

# Masahiro Yamada

## List of Publications by Year in descending order

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56  
papers

2,932  
citations

185998

28  
h-index

161609

54  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2632  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of ultraviolet functionalization of titanium on integration with bone. <i>Biomaterials</i> , 2009, 30, 1015-1025.	5.7	444
2	The effect of UV-photofunctionalization on the time-related bioactivity of titanium and chromium-cobalt alloys. <i>Biomaterials</i> , 2009, 30, 4268-4276.	5.7	187
3	Enhancement of osteoblast adhesion to UV-photofunctionalized titanium via an electrostatic mechanism. <i>Biomaterials</i> , 2010, 31, 2717-2727.	5.7	171
4	Ultraviolet light-mediated photofunctionalization of titanium to promote human mesenchymal stem cell migration, attachment, proliferation and differentiation. <i>Acta Biomaterialia</i> , 2009, 5, 3247-3257.	4.1	160
5	Current bone substitutes for implant dentistry. <i>Journal of Prosthodontic Research</i> , 2018, 62, 152-161.	1.1	146
6	Enhancement of bone-titanium integration profile with UV-photofunctionalized titanium in a gap healing model. <i>Biomaterials</i> , 2010, 31, 1546-1557.	5.7	125
7	The enhanced characteristics of osteoblast adhesion to photofunctionalized nanoscale TiO <sub>2</sub> layers on biomaterials surfaces. <i>Biomaterials</i> , 2010, 31, 3827-3839.	5.7	102
8	Success Rate, Healing Time, and Implant Stability of Photofunctionalized Dental Implants. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, 1261-1271.	0.6	100
9	Enhanced bone-integration capability of alkali- and heat-treated nanopolymorphic titanium in micro-to-nanoscale hierarchy. <i>Biomaterials</i> , 2011, 32, 7297-7308.	5.7	85
10	Synergistic effects of UV photofunctionalization and micro-nano hybrid topography on the biological properties of titanium. <i>Biomaterials</i> , 2011, 32, 4358-4368.	5.7	83
11	N-acetyl cysteine (NAC)-mediated detoxification and functionalization of poly(methyl methacrylate) bone cement. <i>Biomaterials</i> , 2009, 30, 3378-3389.	5.7	76
12	Histological and histomorphometrical comparative study of the degradation and osteoconductive characteristics of $\beta$ - and $\beta$ -tricalcium phosphate in block grafts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 82B, 139-148.	1.6	72
13	Novel antioxidant capability of titanium induced by UV light treatment. <i>Biomaterials</i> , 2016, 108, 177-186.	5.7	69
14	Effects of pico-to-nanometer-thin TiO <sub>2</sub> coating on the biological properties of microroughened titanium. <i>Biomaterials</i> , 2011, 32, 8374-8384.	5.7	66
15	N-acetyl cysteine as an osteogenesis-enhancing molecule for bone regeneration. <i>Biomaterials</i> , 2013, 34, 6147-6156.	5.7	66
16	Preconditioning of bone marrow-derived mesenchymal stem cells with N-acetyl-L-cysteine enhances bone regeneration via reinforced resistance to oxidative stress. <i>Biomaterials</i> , 2018, 185, 25-38.	5.7	61
17	Ultraviolet light treatment for the restoration of age-related degradation of titanium bioactivity. <i>International Journal of Oral and Maxillofacial Implants</i> , 2010, 25, 49-62.	0.6	59
18	Selective cell affinity of biomimetic micro-nano-hybrid structured TiO <sub>2</sub> overcomes the biological dilemma of osteoblasts. <i>Dental Materials</i> , 2010, 26, 275-287.	1.6	54

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19	Bone integration capability of alkali- and heat-treated nanobimorphic Ti-15Mo-5Zr-3Al. <i>Acta Biomaterialia</i> , 2011, 7, 4267-4277.	4.1	49
20	N-Acetyl cysteine prevents suppression of oral fibroblast function on poly(methylmethacrylate) resin. <i>Acta Biomaterialia</i> , 2009, 5, 391-398.	4.1	45
21	Biodegradation Property of Beta-Tricalcium Phosphate-Collagen Composite in Accordance with Bone Formation: A Comparative Study with Bio-Oss Collagen® in a Rat Critical-Size Defect Model. <i>Clinical Implant Dentistry and Related Research</i> , 2014, 16, 202-211.	1.6	43
22	A Novel Combined Surgical Approach to Vertical Alveolar Ridge Augmentation with Titanium Mesh, Resorbable Membrane, and rhPDGF-BB: A Retrospective Consecutive Case Series. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2013, 33, 437-445.	0.4	40
23	Effect of N-acetylcysteine on Rat Dental Pulp Cells Cultured on Mineral Trioxide Aggregate. <i>Journal of Endodontics</i> , 2011, 37, 637-641.	1.4	39
24	Effect of ultraviolet photoactivation of titanium on osseointegration in a rat model. <i>International Journal of Oral and Maxillofacial Implants</i> , 2010, 25, 287-94.	0.6	39
25	Bone integration capability of nanopolymorphic crystalline hydroxyapatite coated on titanium implants. <i>International Journal of Nanomedicine</i> , 2012, 7, 859.	3.3	37
26	Effect of photofunctionalization on fluoride-treated nanofeatured titanium. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1200-1212.	1.2	36
27	Reduction of biofilm formation on titanium surface with ultraviolet-C pre-irradiation. <i>Journal of Biomaterials Applications</i> , 2014, 29, 161-171.	1.2	33
28	Chemodynamics underlying N-acetyl cysteine-mediated bone cement monomer detoxification. <i>Acta Biomaterialia</i> , 2009, 5, 2963-2973.	4.1	29
29	Periodontal-like gingival connective tissue attachment on titanium surface with nano-ordered spikes and pores created by alkali-heat treatment. <i>Dental Materials</i> , 2015, 31, e116-e130.	1.6	29
30	N-Acetyl cysteine restores viability and function of rat odontoblast-like cells impaired by polymethylmethacrylate dental resin extract. <i>Redox Report</i> , 2009, 14, 13-22.	1.4	27
31	Nonvolatile buffer coating of titanium to prevent its biological aging and for drug delivery. <i>Biomaterials</i> , 2010, 31, 4818-4828.	5.7	27
32	Microtopography of titanium suppresses osteoblastic differentiation but enhances chondroblastic differentiation of rat femoral periosteum-derived cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 380-391.	2.1	26
33	N-acetyl cysteine prevents polymethyl methacrylate bone cement extract-induced cell death and functional suppression of rat primary osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 285-296.	2.1	24
34	Amino acid derivative-mediated detoxification and functionalization of dual cure dental restorative material for dental pulp cell mineralization. <i>Biomaterials</i> , 2010, 31, 7213-7225.	5.7	22
35	Titanium surface with nanospikes tunes macrophage polarization to produce inhibitory factors for osteoclastogenesis through nanotopographic cues. <i>Acta Biomaterialia</i> , 2022, 137, 316-330.	4.1	22
36	UV photofunctionalization promotes nano-biomimetic apatite deposition on titanium. <i>International Journal of Nanomedicine</i> , 2016, 11, 223.	3.3	20

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37	N-acetyl cysteine improves affinity of beta-tricalcium phosphate granules for cultured osteoblast-like cells. <i>Journal of Biomaterials Applications</i> , 2012, 27, 27-36.	1.2	19
38	Improvement in the osteoblastic cellular response to a commercial collagen membrane and demineralized freeze-dried bone by an amino acid derivative: an in vitro study. <i>Clinical Oral Implants Research</i> , 2011, 22, 165-172.	1.9	18
39	A titanium surface with nano-ordered spikes and pores enhances human dermal fibroblastic extracellular matrix production and integration of collagen fibers. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 015010.	1.7	18
40	Nanometer-thin TiO <sub>2</sub> enhances skeletal muscle cell phenotype and behavior. <i>International Journal of Nanomedicine</i> , 2011, 6, 2191.	3.3	17
41	Ultraviolet-C irradiation to titanium implants increases peri-implant bone formation without impeding mineralization in a rabbit femur model. <i>Acta Odontologica Scandinavica</i> , 2015, 73, 302-311.	0.9	16
42	Early-stage osseointegration capability of a submicrofeatured titanium surface created by microroughening and anodic oxidation. <i>Clinical Oral Implants Research</i> , 2013, 24, 991-1001.	1.9	15
43	The inhibition of infection by wound pathogens on scaffold in tissue-forming process using N-acetyl cysteine. <i>Biomaterials</i> , 2011, 32, 8474-8485.	5.7	14
44	Cytoprotective Preconditioning of Osteoblast-Like Cells with N-Acetyl-L-Cysteine for Bone Regeneration in Cell Therapy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5199.	1.8	14
45	Alleviation of commercial collagen sponge- and membrane-induced apoptosis and dysfunction in cultured osteoblasts by an amino acid derivative. <i>International Journal of Oral and Maxillofacial Implants</i> , 2010, 25, 939-46.	0.6	12
46	Specific ultraviolet-C irradiation energy for functionalization of titanium surface to increase osteoblastic cellular attachment. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1419-1429.	1.2	11
47	Retrospective clinical outcome of nanopolymorphic crystalline hydroxyapatite-coated and anodic oxidized titanium implants for 10 years. <i>Journal of Prosthodontic Research</i> , 2015, 59, 62-70.	1.1	11
48	Activation of Osteoblastic Function on Titanium Surface with Titanium-Doped Hydroxyapatite Nanoparticle Coating: An In Vitro Study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2017, 32, 779-791.	0.6	11
49	Novel Mesenchymal Stem Cell Spheroids with Enhanced Stem Cell Characteristics and Bone Regeneration Ability. <i>Stem Cells Translational Medicine</i> , 2022, 11, 434-449.	1.6	10
50	N-acetyl cysteine alleviates inflammatory reaction of oral epithelial cells to poly (methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5Q 222 Td (m	0.9	9
51	Increased affinity of endothelial cells to NiTi using ultraviolet irradiation: An <i>in vitro</i> study. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1034-1038.	2.1	9
52	Titanium Nanosurface with a Biomimetic Physical Microenvironment to Induce Endogenous Regeneration of the Periodontium. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 27703-27719.	4.0	5
53	Titania nanospikes activate macrophage phagocytosis by ligand-independent contact stimulation. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
54	Anti-infective control in human bronchiolar epithelial cells by mucin phenotypic changes following uptake of N-acetyl-L-cysteine. <i>Free Radical Research</i> , 2015, 49, 1449-1458.	1.5	3

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55	Cell Biological Consideration of the Mechanism Underlying Polymethyl Methacrylate (PMMA) Dental Resin Cytotoxicity in Oral Mucosal Cells. Annals of Japan Prosthodontic Society, 2009, 1, 370-377.	0.0	2
56	Anti-oxidant amino acid derivative as a multifunctional molecule for bone regeneration. Annals of Japan Prosthodontic Society, 2013, 5, 411-413.	0.0	0