

Atsushi Mahara

List of Publications by Year in descending order

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41
papers

680
citations

567281

15
h-index

580821

25
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41
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41
docs citations

41
times ranked

634
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue-engineered acellular small diameter long-bypass grafts with neointima-inducing activity. <i>Biomaterials</i> , 2015, 58, 54-62.	11.4	127
2	Continuous separation of cells of high osteoblastic differentiation potential from mesenchymal stem cells on an antibody-immobilized column. <i>Biomaterials</i> , 2010, 31, 4231-4237.	11.4	40
3	Tissue-engineered submillimeter-diameter vascular grafts for free flap survival in rat model. <i>Biomaterials</i> , 2018, 179, 156-163.	11.4	38
4	Complete Cell Killing by Applying High Hydrostatic Pressure for Acellular Vascular Graft Preparation. <i>BioMed Research International</i> , 2014, 2014, 1-7.	1.9	31
5	A surface graft polymerization process on chemically stable medical ePTFE for suppressing platelet adhesion and activation. <i>Biomaterials Science</i> , 2018, 6, 1908-1915.	5.4	29
6	<i>In vivo</i> guided vascular regeneration with a nonporous elastin-like polypeptide hydrogel tubular scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1746-1755.	4.0	25
7	Design and characterization of a polymeric MRI contrast agent based on PVA for <i>in vivo</i> living cell tracking. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 309-317.	0.8	24
8	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). <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111113.	5.0	24
9	The Rapid Inactivation of Porcine Skin by Applying High Hydrostatic Pressure without Damaging the Extracellular Matrix. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	22
10	Antibody-immobilized column for quick cell separation based on cell rolling. <i>Biotechnology Progress</i> , 2010, 26, 441-447.	2.6	21
11	Preparation of Inactivated Human Skin Using High Hydrostatic Pressurization for Full-Thickness Skin Reconstruction. <i>PLoS ONE</i> , 2015, 10, e0133979.	2.5	21
12	Short-term evaluation of thromboresistance of a poly(ether ether ketone) (PEEK) mechanical heart valve with poly(2-methacryloyloxyethyl phosphorylcholine) (PMPC)-grafted surface in a porcine aortic valve replacement model. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1052-1063.	4.0	21
13	Inactivation of Human Nevus Tissue Using High Hydrostatic Pressure for Autologous Skin Reconstruction: A Novel Treatment for Giant Congenital Melanocytic Nevi. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 1178-1187.	2.1	18
14	Label-Free Separation of Induced Pluripotent Stem Cells with Anti-SSEA-1 Antibody Immobilized Microfluidic Channel. <i>Langmuir</i> , 2017, 33, 1576-1582.	3.5	18
15	Direct surface modification of metallic biomaterials via tyrosine oxidation aiming to accelerate the re-endothelialization of vascular stents. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 491-499.	4.0	18
16	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. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 806-813.	5.0	18
17	Design of in situ porcine closed-circuit system for assessing blood-contacting biomaterials. <i>Journal of Artificial Organs</i> , 2018, 21, 317-324.	0.9	15
18	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. <i>Biomaterials Science</i> , 2021, 9, 1034-1043.	5.4	14

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19	Verification of the Inactivation of Melanocytic Nevus in vitro Using a Newly Developed Portable High Hydrostatic Pressure Device. <i>Cells Tissues Organs</i> , 2016, 201, 170-179.	2.3	13
20	Arg-Glu-Asp-Val Peptide Immobilized on an Acellular Graft Surface Inhibits Platelet Adhesion and Fibrin Clot Deposition in a Peptide Density-Dependent Manner. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2050-2061.	5.2	13
21	Phospholipid polymer-based antibody immobilization for cell rolling surfaces in stem cell purification system. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1590-1601.	3.5	12
22	The superiority of the autografts inactivated by high hydrostatic pressure to decellularized allografts in a porcine model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2653-2661.	3.4	12
23	The Alteration of the Epidermal Basement Membrane Complex of Human Nevus Tissue and Keratinocyte Attachment after High Hydrostatic Pressurization. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	11
24	Modification of decellularized vascular xenografts with 8â€m polyethylene glycol suppresses macrophage infiltration but maintains graft degradability. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 2005-2014.	4.0	11
25	Small-Diameter Synthetic Vascular Graft Immobilized with the REDV Peptide Reduces Early-Stage Fibrin Clot Deposition and Results in Graft Patency in Rats. <i>Biomacromolecules</i> , 2020, 21, 3092-3101.	5.4	10
26	Impact of REDV peptide density and its linker structure on the capture, movement, and adhesion of flowing endothelial progenitor cells in microfluidic devices. <i>Materials Science and Engineering C</i> , 2021, 129, 112381.	7.3	10
27	Melanin pigments in the melanocytic nevus regress spontaneously after inactivation by high hydrostatic pressure. <i>PLoS ONE</i> , 2017, 12, e0186958.	2.5	10
28	An evaluation of the engraftment and the blood flow of porcine skin autografts inactivated by high hydrostatic pressure. , 2017, 105, 1091-1101.		8
29	Exploration of the Pressurization Condition for Killing Human Skin Cells and Skin Tumor Cells by High Hydrostatic Pressure. <i>BioMed Research International</i> , 2020, 2020, 1-17.	1.9	7
30	Cellular attachment behavior on biodegradable polymer surface immobilizing endothelial cell-specific peptide. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1475-1488.	3.5	6
31	Identification of circulating cells interacted with integrin $\alpha 4 \beta 1$ ligand peptides REDV or HGGVRLY. <i>Peptides</i> , 2021, 136, 170470.	2.4	5
32	<sc>REDV</sc>-modified decellularized microvascular grafts for arterial and venous reconstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 547-558.	4.0	5
33	Superfine Magnetic Resonance Imaging of the Cerebrovasculature Using Self-Assembled Branched Polyethylene Glycolâ€Gd Contrast Agent. <i>Macromolecular Bioscience</i> , 2018, 18, e1700391.	4.1	4
34	Adhesion of Flk1-expressing cells under shear flow in phospholipid polymer-coated immunoaffinity channels. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 045012.	2.6	4
35	Accelerated tissue regeneration in decellularized vascular grafts with a patterned pore structure. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2544-2550.	5.8	4
36	Visualising brain capillaries in magnetic resonance images <i>via</i> supramolecular self-assembly. <i>Chemical Communications</i> , 2020, 56, 11807-11810.	4.1	3

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37	High Hydrostatic Pressure Therapy Annihilates Squamous Cell Carcinoma in a Murine Model. <i>BioMed Research International</i> , 2020, 2020, 1-9.	1.9	3
38	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. <i>Plastic and Reconstructive Surgery</i> , 2021, 148, 71e-76e.	1.4	3
39	Influence of Molecular Mobility on Contrast Efficiency of Branched Polyethylene Glycol Contrast Agent. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-8.	0.8	1
40	Simple and efficient method for consecutive inactivationâ€“cryopreservation of porcine skin grafts. <i>Journal of Artificial Organs</i> , 2020, 23, 147-155.	0.9	1
41	8. Polymeric MR Contrast Agents for Microvascular Imaging. <i>Japanese Journal of Radiological Technology</i> , 2022, 78, 520-525.	0.1	0