Tomoyuki Kawase

List of Publications by Year in descending order

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105 papers 3,412 citations

28 h-index 54 g-index

106 all docs

106 docs citations

106 times ranked 2698 citing authors

#	Article	IF	CITATIONS
1	Platelet-Rich Plasma Contains High Levels of Platelet-Derived Growth Factor and Transforming Growth Factor-Î ² and Modulates the Proliferation of Periodontally Related Cells In Vitro. Journal of Periodontology, 2003, 74, 849-857.	3.4	319
2	Growth factor and pro-inflammatory cytokine contents in platelet-rich plasma (PRP), plasma rich in growth factors (PRGF), advanced platelet-rich fibrin (A-PRF), and concentrated growth factors (CGF). International Journal of Implant Dentistry, 2016, 2, 19.	2.7	263
3	Platelet-Rich Plasma Combined With a Porous Hydroxyapatite Graft for the Treatment of Intrabony Periodontal Defects in Humans: A Comparative Controlled Clinical Study. Journal of Periodontology, 2005, 76, 890-898.	3.4	192
4	Plateletâ€Rich Plasmaâ€Derived Fibrin Clot Formation Stimulates Collagen Synthesis in Periodontal Ligament and Osteoblastic Cells In Vitro. Journal of Periodontology, 2003, 74, 858-864.	3.4	188
5	Enamel matrix derivative (EMDOGAIN $<$ sup $>$ Â $^{\odot}<$ /sup $>$) rapidly stimulates phosphorylation of the MAP kinase family and nuclear accumulation of smad2 in both oral epithelial and fibroblastic human cells. Journal of Periodontal Research, 2001, 36, 367-376.	2.7	121
6	Tissueâ€Engineered Cultured Periosteum Used With Plateletâ€Rich Plasma and Hydroxyapatite in Treating Human Osseous Defects. Journal of Periodontology, 2008, 79, 811-818.	3.4	103
7	A proposed protocol for the standardized preparation of PRF membranes for clinical use. Biologicals, 2012, 40, 323-329.	1.4	100
8	Antiâ€TGFâ€Î² antibody blocks enamel matrix derivativeâ€induced upregulation of p21 ^{WAF1/cip1} and prevents its inhibition of human oral epithelial cell proliferation. Journal of Periodontal Research, 2002, 37, 255-262.	2.7	89
9	Mechanical and degradation properties of advanced platelet-rich fibrin (A-PRF), concentrated growth factors (CGF), and platelet-poor plasma-derived fibrin (PPTF). International Journal of Implant Dentistry, 2017, 3, 17.	2.7	88
10	Cytostatic action of enamel matrix derivative (EMDOGAIN [®]) on human oral squamous cell carcinomaâ€derived SCC25 epithelial cells. Journal of Periodontal Research, 2000, 35, 291-300.	2.7	85
11	Platelet-rich plasma and its derivatives as promising bioactive materials for regenerative medicine: basic principles and concepts underlying recent advances. Odontology / the Society of the Nippon Dental University, 2015, 103, 126-135.	1.9	83
12	Use of platelet-rich fibrin for the treatment of periodontal intrabony defects: a systematic review and meta-analysis. Clinical Oral Investigations, 2021, 25, 2461-2478.	3.0	80
13	The heat-compression technique for the conversion of platelet-rich fibrin preparation to a barrier membrane with a reduced rate of biodegradation., 2015, 103, 825-831.		77
14	A clinical study of alveolar bone tissue engineering with cultured autogenous periosteal cells: Coordinated activation of bone formation and resorption. Bone, 2012, 50, 1123-1129.	2.9	74
15	In Vitro Evidence That the Biological Effects of Platelet-Rich Plasma on Periodontal Ligament Cells Is Not Mediated Solely by Constituent Transforming-Growth Factor-Î ² or Platelet-Derived Growth Factor. Journal of Periodontology, 2005, 76, 760-767.	3.4	72
16	Analysis of intestinal fibrosis in chronic colitis in mice induced by dextran sulfate sodium. Pathology International, 2011, 61, 228-238.	1.3	61
17	Use of platelet-rich fibrin for the treatment of gingival recessions: a systematic review and meta-analysis. Clinical Oral Investigations, 2020, 24, 2543-2557.	3.0	49
18	Characterization of human cultured periosteal sheets expressing bone-forming potential: <i>in vitro</i> and <i>in vivo</i> animal studies. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 218-229.	2.7	47

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19	Direct activation of platelets by addition of CaCl2 leads coagulation of platelet-rich plasma. International Journal of Implant Dentistry, 2018, 4, 23.	2.7	46
20	Human Periosteum-Derived Cells Combined With Superporous Hydroxyapatite Blocks Used as an Osteogenic Bone Substitute for Periodontal Regenerative Therapy: An Animal Implantation Study Using Nude Mice. Journal of Periodontology, 2010, 81, 420-427.	3.4	40
21	In vitro immunological and biological evaluations of the angiogenic potential of platelet-rich fibrin preparations: a standardized comparison with PRP preparations. International Journal of Implant Dentistry, 2015, 1, 31.	2.7	37
22	Bioactivity of freeze-dried platelet-rich plasma in an adsorbed form on a biodegradable polymer material. Platelets, 2012, 23, 594-603.	2.3	35
23	Calcitonin gene-related peptide acts as a mitogen for human Gin-1 gingival fibroblasts by activating the MAP kinase signalling pathway. Journal of Periodontal Research, 1999, 34, 160-168.	2.7	33
24	An improved freeze-dried PRP-coated biodegradable material suitable for connective tissue regenerative therapy. Cryobiology, 2013, 66, 223-232.	0.7	33
25	PLATELET-RICH PLASMA PROVIDES NUCLEUS FOR MINERALIZATION IN CULTURES OF PARTIALLY DIFFERENTIATED PERIODONTAL LIGAMENT CELLS. In Vitro Cellular and Developmental Biology - Animal, 2005, 41, 171.	1.5	32
26	Dual-Labeled Near-Infrared/99mTc Imaging Probes Using PAMAM-Coated Silica Nanoparticles for the Imaging of HER2-Expressing Cancer Cells. International Journal of Molecular Sciences, 2016, 17, 1086.	4.1	32
27	A technical note on contamination from PRF tubes containing silica and silicone. BMC Oral Health, 2021, 21, 135.	2.3	32
28	Treatment of human infrabony periodontal defects by grafting human cultured periosteum sheets combined with platelet-rich plasma and porous hydroxyapatite granules: case series. Journal of the International Academy of Periodontology, 2009, 11, 206-13.	0.7	30
29	Calcitonin gene-related peptide elevates calcium and polarizes membrane potential in MG-63 cells by both cAMP-independent and -dependent mechanisms. American Journal of Physiology - Cell Physiology, 2004, 287, C457-C467.	4.6	29
30	Immature osteoblastic MG63 cells possess two calcitonin gene-related peptide receptor subtypes that respond differently to [Cys(Acm)2,7] calcitonin gene-related peptide and CGRP8–37. American Journal of Physiology - Cell Physiology, 2005, 289, C811-C818.	4.6	29
31	Basic characteristics of plasma rich in growth factors (PRGF): blood cell components and biological effects. Clinical and Experimental Dental Research, 2016, 2, 96-103.	1.9	29
32	Acute cytotoxic effects of silica microparticles used for coating of plastic blood-collection tubes on human periosteal cells. Odontology / the Society of the Nippon Dental University, 2020, 108, 545-552.	1.9	29
33	The primary site of the acrocephalic feature in Apert syndrome is a dwarf cranial base with accelerated chondrocytic differentiation due to aberrant activation of the FGFR2 signaling. Bone, 2011, 48, 847-856.	2.9	28
34	Tissue culture of human alveolar periosteal sheets using a stem-cell culture medium (MesenPRO-RSâ,,¢): In vitro expansion of CD146-positive cells and concomitant upregulation of osteogenic potential in vivo. Stem Cell Research, 2013, 10, 1-19.	0.7	27
35	Striking Differences in Platelet Distribution between Advanced-Platelet-Rich Fibrin and Concentrated Growth Factors: Effects of Silica-Containing Plastic Tubes. Journal of Functional Biomaterials, 2019, 10, 43.	4.4	27
36	Evidence for Contamination of Silica Microparticles in Advanced Platelet-Rich Fibrin Matrices Prepared Using Silica-Coated Plastic Tubes. Biomedicines, 2019, 7, 45.	3.2	26

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37	Immature human osteoblastic MG63 cells predominantly express a subtype 1-like CGRP receptor that inactivates extracellular signal response kinase by a cAMP-dependent mechanism. European Journal of Pharmacology, 2003, 470, 125-137.	3.5	25
38	An updated proposal for terminology and classification of platelet-rich fibrin. Regenerative Therapy, 2017, 7, 80-81.	3.0	24
39	Distribution of platelets, transforming growth factor $\hat{\mathbf{e}}\hat{\mathbf{e}}^21$, platelet $\hat{\mathbf{e}}$ derived growth factor $\hat{\mathbf{e}}$ endothelial growth factor and matrix metalloprotease $\hat{\mathbf{e}}$ in advanced platelet $\hat{\mathbf{e}}$ ich fibrin and concentrated growth factor matrices. Journal of Investigative and Clinical Dentistry, 2019, 10, e12458.	1.8	24
40	Improved adhesion of human cultured periosteal sheets to a porous poly(<scp>L</scp> â€lactic acid) membrane scaffold without the aid of exogenous adhesion biomolecules. Journal of Biomedical Materials Research - Part A, 2011, 98A, 100-113.	4.0	23
41	Biomechanical evaluation by AFM of cultured human cell-multilayered periosteal sheets. Micron, 2013, 48, 1-10.	2.2	23
42	An Evaluation of the Accuracy of the Subtraction Method Used for Determining Platelet Counts in Advanced Platelet-Rich Fibrin and Concentrated Growth Factor Preparations. Dentistry Journal, 2017, 5, 7.	2.3	23
43	Microporous membranes of PLLA/PCL blends for periosteal tissue scaffold. Materials Letters, 2013, 95, 103-106.	2.6	22
44	Platelet Counts in Insoluble Platelet-Rich Fibrin Clots: A Direct Method for Accurate Determination. Frontiers in Bioengineering and Biotechnology, 2018, 6, 4.	4.1	22
45	Osteogenic activity of human periosteal sheets cultured on salmon collagen-coated ePTFE meshes. Journal of Materials Science: Materials in Medicine, 2010, 21, 731-739.	3.6	21
46	Comprehensive Quality Control of the Regenerative Therapy Using Platelet Concentrates: The Current Situation and Prospects in Japan. BioMed Research International, 2018, 2018, 1-10.	1.9	21
47	The Platelet Concentrates Therapy: From the Biased Past to the Anticipated Future. Bioengineering, 2020, 7, 82.	3.5	21
48	Calcitonin Gene-Related Peptide Stimulates Potassium Efflux through Adenosine Triphosphate-Sensitive Potassium Channels and Produces Membrane Hyperpolarization in Osteoblastic UMR106 Cells1. Endocrinology, 1998, 139, 3492-3502.	2.8	20
49	Collagen-Coated Poly(l-lactide-co-É>-caprolactone) Film: A Promising Scaffold for Cultured Periosteal Sheets. Journal of Periodontology, 2010, 81, 1653-1662.	3.4	20
50	Extracellular ATP and ATPÎ ³ S Suppress the Proliferation of Human Periodontal Ligament Cells by Different Mechanisms. Journal of Periodontology, 2007, 78, 748-756.	3.4	18
51	An atmosphericâ€pressure plasmaâ€treated titanium surface potentially supports initial cell adhesion, growth, and differentiation of cultured human prenatalâ€derived osteoblastic cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1289-1296.	3.4	18
52	HER2-Targeted Multifunctional Silica Nanoparticles Specifically Enhance the Radiosensitivity of HER2-Overexpressing Breast Cancer Cells. International Journal of Molecular Sciences, 2018, 19, 908.	4.1	18
53	Quantitative Near-Infrared Imaging of Platelets in Platelet-Rich Fibrin (PRF) Matrices: Comparative Analysis of Bio-PRF, Leukocyte-Rich PRF, Advanced-PRF and Concentrated Growth Factors. International Journal of Molecular Sciences, 2020, 21, 4426.	4.1	18
54	Tissue-Engineered Cultured Periosteum Sheet Application to Treat Infrabony Defects: Case Series and 5-Year Results. International Journal of Periodontics and Restorative Dentistry, 2013, 33, 281-287.	1.0	16

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55	Platelet-rich fibrin prepared from stored whole-blood samples. International Journal of Implant Dentistry, 2017, 3, 6.	2.7	16
56	NaF INDUCES EARLY DIFFERENTIATION OF MURINE BONE MARROW CELLS ALONG THE GRANULOCYTIC PATHWAY BUT NOT THE MONOCYTIC OR PREOSTEOCLASTIC PATHWAY IN VITRO. In Vitro Cellular and Developmental Biology - Animal, 2003, 39, 243.	1.5	14
57	An onâ€site preparable, novel boneâ€grafting complex consisting of human plateletâ€rich fibrin and porous particles made of a recombinant collagenâ€like protein. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1420-1430.	3.4	14
58	Characteristics of NaF-induced differentiation of HL-60 cells. Journal of Bone and Mineral Research, 1996, 11, 1676-1687.	2.8	13
59	Evaluation by Bone Scintigraphy of Osteogenic Activity of Commercial Bioceramics (Porous β-TCP and) Tj ETQq1	1 <u>0.7</u> 8431 2.4	.4 ₁ ggBT /Ove
60	Nondestructive Microstructural Analysis of Porous Bioceramics by Microfocus X-ray Computed Tomography (νCT): AÂProposedÂProtocol for Standardized Evaluation of Porosity andÂInterconnectivity Between Macro-pores. Journal of Nondestructive Evaluation, 2011, 30, 71-80.	2.4	12
61	Spectrophotometric determination of platelet counts in platelet-rich plasma. International Journal of Implant Dentistry, 2018, 4, 29.	2.7	12
62	A Comparative Study of the Effects of Anticoagulants on Pure Platelet-Rich Plasma Quality and Potency. Biomedicines, 2020, 8, 42.	3.2	12
63	Synergistic effects of the combined use of humanâ€cultured periosteal sheets and plateletâ€rich fibrin on bone regeneration: An animal study. Clinical and Experimental Dental Research, 2017, 3, 134-141.	1.9	11
64	Quality Assessment of Platelet-Rich Fibrin-Like Matrix Prepared from Whole Blood Samples after Extended Storage. Biomedicines, 2017, 5, 57.	3.2	11
65	Platelet adhesion on commercially pure titanium plates in vitro I: effects of plasma components and involvement of the von Willebrand factor and fibronectin. International Journal of Implant Dentistry, 2019, 5, 5.	2.7	11
66	Manual cryopreservation of human alveolar periosteal tissue segments: Effects of pre-culture on recovery rate. Cryobiology, 2011, 62, 202-209.	0.7	10
67	Highâ€Resolution Threeâ€Dimensional Computed Tomography Analysis of the Clinical Efficacy of Cultured Autogenous Periosteal Cells in Sinus Lift Bone Grafting. Clinical Implant Dentistry and Related Research, 2016, 18, 707-716.	3.7	10
68	Spectrophotometric Determination of the Aggregation Activity of Platelets in Platelet-Rich Plasma for Better Quality Control. Dentistry Journal, 2019, 7, 61.	2.3	10
69	Platelet-Rich Fibrin Extract: A Promising Fetal Bovine Serum Alternative in Explant Cultures of Human Periosteal Sheets for Regenerative Therapy. International Journal of Molecular Sciences, 2019, 20, 1053.	4.1	10
70	Concentrated Growth Factor Matrices Prepared Using Silica-Coated Plastic Tubes Are Distinguishable From Those Prepared Using Glass Tubes in Platelet Distribution: Application of a Novel Near-Infrared Imaging-Based, Quantitative Technique. Frontiers in Bioengineering and Biotechnology, 2020, 8, 600.	4.1	10
71	Proposal for point-of-care testing of platelet-rich plasma quality. International Journal of Growth Factors and Stem Cells in Dentistry, 2019, 2, 13.	0.6	10
72	Granulocyte Colony-stimulating Factor Synergistically Augments 1,25-Dihydroxyvitamin D3-Induced Monocytic Differentiation in Murine Bone Marrow Cell Cultures. Hormone and Metabolic Research, 2004, 36, 445-452.	1.5	9

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73	An osteogenic grafting complex combining human periosteal sheets with a porous poly(l-lactic acid) membrane scaffold: Biocompatibility, biodegradability, and cell fate in vivo. Journal of Bioactive and Compatible Polymers, 2012, 27, 107-121.	2.1	9
74	Application of stem-cell media to explant culture of human periosteum: An optimal approach for preparing osteogenic cell material. Journal of Tissue Engineering, 2013, 4, 204173141350964.	5.5	9
75	X-Ray-Induced Damage to the Submandibular Salivary Glands in Mice: An Analysis of Strain-Specific Responses. BioResearch Open Access, 2015, 4, 307-318.	2.6	9
76	Fluorescent Cytochemical Detection of Polyphosphates Associated with Human Platelets. International Journal of Molecular Sciences, 2021, 22, 1040.	4.1	9
77	Effects of Leukocyte-Platelet-Rich Fibrin (L–PRF) on Pain, Soft Tissue Healing, Growth Factors, and Cytokines after Third Molar Extraction: A Randomized, Split-Mouth, Double-Blinded Clinical Trial. Applied Sciences (Switzerland), 2021, 11, 1666.	2.5	9
78	Fluorometric Quantification of Human Platelet Polyphosphate Using 4′,6-Diamidine-2-phenylindole Dihydrochloride: Applications in the Japanese Population. International Journal of Molecular Sciences, 2021, 22, 7257.	4.1	9
79	Establishment of murine macrophage-like mutant and hybrid cell lines: Comparative analysis of the differentiation induced by $1\hat{1}\pm,25$ -dihydroxyvitamin D3 and recombinant murine interferon- $\hat{1}^3$. Cellular Immunology, 1991, 132, 350-365.	3.0	8
80	Possible regulation of epidermal growth factor-receptor tyrosine autophosphorylation by calcium and G proteins in chemically permeabilized rat UMR106 cells. Archives of Oral Biology, 1999, 44, 157-171.	1.8	8
81	In-vivo near-infrared optical imaging of growing osteosarcoma cell lesions xenografted in mice: dual-channel quantitative evaluation of volume and mineralization. Acta Radiologica, 2011, 52, 978-988.	1.1	8
82	Distribution and quantification of activated platelets in platelet-rich fibrin matrices. Platelets, 2020, , 1 -6.	2.3	8
83	Real-time quantitative polymerase chain reaction and flow cytometric analyses of cell adhesion molecules expressed in human cell–multilayered periosteal sheets in vitro. Cytotherapy, 2014, 16, 653-661.	0.7	7
84	Quantitative evaluation of morphological changes in activated platelets in vitro using digital holographic microscopy. Micron, 2018, 113, 1-9.	2.2	7
85	Quantitative singleâ€cell motility analysis of plateletâ€rich plasmaâ€treated endothelial cells in vitro. Cytoskeleton, 2015, 72, 246-255.	2.0	6
86	Evaluating the Safety of Somatic Periosteal Cells by Flow-Cytometric Analysis Monitoring the History of DNA Damage. Biopreservation and Biobanking, 2016, 14, 129-137.	1.0	6
87	Imaging of Metastatic Cancer Cells in Sentinel Lymph Nodes using Affibody Probes and Possibility of a Theranostic Approach. International Journal of Molecular Sciences, 2019, 20, 427.	4.1	6
88	Platelet-rich plasma and its derived platelet concentrates: what dentists involved in cell-based regenerative therapy should know. Journal of Japanese Society of Periodontology, 2017, 59, 68-76.	0.1	6
89	Non-invasive, quantitative assessment of the morphology of \hat{I}^3 -irradiated human mesenchymal stem cells and periosteal cells using digital holographic microscopy. International Journal of Radiation Biology, 2016, 92, 796-805.	1.8	5
90	Platelet Adhesion on Commercially Pure Titanium Plates in Vitro II. Immunofluorescence Visualization of PDGF-B, TGFÎ ² 1, and PPARÎ ³ Released from Activated Adherent Platelets. Dentistry Journal, 2019, 7, 109.	2.3	5

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91	A Short-Term Preservation of Human Cultured Periosteal Sheets, Osteogenic Grafting Materials, Using a Commercial Preservation Solution Containing Epigallocatechin-3-gallate (Theliokeep®) under Hypothermic Conditions. Biopreservation and Biobanking, 2012, 10, 245-252.	1.0	4
92	X-ray and ultraviolet C irradiation–induced γ-H2AX and p53 formation in normal human periosteal cells in vitro: markers for quality control in cell therapy. Cytotherapy, 2015, 17, 112-123.	0.7	4
93	The Cell-Multilayered Periosteal Sheet $\hat{a} \in \H$ A Promising Osteogenic and Osteoinductive Grafting Material. , 0, , .		4
94	Effects of SARS‑CoV‑2 mRNA vaccines on platelet polyphosphate levels and inflammation: A pilot study. Biomedical Reports, 2022, 16, 21.	2.0	4
95	A Strategic and Worldwide Cooperative Challenge Required for the Next Generation of Platelet Concentrates. International Journal of Molecular Sciences, 2022, 23, 3437.	4.1	4
96	A Hepatocyte Growth Factor (HGF)/Receptor Autocrine Loop Regulates Constitutive Self-Renewal of Human Periodontal Ligament Cells but Reduces Sensitivity to Exogenous HGF. Journal of Periodontology, 2006, 77, 1723-1730.	3.4	2
97	Platelet adhesion on commercially pure titanium plates in vitro III: effects of calcium phosphate-blasting on titanium plate biocompatibility. International Journal of Implant Dentistry, 2020, 6, 74.	2.7	2
98	Osteoclastogenic Potential of Tissue-Engineered Periosteal Sheet: Effects of Culture Media on the Ability to Recruit Osteoclast Precursors. International Journal of Molecular Sciences, 2021, 22, 2169.	4.1	1
99	Translational researches in the periodontal regenerative therapy :From bioactive factors to cytotherapy. Journal of Japanese Society of Periodontology, 2010, 52, 3-13.	0.1	1
100	Utilità dei derivati del sangue di seconda generazione nella terapia rigenerativa delle ferite complesse delle estremitÃ. , 2020, 44, .	0.1	1
101	ã€Original Contribution】 Preparation of a Poly(L–Lactic Acid) Membrane Scaffold with Open Finger–Like Pores Prepared by a Nonsolvent–Induced Phase Separation Method with the Aid of a Surfactant. Membrane, 2016, 41, 304-310.	0.0	0
102	Quantificazione delle piastrine e dei leucociti nei concentrati piastrinici solidi del sangue per uso chirurgico: studio di una tecnica sperimentale. Chirurgia (Turin), 2021, 34, .	0.1	0
103	Development and Clinical Application of PRF Membranes to Enhance Periodontal Regenerative Therapy. Membrane, 2015, 40, 118-123.	0.0	0
104	Non-destructive, spectrophotometric analysis of the thickness of the cell-multilayered periosteal sheet. International Journal of Implant Dentistry, 2022, 8, 21.	2.7	0
105	Responses of promyelocytic leukemia HL60 cells as an inflammatory cell lineage model to silica microparticles used to coat blood collection tubes. International Journal of Implant Dentistry, 2022, 8, 24.	2.7	0