Atsushi Mahara

List of Publications by Year
in descending order

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41	680	567281 15	580821 25
papers	citations	h-index	g-index

41	41	41	634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	<scp>REDV</scp>â€modified decellularized microvascular grafts for arterial and venous reconstruction. Journal of Biomedical Materials Research - Part A, 2022, 110, 547-558.	4.0	5
2	Accelerated tissue regeneration in decellularized vascular grafts with a patterned pore structure. Journal of Materials Chemistry B, 2022, 10, 2544-2550.	5.8	4
3	8. Polymeric MR Contrast Agents for Microvascular Imaging. Japanese Journal of Radiological Technology, 2022, 78, 520-525.	0.1	0
4	Endothelial cell adhesion and blood response to hemocompatible peptide 1 (HCP-1), REDV, and RGD peptide sequences with free N-terminal amino groups immobilized on a biomedical expanded polytetrafluorethylene surface. Biomaterials Science, 2021, 9, 1034-1043.	5.4	14
5	Adhesion of Flk1-expressing cells under shear flow in phospholipid polymer-coated immunoaffinity channels. Journal of Micromechanics and Microengineering, 2021, 31, 045012.	2.6	4
6	Identification of circulating cells interacted with integrin Î±4Î²1 ligand peptides REDV or HGGVRLY. Peptides, 2021, 136, 170470.	2.4	5
7	A Novel Treatment for Giant Congenital Melanocytic Nevi Combining Inactivated Autologous Nevus Tissue by High Hydrostatic Pressure and a Cultured Epidermal Autograft: First-in-Human, Open, Prospective Clinical Trial. Plastic and Reconstructive Surgery, 2021, 148, 71e-76e.	1.4	3
8	Impact of REDV peptide density and its linker structure on the capture, movement, and adhesion of flowing endothelial progenitor cells in microfluidic devices. Materials Science and Engineering C, 2021, 129, 112381.	7.3	10
9	Simple and efficient method for consecutive inactivationâ€“cryopreservation of porcine skin grafts. Journal of Artificial Organs, 2020, 23, 147-155.	0.9	1
10	Visualising brain capillaries in magnetic resonance images via supramolecular self-assembly. Chemical Communications, 2020, 56, 11807-11810.	4.1	3
11	Anti-platelet adhesion and in situ capture of circulating endothelial progenitor cells on ePTFE surface modified with poly(2-methacryloyloxyethyl phosphorylcholine) (PMPC) and hemocompatible peptide 1 (HCP-1). Colloids and Surfaces B: Biointerfaces, 2020, 193, 111113.	5.0	24
12	Arg-Glu-Asp-Val Peptide Immobilized on an Acellular Graft Surface Inhibits Platelet Adhesion and Fibrin Clot Deposition in a Peptide Density-Dependent Manner. ACS Biomaterials Science and Engineering, 2020, 6, 2050-2061.	5.2	13
13	Small-Diameter Synthetic Vascular Graft Immobilized with the REDV Peptide Reduces Early-Stage Fibrin Clot Deposition and Results in Graft Patency in Rats. Biomacromolecules, 2020, 21, 3092-3101.	5.4	10
14	Exploration of the Pressurization Condition for Killing Human Skin Cells and Skin Tumor Cells by High Hydrostatic Pressure. BioMed Research International, 2020, 2020, 1-17.	1.9	7
15	Cellular attachment behavior on biodegradable polymer surface immobilizing endothelial cell-specific peptide. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 1475-1488.	3.5	6
16	Modification of decellularized vascular xenografts with 8â€arm polyethylene glycol suppresses macrophage infiltration but maintains graft degradability. Journal of Biomedical Materials Research - Part A, 2020, 108, 2005-2014.	4.0	11
17	High Hydrostatic Pressure Therapy Annihilates Squamous Cell Carcinoma in a Murine Model. BioMed Research International, 2020, 2020, 1-9.	1.9	3
18	Accelerated endothelialization and suppressed thrombus formation of acellular vascular grafts by modifying with neointima-inducing peptide: A time-dependent analysis of graft patency in rat-abdominal transplantation model. Colloids and Surfaces B: Biointerfaces, 2019, 181, 806-813.	5.0	18

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19	Shortâ€term evaluation of thromboresistance of a poly(ether ether ketone) (PEEK) mechanical heart valve with poly(2â€methacryloyloxyethyl phosphorylcholine) (PMPC)â€grafted surface in a porcine aortic valve replacement model. Journal of Biomedical Materials Research - Part A, 2019, 107, 1052-1063.	4.0	21
20	Superfine Magnetic Resonance Imaging of the Cerebrovasculature Using Selfâ€Assembled Branched Polyethylene Glycolâ€“Gd Contrast Agent. Macromolecular Bioscience, 2018, 18, e1700391.	4.1	4
21	Direct surface modification of metallic biomaterials via tyrosine oxidation aiming to accelerate the reâ€endothelialization of vascular stents. Journal of Biomedical Materials Research - Part A, 2018, 106, 491-499.	4.0	18
22	Influence of Molecular Mobility on Contrast Efficiency of Branched Polyethylene Glycol Contrast Agent. Contrast Media and Molecular Imaging, 2018, 2018, 1-8.	0.8	1
23	Design of in situ porcine closed-circuit system for assessing blood-contacting biomaterials. Journal of Artificial Organs, 2018, 21, 317-324.	0.9	15
24	Tissue-engineered submillimeter-diameter vascular grafts for free flap survival in rat model. Biomaterials, 2018, 179, 156-163.	11.4	38
25	A surface graft polymerization process on chemically stable medical ePTFE for suppressing platelet adhesion and activation. Biomaterials Science, 2018, 6, 1908-1915.	5.4	29
26	An evaluation of the engraftment and the blood flow of porcine skin autografts inactivated by high hydrostatic pressure. , 2017, 105, 1091-1101.		8
27	Label-Free Separation of Induced Pluripotent Stem Cells with Anti-SSEA-1 Antibody Immobilized Microfluidic Channel. Langmuir, 2017, 33, 1576-1582.	3.5	18
28	In vivo guided vascular regeneration with a nonâ€porous elastinâ€like polypeptide hydrogel tubular scaffold. Journal of Biomedical Materials Research - Part A, 2017, 105, 1746-1755.	4.0	25
29	The superiority of the autografts inactivated by high hydrostatic pressure to decellularized allografts in a porcine model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2653-2661.	3.4	12
30	Melanin pigments in the melanocytic nevus regress spontaneously after inactivation by high hydrostatic pressure. PLoS ONE, 2017, 12, e0186958.	2.5	10
31	The Alteration of the Epidermal Basement Membrane Complex of Human Nevus Tissue and Keratinocyte Attachment after High Hydrostatic Pressurization. BioMed Research International, 2016, 2016, 1-9.	1.9	11
32	Verification of the Inactivation of Melanocytic Nevus in vitro Using a Newly Developed Portable High Hydrostatic Pressure Device. Cells Tissues Organs, 2016, 201, 170-179.	2.3	13
33	Preparation of Inactivated Human Skin Using High Hydrostatic Pressurization for Full-Thickness Skin Reconstruction. PLoS ONE, 2015, 10, e0133979.	2.5	21
34	The Rapid Inactivation of Porcine Skin by Applying High Hydrostatic Pressure without Damaging the Extracellular Matrix. BioMed Research International, 2015, 2015, 1-9.	1.9	22
35	Inactivation of Human Nevus Tissue Using High Hydrostatic Pressure for Autologous Skin Reconstruction: A Novel Treatment for Giant Congenital Melanocytic Nevi. Tissue Engineering - Part C: Methods, 2015, 21, 1178-1187.	2.1	18
36	Tissue-engineered acellular small diameter long-bypass grafts withÂneointima-inducing activity. Biomaterials, 2015, 58, 54-62.	11.4	127

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37	Complete Cell Killing by Applying High Hydrostatic Pressure for Acellular Vascular Graft Preparation. BioMed Research International, 2014, 2014, 1-7.	1.9	31
38	Phospholipid polymer-based antibody immobilization for cell rolling surfaces in stem cell purification system. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1590-1601.	3.5	12
39	Antibodyâ€immobilized column for quick cell separation based on cell rolling. Biotechnology Progress, 2010, 26, 441-447.	2.6	21
40	Design and characterization of a polymeric MRI contrast agent based on PVA for in vivo livingâ€cell tracking. Contrast Media and Molecular Imaging, 2010, 5, 309-317.	0.8	24
41	Continuous separation of cells of high osteoblastic differentiation potential from mesenchymal stem cells on an antibody-immobilized column. Biomaterials, 2010, 31, 4231-4237.	11.4	40