

# A Jäger

## List of Publications by Year in descending order

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73  
papers

2,413  
citations

186265

28  
h-index

223800

46  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the centre of resistance in an upper human canine and idealized tooth model. <i>European Journal of Orthodontics</i> , 1999, 21, 633-648.	2.4	116
2	LPS from <i>P. gingivalis</i> and Hypoxia Increases Oxidative Stress in Periodontal Ligament Fibroblasts and Contributes to Periodontitis. <i>Mediators of Inflammation</i> , 2014, 2014, 1-13.	3.0	111
3	Simulation of orthodontic tooth movements. <i>Journal of Orofacial Orthopedics</i> , 1999, 60, 136-151.	1.3	100
4	Hypoxia and <i>P. gingivalis</i> Synergistically Induce HIF-1 and NF- $\kappa$ B Activation in PDL Cells and Periodontal Diseases. <i>Mediators of Inflammation</i> , 2015, 2015, 1-12.	3.0	90
5	Immunohistochemical Localization of Receptor Activator of Nuclear Factor KappaB (RANK) and its Ligand (RANKL) in Human Deciduous Teeth. <i>Calcified Tissue International</i> , 2002, 71, 45-52.	3.1	89
6	Experimental and numerical determination of initial tooth mobility and material properties of the periodontal ligament in rat molar specimens. <i>European Journal of Orthodontics</i> , 2003, 25, 569-578.	2.4	87
7	Soluble cytokine receptor treatment in experimental orthodontic tooth movement in the rat. <i>European Journal of Orthodontics</i> , 2005, 27, 1-11.	2.4	87
8	Torque expression of self-ligating brackets compared with conventional metallic, ceramic, and plastic brackets. <i>European Journal of Orthodontics</i> , 2008, 30, 233-238.	2.4	83
9	Biomechanical finite-element investigation of the position of the centre of resistance of the upper incisors. <i>European Journal of Orthodontics</i> , 2007, 29, 219-224.	2.4	75
10	Numerical simulation of the biomechanical behaviour of multi-rooted teeth. <i>European Journal of Orthodontics</i> , 2005, 27, 333-339.	2.4	74
11	Anwendung von Bone-Remodeling-Theorien zur Simulation orthodontischer Zahnbewegungen. <i>Journal of Orofacial Orthopedics</i> , 2000, 61, 266.	1.3	73
12	Early Responses of Periodontal Ligament Cells to Mechanical Stimulus <i>in vivo</i> . <i>Journal of Dental Research</i> , 2005, 84, 902-906.	5.2	69
13	Plaque accumulations caused by interdental stripping. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1988, 94, 416-420.	1.7	63
14	Corrosion and permanent fracture resistance of coated and conventional orthodontic wires. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 141-147.	3.6	58
15	Human $\beta$ -defensins differently affect proliferation, differentiation, and mineralization of osteoblast-like MG63 cells. <i>Journal of Cellular Physiology</i> , 2012, 227, 994-1003.	4.1	55
16	Clinical effects of pre-adjusted edgewise orthodontic brackets: a systematic review and meta-analysis. <i>European Journal of Orthodontics</i> , 2014, 36, 350-363.	2.4	55
17	Nickel ion release from orthodontic NiTi wires under simulation of realistic in-situ conditions. <i>Journal of Materials Science</i> , 2005, 40, 3659-3667.	3.7	45
18	Construction and testing of a computer-based intraoral laser scanner for determining tooth positions. <i>Medical Engineering and Physics</i> , 2000, 22, 625-635.	1.7	44

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19	Cellular and extracellular factors in early root resorption repair in the rat. <i>European Journal of Orthodontics</i> , 2008, 30, 336-345.	2.4	43
20	PTH(1-34) Affects Osteoprotegerin Production in Human PDL Cells in vitro. <i>Journal of Dental Research</i> , 2005, 84, 634-638.	5.2	40
21	Human periodontal ligament cells facilitate leukocyte recruitment and are influenced in their immunomodulatory function by Th17 cytokine release. <i>Cellular Immunology</i> , 2012, 272, 137-143.	3.0	36
22	Demonstration of cells of the mononuclear phagocyte lineage in the periodontium following experimental tooth movement in the rat. <i>Histochemistry</i> , 1993, 100, 161-166.	1.9	34
23	Enamel Matrix Derivative Promotes Human Periodontal Ligament Cell Differentiation and Osteoprotegerin Production in vitro. <i>Journal of Dental Research</i> , 2007, 86, 980-985.	5.2	32
24	Fatigue failure of as-received and retrieved NiTi orthodontic archwires. <i>Dental Materials</i> , 2008, 24, 1095-1101.	3.5	32
25	Biomechanical time dependency of the periodontal ligament: a combined experimental and numerical approach. <i>European Journal of Orthodontics</i> , 2013, 35, 811-818.	2.4	30
26	A systematic review and meta-analysis of experimental clinical evidence on initial aligning archwires and archwire sequences. <i>Orthodontics and Craniofacial Research</i> , 2014, 17, 197-215.	2.8	30
27	Interactions of regenerative, inflammatory and biomechanical signals on bone morphogenetic protein-2 in periodontal ligament cells. <i>Journal of Periodontal Research</i> , 2011, 46, 374-381.	2.7	29
28	Role of Cathepsin S in Periodontal Inflammation and Infection. <i>Mediators of Inflammation</i> , 2017, 2017, 1-10.	3.0	29
29	Anabolic effect of intermittent PTH(1-34) on the local microenvironment during the late phase of periodontal repair in a rat model of tooth root resorption. <i>Clinical Oral Investigations</i> , 2010, 14, 89-98.	3.0	27
30	Potential role of high mobility group box protein 1 and intermittent PTH (1-34) in periodontal tissue repair following orthodontic tooth movement in rats. <i>Clinical Oral Investigations</i> , 2013, 17, 989-997.	3.0	27
31	Reduced Orthodontic Tooth Movement in <i>Enpp1</i> Mutant Mice with Hypercementosis. <i>Journal of Dental Research</i> , 2018, 97, 937-945.	5.2	27
32	Potential impact of lingual retainers on oral health: comparison between conventional twistflex retainers and CAD/CAM fabricated nitinol retainers. <i>Journal of Orofacial Orthopedics</i> , 2019, 80, 88-96.	1.3	26
33	Parathyroid hormone(1-34) mediates proliferative and apoptotic signaling in human periodontal ligament cells in vitro via protein kinase C-dependent and protein kinase A-dependent pathways. <i>Cell and Tissue Research</i> , 2006, 325, 469-479.	2.9	25
34	Reliability of growth prediction with hand-wrist radiographs. <i>European Journal of Orthodontics</i> , 2009, 31, 438-442.	2.4	25
35	Post-treatment changes in permanent retention Å. <i>Journal of Orofacial Orthopedics</i> , 2016, 77, 446-453.	1.3	25
36	Aging affects the phenotypic characteristics of human periodontal ligament cells and the cellular response to hormonal stimulation in vitro. <i>Journal of Periodontal Research</i> , 2010, 45, 764-771.	2.7	24

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37	Regulation of high mobility group box protein 1 expression following mechanical loading by orthodontic forces in vitro and in vivo. <i>European Journal of Orthodontics</i> , 2014, 36, 624-631.	2.4	23
38	Quantitative determination of alveolar bone density using digital image analysis of microradiographs. <i>Anatomischer Anzeiger</i> , 1990, 170, 171-9.	0.1	21
39	In vivo determination of tooth mobility after fixed orthodontic appliance therapy with a novel intraoral measurement device. <i>Clinical Oral Investigations</i> , 2017, 21, 1283-1289.	3.0	20
40	Parathyroid hormone modifies human periodontal ligament cell proliferation and survival in vitro. <i>Journal of Periodontal Research</i> , 2006, 41, 519-526.	2.7	19
41	Regulation of macrophage migration and activity by high-mobility group box $\beta$ 1 protein released from periodontal ligament cells during orthodontically induced periodontal repair: an in vitro and in vivo experimental study. <i>Journal of Orofacial Orthopedics</i> , 2013, 74, 420-434.	1.3	19
42	Applications of Surface-Matching Algorithms for Determination of Orthodontic Tooth Movements. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2003, 6, 353-359.	1.6	18
43	Maturation-state dependent response of human periodontal ligament cells to an intermittent parathyroid hormone exposure in vitro. <i>Journal of Periodontal Research</i> , 2006, 41, 62-72.	2.7	18
44	Damage-regulated autophagy modulator 1 in oral inflammation and infection. <i>Clinical Oral Investigations</i> , 2018, 22, 2933-2941.	3.0	18
45	The time-dependent biomechanical behaviour of the periodontal ligament—an in vitro experimental study in minipig mandibular two-rooted premolars. <i>European Journal of Orthodontics</i> , 2014, 36, 9-15.	2.4	17
46	Localization of Cathepsin D in Human Odontoclasts. A Light and Electron Microscopical Immunocytochemical Study. <i>Connective Tissue Research</i> , 2000, 41, 185-194.	2.3	16
47	Immunohistochemical Localization of Components of the Insulin-Like Growth Factor-System in Human Deciduous Teeth. <i>Connective Tissue Research</i> , 2001, 42, 291-302.	2.3	16
48	Numerical simulation and biomechanical analysis of an orthodontically treated periodontally damaged dentition. <i>Journal of Orofacial Orthopedics</i> , 2013, 74, 480-493.	1.3	16
49	Proliferation and differentiation of periodontal ligament cells following short-term tooth movement in the rat using different regimens of loading. <i>European Journal of Orthodontics</i> , 2009, 31, 565-571.	2.4	14
50	Numerical and clinical study of the biomechanical behaviour of teeth under orthodontic loading using a headgear appliance. <i>Medical Engineering and Physics</i> , 2009, 31, 539-546.	1.7	14
51	Intermittent administration of PTH(1-34) regulates the osteoblastic differentiation of human periodontal ligament cells via protein kinase C- and protein kinase A-dependent pathways in vitro. <i>Journal of Periodontal Research</i> , 2011, 46, 318-326.	2.7	13
52	LOCALIZATION OF IL-1 $\beta$ , IL-1 RI, TNF, TNF-RI AND TNF-RII DURING PHYSIOLOGICAL DRIFT OF RAT MOLAR TEETH—AN IMMUNOHISTOCHEMICAL AND IN SITU HYBRIDIZATION STUDY. <i>Cytokine</i> , 2002, 20, 7-16.	3.2	12
53	In vivo differentiation of human periodontal ligament cells leads to formation of dental hard tissue. <i>Journal of Orofacial Orthopedics</i> , 2013, 74, 494-505.	1.3	12
54	Bone substitute material composition and morphology differentially modulate calcium and phosphate release through osteoclast-like cells. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2014, 43, 514-521.	1.5	12

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55	Autoregulation of insulin-like growth factor 2 and insulin-like growth factor-binding protein 6 in periodontal ligament cells in vitro. <i>Annals of Anatomy</i> , 2013, 195, 527-532.	1.9	11
56	Regulation of the autophagy-marker Sequestosome1 in periodontal cells and tissues by biomechanical loading. <i>Journal of Orofacial Orthopedics</i> , 2020, 81, 10-21.	1.3	11
57	Regulation of p53 under hypoxic and inflammatory conditions in periodontium. <i>Clinical Oral Investigations</i> , 2016, 20, 1781-1789.	3.0	10
58	Digital image processing techniques for cephalometric analysis. <i>Computers in Biology and Medicine</i> , 1991, 21, 23-33.	7.0	9
59	Osteoimmunological mechanisms involved in orthodontically and bacterially induced periodontal stress. <i>Journal of Orofacial Orthopedics</i> , 2012, 73, 430-439.	1.3	9
60	Subculture affects the phenotypic expression of human periodontal ligament cells and their response to fibroblast growth factor2 and bone morphogenetic protein7 in vitro. <i>Journal of Periodontal Research</i> , 2008, 43, 563-569.	2.7	8
61	Continuous PTH modulates alkaline phosphatase activity in human PDL cells via protein kinase C dependent pathways in vitro. <i>Annals of Anatomy</i> , 2013, 195, 455-460.	1.9	8
62	Dental and craniofacial characteristics in a patient with Hutchinson-Gilford progeria syndrome. <i>Journal of Orofacial Orthopedics</i> , 2014, 75, 251-263.	1.3	8
63	Gene analysis of signal transduction factors and transcription factors in periodontal ligament cells following application of dynamic strain. <i>Journal of Orofacial Orthopedics</i> , 2012, 73, 486-497.	1.3	6
64	Symmetric and asymmetric expansion of molars using a Burstone-type transpalatal arch. <i>Journal of Orofacial Orthopedics</i> , 2015, 76, 377-390.	1.3	6
65	The stability of different housekeeping genes in human periodontal ligament cells under inflammatory conditions. <i>Annals of Anatomy</i> , 2019, 224, 81-87.	1.9	6
66	Resorption behavior of a nanostructured bone substitute: in vitro investigation and clinical application. <i>Journal of Orofacial Orthopedics</i> , 2013, 74, 165-175.	1.3	4
67	A novel serum-free medium for the isolation, expansion and maintenance of stemness and tissue-specific markers of primary human periodontal ligament cells. <i>Annals of Anatomy</i> , 2020, 231, 151517.	1.9	4
68	Increased tooth mobility after fixed orthodontic appliance treatment can be selectively utilized for case refinement via positioner therapy - a pilot study. <i>BMC Oral Health</i> , 2020, 20, 114.	2.3	4
69	Impact of radiation history, gender and age on bone quality in sites for orthodontic skeletal anchorage device placement. <i>Annals of Anatomy</i> , 2015, 199, 67-72.	1.9	3
70	Histomorphometric study of age-related changes in remodelling activity of human desmodontal bone. <i>Journal of Anatomy</i> , 1996, 189 ( Pt 2), 257-64.	1.5	2
71	Semiautomatic method for histomorphometry. <i>Computer Methods and Programs in Biomedicine</i> , 1990, 33, 49-55.	4.7	1
72	Predicting vertical growth of the mandibular ramus via hand-wrist radiographs. <i>Journal of Orofacial Orthopedics</i> , 2012, 73, 215-224.	1.3	1

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73	Incisor position analysis. Journal of Clinical Orthodontics: JCO, 1986, 20, 37-42.	0.1	1