

Paolo Maria Cattaneo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,834
citations

23
h-index

41
g-index

96
ext. papers

2,269
ext. citations

2.7
avg, IF

4.98
L-index

#	Paper	IF	Citations
81	The finite element method: a tool to study orthodontic tooth movement. <i>Journal of Dental Research</i> , 2005 , 84, 428-33	8.1	245
80	An analysis of different approaches to the assessment of upper airway morphology: a CBCT study. <i>Orthodontics and Craniofacial Research</i> , 2010 , 13, 96-105	3	147
79	Association of orthodontic force system and root resorption: A systematic review. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015 , 147, 610-26	2.1	126
78	Two- versus three-dimensional imaging in subjects with unerupted maxillary canines. <i>European Journal of Orthodontics</i> , 2011 , 33, 344-9	3.3	103
77	Comparison between conventional and cone-beam computed tomography-generated cephalograms. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2008 , 134, 798-802	2.1	83
76	Strains in periodontal ligament and alveolar bone associated with orthodontic tooth movement analyzed by finite element. <i>Orthodontics and Craniofacial Research</i> , 2009 , 12, 120-8	3	79
75	A three-dimensional finite element model from computed tomography data: a semi-automated method. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2001 , 215, 203-13	1.7	69
74	Validation of a musculo-skeletal model of the mandible and its application to mandibular distraction osteogenesis. <i>Journal of Biomechanics</i> , 2007 , 40, 1192-201	2.9	66
73	Transversal maxillary dento-alveolar changes in patients treated with active and passive self-ligating brackets: a randomized clinical trial using CBCT-scans and digital models. <i>Orthodontics and Craniofacial Research</i> , 2011 , 14, 222-33	3	63
72	The transfer of occlusal forces through the maxillary molars: a finite element study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2003 , 123, 367-73	2.1	57
71	Moment-to-force ratio, center of rotation, and force level: a finite element study predicting their interdependency for simulated orthodontic loading regimens. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2008 , 133, 681-9	2.1	56
70	The relationship between upper airways and craniofacial morphology studied in 3D. A CBCT study. <i>Orthodontics and Craniofacial Research</i> , 2015 , 18, 1-11	3	51
69	Computer-aided design and manufacture of hyrax devices: Can we really go digital?. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2017 , 152, 870-874	2.1	36
68	Reduced mandibular growth in experimental arthritis in the temporomandibular joint treated with intra-articular corticosteroid. <i>European Journal of Orthodontics</i> , 2008 , 30, 111-9	3.3	36
67	Microcracks in the alveolar bone following orthodontic tooth movement: a morphological and morphometric study. <i>European Journal of Orthodontics</i> , 2004 , 26, 459-67	3.3	36
66	Mechanical behavior of ceramic veneer in zirconia-based restorations: a 3- dimensional finite element analysis using microcomputed tomography data. <i>Journal of Prosthetic Dentistry</i> , 2011 , 105, 14-20	4	34
65	A novel semiautomatic technique for volumetric assessment of the alveolar bone defect using cone beam computed tomography. <i>Cleft Palate-Craniofacial Journal</i> , 2015 , 52, e47-55	1.9	33

64	The Importance of Force Levels in Relation to Tooth Movement. <i>Seminars in Orthodontics</i> , 2007 , 13, 220-233	3.0	30
63	An evaluation of insertion sites for mini-implants: a micro - CT study of human autopsy material. <i>Angle Orthodontist</i> , 2013 , 83, 222-9	2.6	27
62	Effect of Head and Tongue Posture on the Pharyngeal Airway Dimensions and Morphology in Three-Dimensional Imaging: a Systematic Review. <i>Journal of Oral & Maxillofacial Research</i> , 2016 , 7, e1	2.1	27
61	The use of cone-beam computed tomography in an orthodontic department in between research and daily clinic. <i>World Journal of Orthodontics</i> , 2008 , 9, 269-82		27
60	Using the finite element method to model the biomechanics of the asymmetric mandible before, during and after skeletal correction by distraction osteogenesis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005 , 8, 157-65	2.1	25
59	Three-dimensional finite element analysis of the mandible and temporomandibular joint during vertical ramus elongation by distraction osteogenesis. <i>Journal of Craniofacial Surgery</i> , 2005 , 16, 586-93	1.2	24
58	Evaluation of maxillary buccal alveolar bone before and after orthodontic alignment without extractions: A cone beam computed tomographic study. <i>Angle Orthodontist</i> , 2018 , 88, 748-756	2.6	19
57	Mandibular Symphyseal Bone Graft for Reconstruction of Alveolar Cleft Defects: Volumetric Assessment With Cone Beam Computed Tomography 1-Year Postsurgery. <i>Cleft Palate-Craniofacial Journal</i> , 2016 , 53, 64-72	1.9	18
56	Assessment of dentofacial growth deviation in juvenile idiopathic arthritis: Reliability and validity of three-dimensional morphometric measures. <i>PLoS ONE</i> , 2018 , 13, e0194177	3.7	17
55	Synchrotron radiation-based microtomography of alveolar support tissues. <i>Orthodontics and Craniofacial Research</i> , 2006 , 9, 199-205	3	17
54	Labio-lingual root control of lower anterior teeth and canines obtained by active and passive self-ligating brackets. <i>Angle Orthodontist</i> , 2013 , 83, 691-7	2.6	16
53	Three-dimensional prediction of roots position through cone-beam computed tomography scans-digital model superimposition: A novel method. <i>Orthodontics and Craniofacial Research</i> , 2019 , 22, 16-23	3	16
52	Three-dimensional evaluation of changes in upper airway volume in growing skeletal Class II patients following mandibular advancement treatment with functional orthopedic appliances. <i>Angle Orthodontist</i> , 2018 , 88, 552-559	2.6	16
51	Three-dimensional analyses of short- and long-term effects of rapid maxillary expansion on nasal cavity and upper airway: A systematic review and meta-analysis. <i>Orthodontics and Craniofacial Research</i> , 2020 , 23, 250-276	3	15
50	Corticotomy affects both the modus and magnitude of orthodontic tooth movement. <i>European Journal of Orthodontics</i> , 2018 , 40, 107-112	3.3	15
49	Prediction of the articular eminence shape in a patient with unilateral hypoplasia of the right mandibular ramus before and after distraction osteogenesis-A simulation study. <i>Journal of Biomechanics</i> , 2009 , 42, 1049-53	2.9	15
48	Analysis of stress and strain around orthodontically loaded implants: an animal study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2007 , 22, 213-25	2.8	15
47	No association between types of unilateral mandibular condylar abnormalities and facial asymmetry in orthopedic-treated patients with juvenile idiopathic arthritis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2018 , 153, 214-223	2.1	14

46	A new simple three-dimensional method to characterize upper airway in orthognathic surgery patient. <i>Dentomaxillofacial Radiology</i> , 2017 , 46, 20170042	3.9	12
45	Three-dimensional finite element analysis of the mandible and temporomandibular joint on simulated occlusal forces before and after vertical ramus elongation by distraction osteogenesis. <i>Journal of Craniofacial Surgery</i> , 2005 , 16, 421-9	1.2	11
44	Correlation between tooth size-arch length discrepancy and interradicular distances measured on CBCT and panoramic radiograph: an evaluation for miniscrew insertion. <i>Dental Press Journal of Orthodontics</i> , 2018 , 23, 39.e1-39.e13	1.3	11
43	The effect of altered head and tongue posture on upper airway volume based on a validated upper airway analysis-An MRI pilot study. <i>Orthodontics and Craniofacial Research</i> , 2020 , 23, 102-109	3	10
42	Computer-aided indirect bonding versus traditional direct bonding of orthodontic brackets: bonding time, immediate bonding failures, and cost-minimization. A randomized controlled trial. <i>European Journal of Orthodontics</i> , 2021 , 43, 144-151	3.3	10
41	Which factors influence orthodontists in their decision to extract? A questionnaire survey. <i>Journal of Clinical and Experimental Dentistry</i> , 2019 , 11, e432-e438	1.4	8
40	Influence of buccal cusp reduction when using porcelain laminate veneers in premolars. A comparative study using 3-D finite element analysis. <i>Journal of Prosthodontic Research</i> , 2011 , 55, 221-7	4.3	8
39	Novel 3-D Analysis for the Assessment of Cleft Dimensions on Digital Models of Infants With Unilateral Cleft Lip and Palate. <i>Cleft Palate-Craniofacial Journal</i> , 2019 , 56, 127-133	1.9	8
38	Orthodontic Tooth Movement Studied by Finite Element Analysis: an Update. What Can We Learn from These Simulations?. <i>Current Osteoporosis Reports</i> , 2021 , 19, 175-181	5.4	8
37	Average interradicular sites for miniscrew insertion: should dental crowding be considered?. <i>Dental Press Journal of Orthodontics</i> , 2017 , 22, 90-97	1.3	7
36	Multi-level synchrotron radiation-based microtomography of the dental alveolus and its consequences for orthodontics. <i>Journal of Biomechanics</i> , 2015 , 48, 801-6	2.9	7
35	Palatal morphology in unilateral cleft lip and palate patients: Association with infant cleft dimensions and timing of hard palate repair. <i>Orthodontics and Craniofacial Research</i> , 2019 , 22, 270-280	3	6
34	Osteonal mineralization patterns in cortical bone studied by synchrotron-radiation-based computed microtomography and scanning acoustic microscopy 2004 , 5535, 143		5
33	Treatment effect of bone-anchored maxillary protraction in growing patients compared to controls: a systematic review with meta-analysis. <i>European Journal of Orthodontics</i> , 2021 , 43, 51-68	3.3	5
32	Two-Year Postoperative Upper Airway Cone-Beam Computed Tomographic Outcomes Based on a Verified Upper Airway Analysis Following Bimaxillary Orthognathic Surgery. <i>Journal of Oral and Maxillofacial Surgery</i> , 2019 , 77, 1435-1445	1.8	4
31	Prevalence of Sleep-Disordered Breathing in Children Referring for First Dental Examination. A Multicenter Cross-Sectional Study Using Pediatric Sleep Questionnaire. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
30	Orthodontically induced root resorption: A critical analysis of finite element studiesTinput and output. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021 , 159, 779-789	2.1	4
29	Individualization of the three-piece base arch mechanics according to various periodontal support levels: A finite element analysis. <i>Orthodontics and Craniofacial Research</i> , 2021 , 24, 214-221	3	3

28	Characterization of the Upper Airway Morphology and Its Changes in the Apneic Patient Using Cone Beam Computed Tomography 2014 , 273-291		2
27	Microtomography of the human tooth-alveolar bone complex 2006 ,		2
26	Comparison of conventional and synchrotron-radiation-based microtomography of bone around dental implants 2004 ,		2
25	Root repair after damage due to screw insertion for orthodontic miniplate placement. <i>Journal of Clinical and Experimental Dentistry</i> , 2019 , 11, e1133-e1138	1.4	2
24	Interradicular sites and cortical bone thickness for miniscrew insertion: A systematic review with meta-analysis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2020 , 158, 783-798.e20	2.1	2
23	A Danish version of the oral health impact profile-14 (OHIP-14): translation and cross-cultural adaptation. <i>BMC Oral Health</i> , 2020 , 20, 254	3.7	2
22	Can maxilla and mandible bone quality explain differences in orthodontic mini-implant failures?. <i>Biomaterial Investigations in Dentistry</i> , 2021 , 8, 1-9	2	2
21	Impact of Treatment with Full-fixed Orthodontic Appliances on the Periodontium and the Composition of the Subgingival Microbiota. <i>Journal of the International Academy of Periodontology</i> , 2020 , 22, 174-181	0.9	2
20	Comparison of Different Invisalign [®] and 3Shape [®] Attachment Shapes to Control Premolar Rotation.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 840622	5.8	2
19	3D landmarks of Craniofacial Imaging and subsequent considerations on superimpositions in orthodontics-The Aarhus perspective. <i>Orthodontics and Craniofacial Research</i> , 2019 , 22 Suppl 1, 21-29	3	1
18	Effect of the software binning and averaging data during microcomputed tomography image acquisition. <i>Scientific Reports</i> , 2019 , 9, 10562	4.9	1
17	Infrared Light-Emitting Diode (LED) Effects on Orthodontic Tooth Movement. <i>Brazilian Dental Journal</i> , 2019 , 30, 410-416	1.9	1
16	Finite Element Analysis in Dentistry. <i>From Biomaterials Towards Medical Devices</i> , 2018 , 67-89		1
15	A semi-automatic approach for longitudinal 3D upper airway analysis using voxel-based registration. <i>Dentomaxillofacial Radiology</i> , 2021 , 20210253	3.9	1
14	Malocclusion and oral health-related quality of life among young Danish adults. Is there a difference between subjects who received orthodontic treatment during adolescence and subjects without treatment need? A cross-sectional study. <i>Acta Odontologica Scandinavica</i> , 2021 , 1-9	2.2	1
13	Do Infant Cleft Dimensions Have an Influence on Occlusal Relations? A Subgroup Analysis Within an RCT of Primary Surgery in Patients With Unilateral Cleft Lip and Palate. <i>Cleft Palate-Craniofacial Journal</i> , 2020 , 57, 378-388	1.9	1
12	Mandibular Teeth Movement Variations in Tipping Scenario: A Finite Element Study on Several Patients 2021 , 31-43		1
11	Novel three-dimensional methods to analyze the morphology of the nasal cavity and pharyngeal airway. <i>Angle Orthodontist</i> , 2021 , 91, 320-328	2.6	1

10	Tissue Reaction to Orthodontic Force Systems. Are we in Control? 2021 , 129-138		1
9	Association between Rapid Maxillary Expansion and Nocturnal Enuresis in Children: A Pilot Study for a Randomized Controlled Clinical Trial. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9025	2.6	0
8	Translation and cross-cultural adaptation of the sleep-related breathing disorder scale of the Pediatric Sleep Questionnaire into Danish language.. <i>Acta Odontologica Scandinavica</i> , 2022 , 1-8	2.2	0
7	Computer-aided design and manufacturing of bone- and tooth-borne maxillary protraction with miniscrews and Class III elastics: Can we contemporize Class III treatments in growing patients?. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021 , 159, 125-132	2.1	0
6	Restricted upper airway dimensions in patients with dentofacial deformity from juvenile idiopathic arthritis.. <i>Pediatric Rheumatology</i> , 2022 , 20, 32	3.5	0
5	An in vitro assessment of the influences of different wire materials and bracket systems when correcting dental crowding. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 108	4.5	
4	Re: Response to: Labio-lingual root control of lower anterior teeth and canines obtained by active and passive self-ligating brackets. Paolo M. Cattaneo; Raaid A. Salih; Birte Melsen; The Angle Orthodontist, 2013;83(4)691-697. <i>Angle Orthodontist</i> , 2013 , 83, 1105	2.6	
3	Surgically Assisted Tooth Movement 2021 , 238-264		
2	The clinical benefits of orthodontic treatment to pathologically migrated teeth: A systematic review. <i>Australasian Orthodontic Journal</i> , 2021 , 35, 184-194		
1	Bonding Failures of Lingual Orthodontic Brackets: A Retrospective Study Comparing Lingual Brackets with KommonBase Extensions, to Customized Lingual Brackets. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4928	2.6	