

Yasunori Ayukawa

List of Publications by Citations

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114
papers

2,366
citations

27
h-index

45
g-index

128
ext. papers

2,772
ext. citations

4
avg, IF

4.73
L-index

#	Paper	IF	Citations
114	Current barrier membranes: titanium mesh and other membranes for guided bone regeneration in dental applications. <i>Journal of Prosthodontic Research</i> , 2013 , 57, 3-14	4.3	284
113	Simvastatin promotes osteogenesis around titanium implants. <i>Clinical Oral Implants Research</i> , 2004 , 15, 346-50	4.8	97
112	Ultrastructural and immunoelectron microscopic studies of the peri-implant epithelium-implant (Ti-6Al-4V) interface of rat maxilla. <i>Journal of Periodontology</i> , 2000 , 71, 961-73	4.6	97
111	Local application of statin promotes bone repair through the suppression of osteoclasts and the enhancement of osteoblasts at bone-healing sites in rats. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2009 , 107, 336-42		91
110	Relationship between the bone density estimated by cone-beam computed tomography and the primary stability of dental implants. <i>Clinical Oral Implants Research</i> , 2012 , 23, 832-6	4.8	88
109	Soft tissue sealing around dental implants based on histological interpretation. <i>Journal of Prosthodontic Research</i> , 2016 , 60, 3-11	4.3	82
108	The contribution of platelet-derived growth factor, transforming growth factor-beta1, and insulin-like growth factor-I in platelet-rich plasma to the proliferation of osteoblast-like cells. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2006 , 101, 724-9		69
107	Difference in penetration of horseradish peroxidase tracer as a foreign substance into the peri-implant or junctional epithelium of rat gingivae. <i>Clinical Oral Implants Research</i> , 2002 , 13, 243-51	4.8	66
106	Light and electron microscopic studies of bone-titanium interface in the tibiae of young and mature rats. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 30, 523-33		59
105	The difference of fibroblast behavior on titanium substrata with different surface characteristics. <i>Odontology / the Society of the Nippon Dental University</i> , 2012 , 100, 199-205	3.6	57
104	Uncontrolled diabetes hinders bone formation around titanium implants in rat tibiae. A light and fluorescence microscopy, and image processing study. <i>Journal of Periodontology</i> , 1998 , 69, 314-20	4.6	53
103	Topical application of statin affects bone healing around implants. <i>Clinical Oral Implants Research</i> , 2008 , 19, 600-5	4.8	52
102	An immunoelectron microscopic localization of noncollagenous bone proteins (osteocalcin and osteopontin) at the bone-titanium interface of rat tibiae. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 111-9		47
101	Mesenchymal stem cells markedly suppress inflammatory bone destruction in rats with adjuvant-induced arthritis. <i>Laboratory Investigation</i> , 2014 , 94, 286-96	5.9	45
100	The effect of a single remote injection of statin-impregnated poly (lactic-co-glycolic acid) microspheres on osteogenesis around titanium implants in rat tibia. <i>Biomaterials</i> , 2010 , 31, 3327-34	15.6	45
99	A study of the regional distribution of bone formed around hydroxyapatite implants in the tibiae of streptozotocin-induced diabetic rats using multiple fluorescent labeling and confocal laser scanning microscopy. <i>Journal of Periodontology</i> , 1997 , 68, 1169-75	4.6	44
98	Histomorphometric analysis of the response of rat tibiae to shape memory alloy (nitinol). <i>Biomaterials</i> , 1997 , 18, 21-5	15.6	44

97	Tunneling nanotube formation is essential for the regulation of osteoclastogenesis. <i>Journal of Cellular Biochemistry</i> , 2013 , 114, 1238-47	4.7	43
96	The effects of diabetes on the interface between hydroxyapatite implants and bone in rat tibia. <i>Journal of Periodontology</i> , 1997 , 68, 180-5	4.6	42
95	Simvastatin enhances bone formation around titanium implants in rat tibiae. <i>Journal of Oral Rehabilitation</i> , 2010 , 37, 123-30	3.4	40
94	The effect of platelet-rich plasma on the cellular response of rat bone marrow cells in vitro. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2005 , 100, 302-7		38
93	Local application of fluvastatin improves peri-implant bone quantity and mechanical properties: a rodent study. <i>Acta Biomaterialia</i> , 2010 , 6, 1610-8	10.8	35
92	Effect of titanium surface calcium and magnesium on adhesive activity of epithelial-like cells and fibroblasts. <i>Biointerphases</i> , 2012 , 7, 27	1.8	33
91	Bacterial adhesion affinities of various implant abutment materials. <i>Clinical Oral Implants Research</i> , 2013 , 24, 1310-5	4.8	32
90	Effects of aging on titanium implants inserted into the tibiae of female rats using light microscopy, SEM, and image processing. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 34, 1-8		31
89	Long-term evaluation of bone-titanium interface in rat tibiae using light microscopy, transmission electron microscopy, and image processing. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 37, 235-42		29
88	Study of bone formation around dense hydroxyapatite implants using light microscopy, image processing and confocal laser scanning microscopy. <i>Biomaterials</i> , 1997 , 18, 317-22	15.6	28
87	Histological Comparison in Rats between Carbonate Apatite Fabricated from Gypsum and Sintered Hydroxyapatite on Bone Remodeling. <i>BioMed Research International</i> , 2015 , 2015, 579541	3	27
86	In vivo and in vitro studies of epithelial cell behavior around titanium implants with machined and rough surfaces. <i>Clinical Implant Dentistry and Related Research</i> , 2014 , 16, 772-81	3.9	27
85	Evaluations of epithelial sealing and peri-implant epithelial down-growth around "step-type" implants. <i>Clinical Oral Implants Research</i> , 2012 , 23, 459-66	4.8	26
84	Tissue-response to calcium-bonded titanium surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 33-9	5.4	26
83	Effects of CaCl ₂ hydrothermal treatment of titanium implant surfaces on early epithelial sealing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 131, 141-7	6	24
82	Platelet-rich plasma suppresses osteoclastogenesis by promoting the secretion of osteoprotegerin. <i>Journal of Periodontal Research</i> , 2009 , 44, 217-24	4.3	24
81	Effect of the difference of bone turnover on peri-titanium implant osteogenesis in ovariectomized rats. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 497-505		24
80	Epithelial sealing effectiveness against titanium or zirconia implants surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1379-1385	5.4	20

79	An Ultrastructural Study of the Bone-titanium Interface Using Pure Titanium-coated Plastic and Pure Titanium Rod Implants.. <i>Acta Histochemica Et Cytochemica</i> , 1996 , 29, 243-254	1.9	19
78	Single intra-articular injection of fluvastatin-PLGA microspheres reduces cartilage degradation in rabbits with experimental osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2465-2475	3.8	18
77	Epithelial and Connective Tissue Sealing around Titanium Implants with Various Typical Surface Finishes. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4976-4984	5.5	17
76	Microcomputed tomographic and histomorphometric analyses of novel titanium mesh membranes for guided bone regeneration: a study in rat calvarial defects. <i>International Journal of Oral and Maxillofacial Implants</i> , 2014 , 29, 826-35	2.8	17
75	Histological comparison of early wound healing following dense hydroxyapatite granule grafting and barrier placement in surgically-created bone defects neighboring implants. <i>Journal of Periodontology</i> , 1997 , 68, 924-32	4.6	17
74	An immunocytochemical study for lysosomal cathepsins B and D related to the intracellular degradation of titanium at the bone-titanium interface. <i>Journal of Periodontology</i> , 1998 , 69, 62-8	4.6	17
73	Number of functional teeth more strongly predicts all-cause mortality than number of present teeth in Japanese older adults. <i>Geriatrics and Gerontology International</i> , 2020 , 20, 607-614	2.9	16
72	The influence of implant-abutment connection on the screw loosening and microleakage. <i>International Journal of Implant Dentistry</i> , 2018 , 4, 11	2.8	16
71	Promotive effect of insulin-like growth factor-1 for epithelial sealing to titanium implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 2896-904	5.4	16
70	Primary Stability of a Hybrid Implant Compared with Tapered and Cylindrical Implants in an Ex Vivo Model. <i>Clinical Implant Dentistry and Related Research</i> , 2015 , 17, 950-6	3.9	16
69	A histologic evaluation of retrieved hydroxyapatite-coated blade-form implants using scanning electron, light, and confocal laser scanning microscopies. <i>Journal of Periodontology</i> , 1996 , 67, 1034-40	4.6	16
68	Relationship between the CT Value and Cortical Bone Thickness at Implant Recipient Sites and Primary Implant Stability with Comparison of Different Implant Types. <i>Clinical Implant Dentistry and Related Research</i> , 2016 , 18, 107-16	3.9	15
67	Relationship between magnitude of immediate loading and peri-implant osteogenesis in dogs. <i>Clinical Oral Implants Research</i> , 2012 , 23, 1290-6	4.8	15
66	Mechanical loading induced osteocyte apoptosis and connexin 43 expression in three-dimensional cell culture and dental implant model. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 815-827	5.4	14
65	Additional Effects of Platelet-Rich Fibrin on Bone Regeneration in Sinus Augmentation With Deproteinized Bovine Bone Mineral: Preliminary Results. <i>Implant Dentistry</i> , 2015 , 24, 669-74	2.4	13
64	Fractures of hydroxyapatite-coated blade implants connected with natural teeth. A histological study using SEM, light microscopy, and an image processing system. <i>Journal of Periodontology</i> , 1996 , 67, 86-92	4.6	13
63	Micro-computed tomography analysis of early stage bone healing using micro-porous titanium mesh for guided bone regeneration: preliminary experiment in a canine model. <i>Odontology/the Society of the Nippon Dental University</i> , 2017 , 105, 408-417	3.6	12
62	Therapeutic interaction of systemically-administered mesenchymal stem cells with peri-implant mucosa. <i>PLoS ONE</i> , 2014 , 9, e90681	3.7	11

61	Vertical bone augmentation with fluvastatin in an injectable delivery system: a rat study. <i>Clinical Oral Implants Research</i> , 2009 , 20, 756-60	4.8	11
60	Fibroblast attachment onto novel titanium mesh membranes for guided bone regeneration. <i>Odontology / the Society of the Nippon Dental University</i> , 2015 , 103, 218-26	3.6	10
59	Acceleration of hard and soft tissue healing in the oral cavity by a single transmucosal injection of fluvastatin-impregnated poly (lactic-co-glycolic acid) microspheres. An in vitro and rodent in vivo study. <i>Biomedical Materials (Bristol)</i> , 2015 , 11, 015001	3.5	10
58	Therapeutic interactions between mesenchymal stem cells for healing medication-related osteonecrosis of the jaw. <i>Stem Cell Research and Therapy</i> , 2016 , 7, 119	8.3	10
57	A peptide that blocks the interaction of NF- κ B p65 subunit with Smad4 enhances BMP2-induced osteogenesis. <i>Journal of Cellular Physiology</i> , 2018 , 233, 7356-7366	7	9
56	Abscess formation around a hydroxyapatite-coated implant placed into the extraction socket with autogenous bone graft. A histological study using light microscopy, image processing, and confocal laser scanning microscopy. <i>Journal of Periodontology</i> , 1997 , 68, 299-305	4.6	9
55	Preventive effect of fluvastatin on the development of medication-related osteonecrosis of the jaw. <i>Scientific Reports</i> , 2020 , 10, 5620	4.9	8
54	The influence of systemically or locally administered mesenchymal stem cells on tissue repair in a rat oral implantation model. <i>International Journal of Implant Dentistry</i> , 2018 , 4, 2	2.8	7
53	Generation and histomorphometric evaluation of a novel fluvastatin-containing poly(lactic-co-glycolic acid) membrane for guided bone regeneration. <i>Odontology / the Society of the Nippon Dental University</i> , 2019 , 107, 37-45	3.6	7
52	Soft Tissue Interface with Various Kinds of Implant Abutment Materials. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	7
51	Effect of titanium or zirconia implant abutments on epithelial attachments after ultrasonic cleaning. <i>Journal of Oral Science</i> , 2020 , 62, 331-334	1.5	6
50	Effect of post-osseointegration loading magnitude on the dynamics of peri-implant bone: a finite element analysis and in vivo study. <i>Journal of Prosthodontic Research</i> , 2019 , 63, 453-459	4.3	6
49	Histologic investigation of hollow implants retrieved for psychological reasons. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 1996 , 82, 379-85		6
48	Carbonate Apatite Containing Statin Enhances Bone Formation in Healing Incisal Extraction Sockets in Rats. <i>Materials</i> , 2018 , 11,	3.5	5
47	The effect of low-magnitude, high-frequency vibration stimuli on the bone healing of rat incisor extraction socket. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 091001	2.1	5
46	The Changes in the Immunocytochemical Localization of Cathepsin L and Type I Collagen in Rat Osteoclasts Treated with E-64.. <i>Acta Histochemica Et Cytochemica</i> , 1995 , 28, 523-531	1.9	5
45	The impact of surface alteration on epithelial tissue attachment after the mechanical cleaning of titanium or zirconia surface. <i>Journal of Oral Rehabilitation</i> , 2020 , 47, 1065-1076	3.4	5
44	Effect of Calcium Chloride Hydrothermal Treatment of Titanium on Protein, Cellular, and Bacterial Adhesion Properties. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	5

43	Effect of Hydrothermal Treatment with Distilled Water on Titanium Alloy for Epithelial Cellular Attachment. <i>Materials</i> , 2019 , 12,	3.5	4
42	Long Term Retention of Gingival Sealing around Titanium Implants with CaCl Hydrothermal Treatment: A Rodent Study. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	4
41	Effects of Different Divalent Cation Hydrothermal Treatments of Titanium Implant Surfaces for Epithelial Tissue Sealing. <i>Materials</i> , 2020 , 13,	3.5	4
40	Tissue Reaction to a Novel Bone Substitute Material Fabricated With Biodegradable Polymer-Calcium Phosphate Nanoparticle Composite. <i>Implant Dentistry</i> , 2016 , 25, 567-74	2.4	4
39	The effective design of zirconia coping on titanium base in dental implant superstructure. <i>Dental Materials Journal</i> , 2018 , 37, 237-243	2.5	4
38	A comparison of the peri-implant bone stress generated by the preload with screw tightening between BondedSand & contactSmodel. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 393-402	2.1	4
37	Failing hollow implants examined by light microscopy and image processing. <i>Journal of Periodontology</i> , 1997 , 68, 293-8	4.6	4
36	Relationship between Maximum Tongue Pressure Value and Age, Occlusal Status, or Body Mass Index among the Community-Dwelling Elderly. <i>Medicina (Lithuania)</i> , 2020 , 56,	3.1	4
35	Novel Application Method for Mesenchymal Stem Cell Therapy Utilizing Its Attractant-Responsive Accumulation Property. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4908	2.6	4
34	Investigation of a novel sterilization method for biofilms formed on titanium surfaces. <i>Dental Materials Journal</i> , 2019 , 38, 654-662	2.5	3
33	Medication-related osteonecrosis of the jaw; what should we do as prosthodontists?. <i>Journal of Prosthodontic Research</i> , 2016 , 60, 229-230	4.3	3
32	Implant treatment followed by living donor lung transplant: a follow-up case report. <i>Journal of Prosthodontic Research</i> , 2014 , 58, 127-31	4.3	3
31	The role of phosphoinositide 3-kinase in adhesion of oral epithelial cells to titanium. <i>Archives of Oral Biology</i> , 2013 , 58, 1696-708	2.8	3
30	Influence of Titanium Surface Topography on Peri-Implant Soft Tissue Integration. <i>Key Engineering Materials</i> , 2012 , 529-530, 559-564	0.4	3
29	Influence of the wettability of different titanium surface topographies on initial cellular behavior. <i>Dental Materials Journal</i> , 2018 , 37, 650-658	2.5	3
28	Effects of aging on titanium implants inserted into the tibiae of female rats using light microscopy, SEM, and image processing 1997 , 34, 1		3
27	Prosthetic aspects in adult osteopetrosis. <i>Journal of Prosthetic Dentistry</i> , 2014 , 112, 736-40	4	2
26	Histometric Study of Bone Formation around Titanium Implants Inserted into the Tibiae of Diabetes-Induced Rats: A Pilot Study.. <i>Nihon Hotetsu Shika Gakkai Zasshi</i> , 1997 , 41, 94-99		2

25	Localization of Integrin Beta-4 Subunit at Soft Tissue-Titanium or Zirconia Interface. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	2
24	A Prospective Comparative Study of Mastication Predominance and Masticatory Performance in Kennedy Class I Patients. <i>Healthcare (Switzerland)</i> , 2021 , 9,	3.4	2
23	Effect of a Single Injection of Benidipine-Impregnated Biodegradable Microcarriers on Bone and Gingival Healing at the Tooth Extraction Socket. <i>Advances in Wound Care</i> , 2019 , 8, 108-117	4.8	2
22	Replacement Process of Carbonate Apatite by Alveolar Bone in a Rat Extraction Socket. <i>Materials</i> , 2021 , 14,	3.5	2
21	Therapeutic effect of fluvastatin on medication-related osteonecrosis of the jaw. <i>Journal of Periodontology</i> , 2021 ,	4.6	2
20	Light and electron microscopic studies of bone-titanium interface in the tibiae of young and mature rats 1996 , 30, 523		2
19	Bone regeneration of tibial defects in rats with enzymatic hydrogelation of gelatin derivative and recombinant human platelet-derived growth factor-BB complex. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013 , 28, 1377-85	2.8	1
18	The Alternation of Peri-Implant Bone Response Exposed to Static Lateral Load. <i>Journal of Biomechanical Science and Engineering</i> , 2009 , 4, 326-335	0.8	1
17	Factors associated with discontinuation and resumption of implant maintenance therapy. <i>Journal of Oral Science</i> , 2020 , 62, 356-359	1.5	1
16	Clinical effectiveness of implant support for distal extension removable partial dentures: functional evaluation using occlusal force measurement and masticatory efficiency. <i>International Journal of Implant Dentistry</i> , 2021 , 7, 101	2.8	1
15	In Vitro Assessment of the Effect of Implant Position on Biomechanical Behaviors of Implant-Supported Removable Partial Dentures in Kennedy Class II Condition. <i>Materials</i> , 2021 , 14,	3.5	1
14	The need for polishing and occlusal adjustment of zirconia prostheses for wear on antagonist teeth. <i>Dental Materials Journal</i> , 2021 , 40, 650-656	2.5	1
13	Influence of osteoporosis and mechanical loading on bone around osseointegrated dental implants: A rodent study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 123, 104771	4.1	1
12	Light and electron microscopic studies of bone-titanium interface in the tibiae of young and mature rats 1996 , 30, 523		1
11	Oral Function Rehabilitation with the Simplified Lauritzen Clinical Remount Technique in a Patient with Bimaxillary Alveolar Exostoses: A Case Report.. <i>Healthcare (Switzerland)</i> , 2022 , 10,	3.4	1
10	Accuracy Assessment of Implant Placement in a Newly Developed Dynamic Navigation System: A Pilot Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6593	2.6	0
9	Masticatory performance and other oral functions in community-dwelling elderly patients without posterior occlusal support by natural teeth. <i>Journal of Oral Science</i> , 2021 , 63, 330-333	1.5	0
8	Effect of carbonate apatite as a bone substitute on oral mucosal healing in a rat extraction socket: in vitro and in vivo analyses using carbonate apatite.. <i>International Journal of Implant Dentistry</i> , 2022 , 8, 11	2.8	0

7	Trend and its international value of the research of Japan Prosthodontic Society and Journal of Prosthodontic Research. <i>Annals of Japan Prosthodontic Society</i> , 2022 , 14, 137-143	○	○
6	Injectable Porous Bioresorbable Composite Containing Fluvastatin for Bone Augmentation. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5422-5429	5.5	
5	Expression of Integrin Alpha-3 and Beta-4 Subunits on the Process of Peri-Implant Epithelium Formation. <i>Key Engineering Materials</i> , 2012 , 529-530, 407-412	0.4	
4	The prosthodontic strategies relating to the rehabilitation of intermediate missing. <i>Annals of Japan Prosthodontic Society</i> , 2022 , 14, 46-51	○	
3	The Influence Of Topographical And Chemical Properties Of Dental Implants On Soft Tissue Integration. <i>Journal of Indian Prosthodontic Society, The</i> , 2018 , 18, S5	1.2	
2	Prosthetic and Surgical Managements of Peri-implantitis at the Flap Reconstruction Site. <i>Prosthodontic Research & Practice</i> , 2008 , 7, 231-233		
1	Preservation and reconstruction of alveolar ridge including connective tissue grafting. <i>Annals of Japan Prosthodontic Society</i> , 2016 , 8, 251-252	○	