, 99, 387-396.	4.1	44
9	In vitro reproduction of endochondral ossification using a 3D mesenchymal stem cell construct. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1207.	0.6	43
10	Multifunctional Hydrophobized Microparticles for Accelerated Wound Healing after Endoscopic Submucosal Dissection. <i>Small</i> , 2019, 15, e1901566.	5.2	41
11	Production of interleukin (IL)-33 in the lungs during multiple antigen challenge-induced airway inflammation in mice, and its modulation by a glucocorticoid. <i>European Journal of Pharmacology</i> , 2015, 757, 34-41.	1.7	34
12	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
13	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
14	Basement Membrane Mimics of Biofunctionalized Nanofibers for a Bipolar-Cultured Human Primary Alveolar-Capillary Barrier Model. <i>Biomacromolecules</i> , 2017, 18, 719-727.	2.6	32
15	Ultrastructure of blood and lymphatic vascular networks in three-dimensional cultured tissues fabricated by extracellular matrix nanofilm-based cell accumulation technique. <i>Microscopy (Oxford)</i> Tj ETQq1 1 0.784314 rg30/Overl	1.0	30
16	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
17	Osteoclast-Responsive, Injectable Bone of Bisphosphonated-Nanocellulose that Regulates Osteoclast/Osteoblast Activity for Bone Regeneration. <i>Biomacromolecules</i> , 2019, 20, 1385-1393.	2.6	28
18	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

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19	Human Co- and Triple-Culture Model of the Alveolar-Capillary Barrier on a Basement Membrane Mimic. <i>Tissue Engineering¹ - Part C: Methods</i> , 2018, 24, 495-503.	1.1	25
20	Swarm robotic network using Lévy flight in target detection problem. <i>Artificial Life and Robotics</i> , 2016, 21, 295-301.	0.7	22
21	A Thixotropic, Cell-Infiltrative Nanocellulose Hydrogel That Promotes in Vivo Tissue Remodeling. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 946-958.	2.6	20
22	A pH-driven genipin gelator to engineer decellularized extracellular matrix-based tissue adhesives. <i>Acta Biomaterialia</i> , 2021, 131, 211-221.	4.1	20
23	Designing an anti-inflammatory and tissue-adhesive colloidal dressing for wound treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110737.	2.5	19
24	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
25	3D-fibroblast tissues constructed by a cell-coat technology enhance tight-junction formation of human colon epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 457, 363-369.	1.0	17
26	Sustained-Immunostimulatory nanocellulose scaffold to enhance vaccine efficacy. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1159-1170.	2.1	16
27	3D-Printing of Structure-Controlled Antigen Nanoparticles for Vaccine Delivery. <i>Biomacromolecules</i> , 2020, 21, 2043-2048.	2.6	15
28	Oligoethyleneimine-Conjugated Hyaluronic Acid Modulates Inflammatory Responses and Enhances Therapeutic Efficacy for Ulcerative Colitis. <i>Advanced Functional Materials</i> , 2021, 31, 2100548.	7.8	14
29	Hotmelt tissue adhesive with supramolecularly-controlled sol-gel transition for preventing postoperative abdominal adhesion. <i>Acta Biomaterialia</i> , 2022, 146, 80-93.	4.1	14
30	Hemostatic, Tissue-Adhesive Colloidal Wound Dressing Functionalized by UV Irradiation. <i>ACS Applied Bio Materials</i> , 2020, 3, 1705-1711.	2.3	13
31	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
32	Robust closure of post-endoscopic submucosal dissection perforation by microparticle-based wound dressing. <i>Materials Science and Engineering C</i> , 2021, 123, 111993.	3.8	11
33	Dynamic Nano-Interfaces Enable Harvesting of Functional 3D-Engineered Tissues. <i>Advanced Healthcare Materials</i> , 2015, 4, 1164-1168.	3.9	10
34	Structural and Viscoelastic Properties of Layer-by-Layer Extracellular Matrix (ECM) Nanofilms and Their Interactions with Living Cells. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 816-824.	2.6	10
35	Long-Term and Clinically Relevant Full-Thickness Human Skin Equivalent for Psoriasis. <i>ACS Applied Bio Materials</i> , 2020, 3, 6639-6647.	2.3	9
36	Reconstruction of Ultra-Thin Alveolar-Capillary Basement Membrane Mimics. <i>Advanced Biology</i> , 2021, 5, e2000427.	1.4	9

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37	Prevention of postoperative adhesion with a colloidal gel based on decyl group-modified Alaska pollock gelatin microparticles. <i>Acta Biomaterialia</i> , 2022, 149, 139-149.	4.1	9
38	Engineering an Injectable Tough Tissue Adhesive through Nanocellulose Reinforcement. <i>ACS Applied Bio Materials</i> , 2020, 3, 9093-9100.	2.3	8
39	In Situ 3D-Printing using a Bio-ink of Protein-photosensitizer Conjugates for Single-cell Manipulation. <i>ACS Applied Bio Materials</i> , 2020, 3, 2378-2384.	2.3	8
40	Three-dimensional structure of a high affinity anti-(4-hydroxy-3-nitrophenyl)acetyl antibody possessing a glycine residue at position 95 of the heavy chain. <i>Molecular Immunology</i> , 2019, 114, 545-552.	1.0	7
41	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
42	Adhesive Submucosal Injection Material Based on the Nonanal Group-Modified Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (Materials, 2020, 3, 4370-4379.	2.3	7
43	Anisometric Microstructures to Determine Minimal Critical Physical Cues Required for Neurite Alignment. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100874.	3.9	7
44	Cell-Cell Crosslinking by Bio-Molecular Recognition of Heparin-Based Layer-by-Layer Nanofilms. <i>Macromolecular Bioscience</i> , 2015, 15, 312-317.	2.1	6
45	Prevention of pulmonary air leaks using a biodegradable tissue-adhesive fiber sheet based on Alaska pollock gelatin modified with decanyl groups. <i>Biomaterials Science</i> , 2021, 9, 861-873.	2.6	5
46	Covering Post-Endoscopic Submucosal Dissection Ulcers in Miniature Swine with Hexanoyl (Hx:C6) Group-Modified Alkaline-Treated Gelatin Porous Film (HAG) Induces Proper Healing by Decreasing Inflammation and Fibrosis. <i>Digestion</i> , 2021, 102, 415-427.	1.2	4
47	A Trade-off Between Thermostability and Binding Affinity of Anti-(4-hydroxy-3-nitrophenyl)Acetyl Antibodies During the Course of Affinity Maturation. <i>Protein Journal</i> , 2022, 41, 293-303.	0.7	4
48	Development of an immunosuppressive camouflage-coating platform with nanocellulose and cell membrane vesicles. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1912-1924.	1.9	3
49	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
50	Evaluation system for mechanobiology of three-dimensional tissue multilayered in vitro. , 2015, , .		1
51	A Novel Alaska Pollock Gelatin Sealant Shows Higher Bonding Strength and Nerve Regeneration Comparable to That of Fibrin Sealant in a Cadaveric Model and a Rat Model. <i>Plastic and Reconstructive Surgery</i> , 2021, 148, 742e-752e.	0.7	1
52	Fabrication of highly stretchable hydrogel based on crosslinking between alendronates functionalized poly-l ³ -glutamate and calcium cations. <i>Materials Today Bio</i> , 2022, 14, 100225.	2.6	1
53	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
54	Biological effect of vascular endothelial growth factor-C on culture lymphatic endothelial cells. <i>Journal of Dermatological Science</i> , 2016, 84, e26.	1.0	0

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55	The Potential Use of Three-Dimensional Cellular Multilayers as a Blood Vessel Model. <i>Nanomedicine and Nanotoxicology</i> , 2014, , 95-129.	0.1	0
56	Development of biomaterials for constructing tumor microenvironment <i>in vitro</i> models. <i>Drug Delivery System</i> , 2021, 36, 256-264.	0.0	0