

# Christian Kirschneck

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

1,508  
citations

331670

21  
h-index

454955

30  
g-index

126  
all docs

126  
docs citations

126  
times ranked

1259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Valid gene expression normalization by RT-qPCR in studies on hPDL fibroblasts with focus on orthodontic tooth movement and periodontitis. <i>Scientific Reports</i> , 2017, 7, 14751.	3.3	67
2	Expression kinetics of human periodontal ligament fibroblasts in the early phases of orthodontic tooth movement. <i>Journal of Orofacial Orthopedics</i> , 2018, 79, 337-351.	1.3	58
3	Efficacy of fluoride varnish for preventing white spot lesions and gingivitis during orthodontic treatment with fixed appliances—a prospective randomized controlled trial. <i>Clinical Oral Investigations</i> , 2016, 20, 2371-2378.	3.0	49
4	Meloxicam medication reduces orthodontically induced dental root resorption and tooth movement velocity: a combined in vivo and in vitro study of dental-periodontal cells and tissue. <i>Cell and Tissue Research</i> , 2017, 368, 61-78.	2.9	42
5	Interactive effects of periodontitis and orthodontic tooth movement on dental root resorption, tooth movement velocity and alveolar bone loss in a rat model. <i>Annals of Anatomy</i> , 2017, 210, 32-43.	1.9	42
6	Orthodontic forces add to nicotine-induced loss of periodontal bone. <i>Journal of Orofacial Orthopedics</i> , 2015, 76, 195-212.	1.3	40
7	The role of mechanotransduction versus hypoxia during simulated orthodontic compressive strain—an in vitro study of human periodontal ligament fibroblasts. <i>International Journal of Oral Science</i> , 2019, 11, 33.	8.6	36
8	Short-term effects of systematic premolar extraction on lip profile, vertical dimension and cephalometric parameters in borderline patients for extraction therapy—a retrospective cohort study. <i>Clinical Oral Investigations</i> , 2016, 20, 865-874.	3.0	35
9	Impact of Mechanical Load on the Expression Profile of Synovial Fibroblasts from Patients with and without Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 585.	4.1	35
10	Differentiated analysis of orthodontic tooth movement in rats with an improved rat model and three-dimensional imaging. <i>Annals of Anatomy</i> , 2013, 195, 539-553.	1.9	33
11	Reference genes for valid gene expression studies on rat dental, periodontal and alveolar bone tissue by means of RT-qPCR with a focus on orthodontic tooth movement and periodontitis. <i>Annals of Anatomy</i> , 2016, 204, 93-105.	1.9	33
12	Methodological accuracy of digital and manual model analysis in orthodontics — A retrospective clinical study. <i>Computers in Biology and Medicine</i> , 2015, 62, 103-109.	7.0	32
13	Regular nicotine intake increased tooth movement velocity, osteoclastogenesis and orthodontically induced dental root resorptions in a rat model. <i>International Journal of Oral Science</i> , 2017, 9, 174-184.	8.6	32
14	Facial landmark localization by curvature maps and profile analysis. <i>Head &amp; Face Medicine</i> , 2014, 10, 54.	2.1	30
15	Strontium ranelate improved tooth anchorage and reduced root resorption in orthodontic treatment of rats. <i>European Journal of Pharmacology</i> , 2014, 744, 67-75.	3.5	30
16	CD8+ T cells mediate the regenerative PTH effect in hPDL cells via Wnt10b signaling. <i>Innate Immunity</i> , 2016, 22, 674-681.	2.4	29
17	Effects of ethanol on human periodontal ligament fibroblasts subjected to static compressive force. <i>Alcohol</i> , 2019, 77, 59-70.	1.7	26
18	Short-term heat pre-treatment modulates the release of HMGB1 and pro-inflammatory cytokines in hPDL cells following mechanical loading and affects monocyte behavior. <i>Clinical Oral Investigations</i> , 2016, 20, 923-931.	3.0	25

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19	Comparative assessment of mouse models for experimental orthodontic tooth movement. Scientific Reports, 2020, 10, 12154.	3.3	25
20	Potential interactions among single nucleotide polymorphisms in bone- and cartilage-related genes in skeletal malocclusions. Orthodontics and Craniofacial Research, 2021, 24, 277-287.	2.8	25
21	Effects of the Highly COX-2-Selective Analgesic NSAID Etoricoxib on Human Periodontal Ligament Fibroblasts during Compressive Orthodontic Mechanical Strain. Mediators of Inflammation, 2019, 2019, 1-14.	3.0	24
22	Expression of glutathione peroxidase 1 in the spheno-occipital synchondrosis and its role in ROS-induced apoptosis. European Journal of Orthodontics, 2015, 37, 308-313.	2.4	23
23	Shear bond strength of different retainer wires and bonding adhesives in consideration of the pretreatment process. Head & Face Medicine, 2014, 10, 51.	2.1	22
24	Intra-observer reliability and agreement of manual and digital orthodontic model analysis. European Journal of Orthodontics, 2018, 40, 52-57.	2.4	21
25	Simplified method for applying static isotropic tensile strain in cell culture experiments with identification of valid RT-qPCR reference genes for PDL fibroblasts. European Journal of Orthodontics, 2020, 42, 359-370.	2.4	21
26	Effects of Compressive and Tensile Strain on Macrophages during Simulated Orthodontic Tooth Movement. Mediators of Inflammation, 2020, 2020, 1-10.	3.0	20
27	Housekeeping gene validation for RT-qPCR studies on synovial fibroblasts derived from healthy and osteoarthritic patients with focus on mechanical loading. PLoS ONE, 2019, 14, e0225790.	2.5	19
28	Reliability and intra-examiner agreement of orthodontic model analysis with a digital caliper on plaster and printed dental models. Clinical Oral Investigations, 2019, 23, 3387-3396.	3.0	19
29	Conformity, reliability and validity of digital dental models created by clinical intraoral scanning and extraoral plaster model digitization workflows. Computers in Biology and Medicine, 2018, 100, 114-122.	7.0	17
30	Defining Metaniches in the Oral Cavity According to Their Microbial Composition and Cytokine Profile. International Journal of Molecular Sciences, 2020, 21, 8218.	4.1	17
31	Improved eruption path quantification and treatment time prognosis in alignment of impacted maxillary canines using CBCT imaging. European Journal of Orthodontics, 2018, 40, 597-607.	2.4	16
32	Sodium-chloride-induced effects on the expression profile of human periodontal ligament fibroblasts with focus on simulated orthodontic tooth movement. European Journal of Oral Sciences, 2019, 127, 386-395.	1.5	16
33	Sensory Neuropeptides and their Receptors Participate in Mechano-Regulation of Murine Macrophages. International Journal of Molecular Sciences, 2019, 20, 503.	4.1	16
34	Role of HSP70 protein in human periodontal ligament cell function and physiology. Annals of Anatomy, 2019, 221, 76-83.	1.9	16
35	Osteoprotective action of low-salt diet requires myeloid cell-derived NFAT5. JCI Insight, 2019, 4, .	5.0	16
36	Effects of histamine on human periodontal ligament fibroblasts under simulated orthodontic pressure. PLoS ONE, 2020, 15, e0237040.	2.5	15

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37	Tooth agenesis-related GLI2 and GLI3 genes may contribute to craniofacial skeletal morphology in humans. <i>Archives of Oral Biology</i> , 2019, 103, 12-18.	1.8	14
38	CXCL5, CXCL8, and CXCL10 regulation by bacteria and mechanical forces in periodontium. <i>Annals of Anatomy</i> , 2021, 234, 151648.	1.9	14
39	Heat shock protein 70 dampens the inflammatory response of human PDL cells to mechanical loading in vitro. <i>Journal of Periodontal Research</i> , 2019, 54, 481-488.	2.7	13
40	Regulation of Autophagic Signaling by Mechanical Loading and Inflammation in Human PDL Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9446.	4.1	13
41	Elongated styloid process in patients with temporomandibular disorders – Is there a link?. <i>Annals of Anatomy</i> , 2018, 217, 118-124.	1.9	12
42	Effects of the highly COX-2-selective analgesic NSAID etoricoxib on the rate of orthodontic tooth movement and cranial growth. <i>Annals of Anatomy</i> , 2018, 220, 21-28.	1.9	12
43	Genetic polymorphisms influence gene expression of human periodontal ligament fibroblasts in the early phases of orthodontic tooth movement. <i>Odontology / the Society of the Nippon Dental University</i> , 2020, 108, 493-502.	1.9	12
44	Genetic variants in tooth agenesis-related genes might be also involved in tooth size variations. <i>Clinical Oral Investigations</i> , 2021, 25, 1307-1318.	3.0	12
45	Craniofacial and Cervical Morphology Related to Sagittal Spinal Posture in Children and Adolescents. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	11
46	Regulation of Anti-Apoptotic SOD2 and BIRC3 in Periodontal Cells and Tissues. <i>International Journal of Molecular Sciences</i> , 2021, 22, 591.	4.1	11
47	A new albumin-depletion strategy improves proteomic research of gingival crevicular fluid from periodontitis patients. <i>Clinical Oral Investigations</i> , 2018, 22, 1375-1384.	3.0	10
48	Current trends of genetics in apical periodontitis research. <i>Brazilian Oral Research</i> , 2018, 32, e72.	1.4	10
49	Malocclusion Can Give Additional Hints for Diagnosis of Fetal Alcohol Spectrum Disorder. <i>Alcohol and Alcoholism</i> , 2019, 54, 56-61.	1.6	10
50	A Human Periodontal Ligament Fibroblast Cell Line as a New Model to Study Periodontal Stress. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7961.	4.1	10
51	Effect of ovariectomy on maxilla and mandible dimensions of female rats. <i>Orthodontics and Craniofacial Research</i> , 2020, 23, 342-350.	2.8	10
52	Impact of salt and the osmoprotective transcription factor NFAT5 on macrophages during mechanical strain. <i>Immunology and Cell Biology</i> , 2021, 99, 84-96.	2.3	10
53	3D Analysis of Philtrum Depth in Children with Fetal Alcohol Syndrome. <i>Alcohol and Alcoholism</i> , 2019, 54, 152-158.	1.6	9
54	Selection and validation of reference genes by RT-qPCR for murine cementoblasts in mechanical loading experiments simulating orthodontic forces in vitro. <i>Scientific Reports</i> , 2020, 10, 10893.	3.3	9

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55	Parathyroid Hormone Gene and Genes Involved in the Maintenance of Vitamin D Levels Association with Mandibular Retrognathism. <i>Journal of Personalized Medicine</i> , 2021, 11, 369.	2.5	9
56	Genetic variation involved in the risk to external apical root resorption in orthodontic patients: a systematic review. <i>Clinical Oral Investigations</i> , 2021, 25, 5613-5627.	3.0	9
57	Filifactor <i>alocis</i> and Tumor Necrosis Factor-Alpha Stimulate Synthesis of Visfatin by Human Macrophages. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1235.	4.1	9
58	Successful treatment of multiple bilateral impactions - a case report. <i>Head &amp; Face Medicine</i> , 2016, 12, 24.	2.1	8
59	Asymmetry-index and orthodontic facial analysis of children with foetal alcohol syndrome using 3D-facial scans. <i>Pediatric Research</i> , 2020, 88, 243-249.	2.3	8
60	Twenty-year follow-up of functional treatment with a bionator appliance: <i>A retrospective dental cast analysis</i>. <i>Angle Orthodontist</i> , 2020, 90, 209-215.	2.4	8
61	The role of HIF-1 $\alpha$ in nicotine-induced root and bone resorption during orthodontic tooth movement. <i>European Journal of Orthodontics</i> , 2021, 43, 516-526.	2.4	8
62	Auswirkungen von Natriumchlorid auf das Genexpressionsprofil parodontaler Ligamentfibroblasten bei Dehnung. <i>Journal of Orofacial Orthopedics</i> , 2020, 81, 360-370.	1.3	8
63	Mechanical Stress Induce PG-E2 in Murine Synovial Fibroblasts Originating from the Temporomandibular Joint. <i>Cells</i> , 2021, 10, 298.	4.1	8
64	Comparison of additive manufactured models of the mandible in accuracy and quality using six different 3D printing systems. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2021, 49, 855-866.	1.7	8
65	Exploring the Association Between Genetic Polymorphisms in Genes Involved in Craniofacial Development and Isolated Tooth Agenesis. <i>Frontiers in Physiology</i> , 2021, 12, 723105.	2.8	8
66	BMP-7 Preserves Surface Integrity of Degradable-ceramic Cranioplasty in a Göttingen Minipig Model. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2017, 5, e1255.	0.6	7
67	Mapping the secretome of human chondrogenic progenitor cells with mass spectrometry. <i>Annals of Anatomy</i> , 2017, 212, 4-10.	1.9	7
68	Age assessment based on third molar mineralisation. <i>Journal of Orofacial Orthopedics</i> , 2017, 78, 97-111.	1.3	7
69	Bone Morphogenetic Protein-7 Enhances Degradation of Osteoinductive Bioceramic Implants in an Ectopic Model. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2017, 5, e1375.	0.6	7
70	Role of Oxygen Supply in Macrophages in a Model of Simulated Orthodontic Tooth Movement. <i>Mediators of Inflammation</i> , 2020, 2020, 1-11.	3.0	7
71	Role and Regulation of Mechanotransductive HIF-1 $\alpha$ Stabilisation in Periodontal Ligament Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9530.	4.1	7
72	Early OA Stage Like Response Occurs after Dynamic Stretching of Human Synovial Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3874.	4.1	7

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73	Side effects of twistflex retainersâ€”3D evaluation of tooth movement after retainer debonding. <i>Journal of Orofacial Orthopedics</i> , 2021, 82, 121-130.	1.3	7
74	Relationship between back posture and early orthodontic treatment in children. <i>Head &amp; Face Medicine</i> , 2021, 17, 4.	2.1	7
75	Estrogen deficiency affects tooth formation and gene expression in the odontogenic region of female rats. <i>Annals of Anatomy</i> , 2021, 236, 151702.	1.9	7
76	The role of 25-hydroxyvitamin-D3 and vitamin D receptor gene in human periodontal ligament fibroblasts as response to orthodontic compressive strain: an in vitro study. <i>BMC Oral Health</i> , 2021, 21, 386.	2.3	7
77	Psychological profile and self-administered relaxation in patients with craniofacial pain: a prospective in-office study. <i>Head &amp; Face Medicine</i> , 2013, 9, 31.	2.1	6
78	Impact of NSAID etoricoxib on side effects of orthodontic tooth movement. <i>Annals of Anatomy</i> , 2020, 232, 151585.	1.9	6
79	Effects of Histamine Receptor Antagonist Cetirizine on Orthodontic Tooth Movement. <i>Biomedicines</i> , 2020, 8, 583.	3.2	6
80	Depth of acid penetration and enamel surface roughness associated with different methods of interproximal enamel reduction. <i>PLoS ONE</i> , 2020, 15, e0229595.	2.5	6
81	Effects of estrogen deficiency during puberty on maxillary and mandibular growth and associated gene expression â€” an $\frac{1}{4}$ CT study on rats. <i>Head &amp; Face Medicine</i> , 2021, 17, 14.	2.1	6
82	Age assessment in orthodontics and general dentistry. <i>Quintessence International</i> , 2018, 49, 313-323.	0.4	6
83	Transforming Growth Factor Beta Receptor 2 (TGFB2) Promoter Region Polymorphisms May Be Involved in Mandibular Retrognathism. <i>BioMed Research International</i> , 2022, 2022, 1-7.	1.9	6
84	Impact of Leptin on Periodontal Ligament Fibroblasts during Mechanical Strain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6847.	4.1	5
85	Genetic variants in bone morphogenetic proteins signaling pathway might be involved in palatal rugae phenotype in humans. <i>Scientific Reports</i> , 2021, 11, 12715.	3.3	5
86	Myeloid HIF1 $\alpha$ Is Involved in the Extent of Orthodontically Induced Tooth Movement. <i>Biomedicines</i> , 2021, 9, 796.	3.2	5
87	Investigation of the Expression of Inflammatory Markers in Oral Biofilm Samples in Patients with Systemic Scleroderma and the Association with Clinical Periodontal Parametersâ€”A Preliminary Study. <i>Life</i> , 2021, 11, 1145.	2.4	5
88	Association of third molar agenesis and microdontia with genetic polymorphisms in vitamin-D-related genes. <i>Annals of Anatomy</i> , 2022, 244, 151972.	1.9	5
89	Dietary Salt Accelerates Orthodontic Tooth Movement by Increased Osteoclast Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 596.	4.1	4
90	Effects of mechanical strain on periodontal ligament fibroblasts in presence of <i>Aggregatibacter actinomycetemcomitans</i> lysate. <i>BMC Oral Health</i> , 2021, 21, 405.	2.3	4

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91	An Evaluation of Different 3D Cultivation Models on Expression Profiles of Human Periodontal Ligament Fibroblasts with Compressive Strain. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2029.	4.1	4
92	Retrospective Cohort Study on Potential Risk Factors for Repeated Need of Dental Rehabilitation under General Anesthesia in a Private Pediatric Dental Practice. <i>Children</i> , 2022, 9, 855.	1.5	4
93	Influence of enamel sealing with a light-cured filled sealant before bracket bonding on the bond failure rate during fixed orthodontic therapy. <i>Journal of Orofacial Orthopedics</i> , 2019, 80, 136-143.	1.3	3
94	Differential gene expression response of synovial fibroblasts from temporomandibular joints and knee joints to dynamic tensile stress. <i>Journal of Orofacial Orthopedics</i> , 2022, 83, 361-375.	1.3	3
95	Assessing the association between vitamin D receptor and dental age variability. <i>Clinical Oral Investigations</i> , 2022, 26, 1677-1682.	3.0	3
96	Radiographic Bone Loss and Its Relation to Patient-Specific Risk Factors, LDL Cholesterol, and Vitamin D: A Cross-Sectional Study. <i>Nutrients</i> , 2022, 14, 864.	4.1	3
97	Association of dentoskeletal morphology with incisor inclination in angle class II patients: a retrospective cephalometric study. <i>Head &amp; Face Medicine</i> , 2013, 9, 24.	2.1	2
98	Local Vascularization during Orthodontic Tooth Movement in a Split Mouth Rat Model – A MRI Study. <i>Biomedicines</i> , 2020, 8, 632.	3.2	2
99	Duration of toothbrushing with fixed appliances: a randomized crossover clinical trial. <i>European Journal of Orthodontics</i> , 2022, 44, 252-257.	2.4	2
100	OUP accepted manuscript. <i>European Journal of Orthodontics</i> , 2022, , .	2.4	2
101	Assessing the prevalence of S-shaped root canal and associated genes in humans. <i>Annals of Anatomy</i> , 2022, 244, 151977.	1.9	2
102	The fascinating world of non-coding RNA and how it may help to unravel the mysteries of tooth movement regulation. <i>European Journal of Orthodontics</i> , 2019, 41, 343-345.	2.4	1
103	Effects of histamine and various histamine receptor antagonists on gene expression profiles of macrophages during compressive strain. <i>Journal of Orofacial Orthopedics</i> , 2022, 83, 13-23.	1.3	1
104	Administration of a VEGFR <sup>2</sup> -specific MRI contrast agent to assess orthodontic tooth movement. <i>Journal of Orofacial Orthopedics</i> , 2022, 83, 117-123.	1.3	1
105	Study of Dental Caries and PTH Gene. <i>Frontiers in Dental Medicine</i> , 2021, 2, .	1.4	1
106	Estrogen deficiency during puberty affects the expression of microRNA30a and microRNA503 in the mandibular condyle. <i>Annals of Anatomy</i> , 2022, 240, 151865.	1.9	1
107	Single nucleotide polymorphisms in runt-related transcription factor 2 and bone morphogenetic protein 2 impact on their maxillary and mandibular gene expression in different craniofacial patterns - A comparative study. <i>Annals of Maxillofacial Surgery</i> , 2021, 11, 222.	0.7	1
108	Effect of Bacterial Infection on Ghrelin Receptor Regulation in Periodontal Cells and Tissues. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3039.	4.1	1

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109	Ideal transverse position of mandibular first molars based on CBCT-derived alveolar bone coverage. <i>Annals of Anatomy</i> , 2022, 241, 151908.	1.9	1
110	Einfluss der Phosphorylierung des Hitzeschockproteins $\alpha$ 27 auf das Expressionsprofil von parodontalen Ligamentfibroblasten bei mechanischer Belastung. <i>Journal of Orofacial Orthopedics</i> , 2023, 84, 143-153.	1.3	1
111	Dietary salt and myeloid NFAT5 (nuclear factor of activated T cells 5) impact on the number of bone-remodelling cells and frequency of root resorption during orthodontic tooth movement. <i>Annals of Anatomy</i> , 2022, 244, 151979.	1.9	1
112	Morphometric characteristics of anencephalic skulls – A comparative study. <i>Annals of Anatomy</i> , 2021, 233, 151607.	1.9	0
113	Tooth agenesis might be associated with palatine rugae pattern in a tooth Brazilians population. <i>Research, Society and Development</i> , 2021, 10, e29010716487.	0.1	0
114	Influence of dental occlusion on oculomotory function – A pilot study. <i>Annals of Anatomy</i> , 2022, 239, 151804.	1.9	0
115	Testosterone suppression impacts craniofacial growth structures during puberty. <i>Journal of Orofacial Orthopedics</i> , 2022, , 1.	1.3	0
116	Impact of Myeloid p38 $\beta$ /MAPK on Orthodontic Tooth Movement. <i>Journal of Clinical Medicine</i> , 2022, 11, 1796.	2.4	0
117	Title is missing!. , 2020, 15, e0229595.		0
118	Title is missing!. , 2020, 15, e0229595.		0
119	Title is missing!. , 2020, 15, e0229595.		0
120	Title is missing!. , 2020, 15, e0229595.		0
121	Effects of histamine on human periodontal ligament fibroblasts under simulated orthodontic pressure. , 2020, 15, e0237040.		0
122	Effects of histamine on human periodontal ligament fibroblasts under simulated orthodontic pressure. , 2020, 15, e0237040.		0
123	Effects of histamine on human periodontal ligament fibroblasts under simulated orthodontic pressure. , 2020, 15, e0237040.		0