Paolo Maria Cattaneo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Finite Element Method: a Tool to Study Orthodontic Tooth Movement. Journal of Dental Research, 2005, 84, 428-433.	5.2	320
2	An analysis of different approaches to the assessment of upper airway morphology: a CBCT study. Orthodontics and Craniofacial Research, 2010, 13, 96-105.	2.8	185
3	Association of orthodontic force system and root resorption: A systematic review. American Journal of Orthodontics and Dentofacial Orthopedics, 2015, 147, 610-626.	1.7	181
4	Two- versus three-dimensional imaging in subjects with unerupted maxillary canines. European Journal of Orthodontics, 2011, 33, 344-349.	2.4	133
5	Comparison between conventional and cone-beam computed tomography–generated cephalograms. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 134, 798-802.	1.7	103
6	Strains in periodontal ligament and alveolar bone associated with orthodontic tooth movement analyzed by finite element. Orthodontics and Craniofacial Research, 2009, 12, 120-128.	2.8	103
7	A three-dimensional finite element model from computed tomography data: A semi-automated method. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2001, 215, 203-212.	1.8	85
8	Validation of a musculo-skeletal model of the mandible and its application to mandibular distraction osteogenesis. Journal of Biomechanics, 2007, 40, 1192-1201.	2.1	84
9	Transversal maxillary dentoâ€alveolar changes in patients treated with active and passive selfâ€ligating brackets: a randomized clinical trial using CBCTâ€scans and digital models. Orthodontics and Craniofacial Research, 2011, 14, 222-233.	2.8	80
10	Moment-to-force ratio, center of rotation, and force level: A finite element study predicting their interdependency for simulated orthodontic loading regimens. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 133, 681-689.	1.7	77
11	The relationship between upper airways and craniofacial morphology studied in 3 <scp>D</scp> . A <scp>CBCT</scp> study. Orthodontics and Craniofacial Research, 2015, 18, 1-11.	2.8	72
12	The transfer of occlusal forces through the maxillary molars: A finite element study. American Journal of Orthodontics and Dentofacial Orthopedics, 2003, 123, 367-373.	1.7	69
13	Computer-aided design and manufacture of hyrax devices: Can we really go digital?. American Journal of Orthodontics and Dentofacial Orthopedics, 2017, 152, 870-874.	1.7	60
14	Microcracks in the alveolar bone following orthodontic tooth movement: a morphological and morphometric study. European Journal of Orthodontics, 2004, 26, 459-467.	2.4	50
15	A Novel Semiautomatic Technique for Volumetric Assessment of the Alveolar Bone Defect Using Cone Beam Computed Tomography. Cleft Palate-Craniofacial Journal, 2015, 52, 47-55.	0.9	48
16	Mechanical behavior of ceramic veneer in zirconia-based restorations: A 3- dimensional finite element analysis using microcomputed tomography data. Journal of Prosthetic Dentistry, 2011, 105, 14-20.	2.8	42
17	Reduced mandibular growth in experimental arthritis in the temporomandibular joint treated with intra-articular corticosteroid. European Journal of Orthodontics, 2008, 30, 111-119.	2.4	41
18	Threeâ€dimensional analyses of short―and longâ€ŧerm effects of rapid maxillary expansion on nasal cavity and upper airway: A systematic review and metaâ€analysis. Orthodontics and Craniofacial Research, 2020, 23, 250-276.	2.8	41

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19	Effect of Head and Tongue Posture on the Pharyngeal Airway Dimensions and Morphology in Three-Dimensional Imaging: a Systematic Review. Journal of Oral & Maxillofacial Research, 2016, 7, e1.	1.0	40
20	The Importance of Force Levels in Relation to Tooth Movement. Seminars in Orthodontics, 2007, 13, 220-233.	1.4	38
21	Evaluation of maxillary buccal alveolar bone before and after orthodontic alignment without extractions: A cone beam computed tomographic study. Angle Orthodontist, 2018, 88, 748-756.	2.4	37
22	An evaluation of insertion sites for mini-implants. Angle Orthodontist, 2013, 83, 222-229.	2.4	36
23	Using the finite element method to model the biomechanics of the asymmetric mandible before, during and after skeletal correction by distraction osteogenesis. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 157-165.	1.6	34
24	Computer-aided indirect bonding versus traditional direct bonding of orthodontic brackets: bonding time, immediate bonding failures, and cost-minimization. A randomized controlled trial. European Journal of Orthodontics, 2021, 43, 144-151.	2.4	34
25	Three-Dimensional Finite Element Analysis of the Mandible and Temporomandibular Joint During Vertical Ramus Elongation by Distraction Osteogenesis. Journal of Craniofacial Surgery, 2005, 16, 586-593.	0.7	30
26	Mandibular Symphyseal Bone Graft for Reconstruction of Alveolar Cleft Defects: Volumetric Assessment with Cone Beam Computed Tomography 1-Year Postsurgery. Cleft Palate-Craniofacial Journal, 2016, 53, 64-72.	0.9	28
27	Three-dimensional evaluation of changes in upper airway volume in growing skeletal Class II patients following mandibular advancement treatment with functional orthopedic appliances. Angle Orthodontist, 2018, 88, 552-559.	2.4	28
28	The use of cone-beam computed tomography in an orthodontic department in between research and daily clinic. World Journal of Orthodontics, 2008, 9, 269-82.	0.2	28
29	Threeâ€dimensional prediction of roots position through coneâ€beam computed tomography scansâ€digital model superimposition: A novel method. Orthodontics and Craniofacial Research, 2019, 22, 16-23.	2.8	26
30	Synchrotron radiationâ€based microtomography of alveolar support tissues. Orthodontics and Craniofacial Research, 2006, 9, 199-205.	2.8	25
31	Labio-lingual root control of lower anterior teeth and canines obtained by active and passive self-ligating brackets. Angle Orthodontist, 2013, 83, 691-697.	2.4	25
32	Corticotomy affects both the modus and magnitude of orthodontic tooth movement. European Journal of Orthodontics, 2018, 40, 107-112.	2.4	25
33	Orthodontic Tooth Movement Studied by Finite Element Analysis: an Update. What Can We Learn from These Simulations?. Current Osteoporosis Reports, 2021, 19, 175-181.	3.6	25
34	Assessment of dentofacial growth deviation in juvenile idiopathic arthritis: Reliability and validity of three-dimensional morphometric measures. PLoS ONE, 2018, 13, e0194177.	2.5	24
35	The effect of altered head and tongue posture on upper airway volume based on a validated upper airway analysis—An MRI pilot study. Orthodontics and Craniofacial Research, 2020, 23, 102-109.	2.8	22
36	Which factors influence orthodontists in their decision to extract? A questionnaire survey. Journal of Clinical and Experimental Dentistry, 2019, 11, e432-e438.	1.2	21

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37	A new simple three-dimensional method to characterize upper airway in orthognathic surgery patient. Dentomaxillofacial Radiology, 2017, 46, 20170042.	2.7	19
38	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. Journal of Biomechanics, 2009, 42, 1049-1053.	2.1	18
39	Correlation between tooth size-arch length discrepancy and interradicular distances measured on CBCT and panoramic radiograph: an evaluation for miniscrew insertion. Dental Press Journal of Orthodontics, 2018, 23, 39.e1-39.e13.	0.9	18
40	Treatment effect of bone-anchored maxillary protraction in growing patients compared to controls: a systematic review with meta-analysis. European Journal of Orthodontics, 2021, 43, 51-68.	2.4	18
41	No association between types of unilateral mandibular condylar abnormalities and facial asymmetry in orthopedic-treated patients with juvenile idiopathic arthritis. American Journal of Orthodontics and Dentofacial Orthopedics, 2018, 153, 214-223.	1.7	17
42	Prevalence of Sleep-Disordered Breathing in Children Referring for First Dental Examination. A Multicenter Cross-Sectional Study Using Pediatric Sleep Questionnaire. International Journal of Environmental Research and Public Health, 2020, 17, 8460.	2.6	17
43	Analysis of stress and strain around orthodontically loaded implants: an animal study. International Journal of Oral and Maxillofacial Implants, 2007, 22, 213-25.	1.4	17
44	Orthodontically induced root resorption: A critical analysis of finite element studies' input and output. American Journal of Orthodontics and Dentofacial Orthopedics, 2021, 159, 779-789.	1.7	15
45	Influence of buccal cusp reduction when using porcelain laminate veneers in premolars. A comparative study using 3-D finite element analysis. Journal of Prosthodontic Research, 2011, 55, 221-227.	2.8	14
46	Three-Dimensional Finite Element Analysis of the Mandible and Temporomandibular Joint on Simulated Occlusal Forces before and after Vertical Ramus Elongation by Distraction Osteogenesis. Journal of Craniofacial Surgery, 2005, 16, 421-429.	0.7	13
47	A Danish version of the oral health impact profile-14 (OHIP-14): translation and cross-cultural adaptation. BMC Oral Health, 2020, 20, 254.	2.3	12
48	Novel three-dimensional methods to analyze the morphology of the nasal cavity and pharyngeal airway. Angle Orthodontist, 2021, 91, 320-328.	2.4	12
49	Average interradicular sites for miniscrew insertion: should dental crowding be considered?. Dental Press Journal of Orthodontics, 2017, 22, 90-97.	0.9	11
50	Two-Year Postoperative Upper Airway Cone-Beam Computed Tomographic Outcomes Based on a Verified Upper Airway Analysis Following Bimaxillary Orthognathic Surgery. Journal of Oral and Maxillofacial Surgery, 2019, 77, 1435-1445.	1.2	11
51	Novel 3-D Analysis for the Assessment of Cleft Dimensions on Digital Models of Infants With Unilateral Cleft Lip and Palate. Cleft Palate-Craniofacial Journal, 2019, 56, 127-133.	0.9	10
52	In Vitro Comparison of Different Invisalign® and 3Shape® Attachment Shapes to Control Premolar Rotation. Frontiers in Bioengineering and Biotechnology, 2022, 10, 840622.	4.1	9
53	Osteonal mineralization patterns in cortical bone studied by synchrotron-radiation-based computed microtomography and scanning acoustic microscopy. , 2004, 5535, 143.		8
54	Interradicular sites and cortical bone thickness for miniscrew insertion: A systematic review with meta-analysis. American Journal of Orthodontics and Dentofacial Orthopedics, 2020, 158, 783-798.e20.	1.7	8

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55	A semi-automatic approach for longitudinal 3D upper airway analysis using voxel-based registration. Dentomaxillofacial Radiology, 2022, 51, 20210253.	2.7	8
56	Indirect vs direct bonding of mandibular fixed retainers in orthodontic patients: Comparison of retainer failures and posttreatment stability. A 5-year follow-up of a single-center randomized controlled trial. American Journal of Orthodontics and Dentofacial Orthopedics, 2022, 162, 152-161.e1.	1.7	8
57	Multi-level synchrotron radiation-based microtomography of the dental alveolus and its consequences for orthodontics. Journal of Biomechanics, 2015, 48, 801-806.	2.1	7
58	Palatal morphology in unilateral cleft lip and palate patients: Association with infant cleft dimensions and timing of hard palate repair. Orthodontics and Craniofacial Research, 2019, 22, 270-280.	2.8	7
59	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. Cleft Palate-Craniofacial Journal, 2020, 57, 378-388.	0.9	7
60	Can maxilla and mandible bone quality explain differences in orthodontic mini-implant failures?. Biomaterial Investigations in Dentistry, 2021, 8, 1-10.	1.8	7
61	Does rapid maxillary expansion enlarge the nasal cavity and pharyngeal airway? A threeâ€dimensional assessment based on validated analyses. Orthodontics and Craniofacial Research, 2021, 24, 124-133.	2.8	7
62	Individualization of the threeâ€piece base arch mechanics according to various periodontal support levels: A finite element analysis. Orthodontics and Craniofacial Research, 2021, 24, 214-221.	2.8	6
63	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?. American Journal of Orthodontics and Dentofacial Orthopedics, 2021, 159, 125-132.	1.7	6
64	Validity and Reproducibility of the Peer Assessment Rating Index Scored on Digital Models Using a Software Compared with Traditional Manual Scoring. Journal of Clinical Medicine, 2021, 10, 1646.	2.4	6
65	Threeâ€dimensional soft tissue changes in orthodontic extraction and nonâ€extraction patients: A prospective study. Orthodontics and Craniofacial Research, 2021, 24, 181-192.	2.8	6
66	3D landmarks of Craniofacial Imaging and subsequent considerations on superimpositions in orthodontics—The Aarhus perspective. Orthodontics and Craniofacial Research, 2019, 22, 21-29.	2.8	5
67	Restricted upper airway dimensions in patients with dentofacial deformity from juvenile idiopathic arthritis. Pediatric Rheumatology, 2022, 20, 32.	2.1	5
68	A community detection analysis of malocclusion classes from orthodontics and upper airway data. Orthodontics and Craniofacial Research, 2021, , .	2.8	4
69	Does quality of orthodontic treatment outcome influence postâ€treatment stability? A retrospective study investigating shortâ€term stability 2 years after orthodontic treatment with fixed appliances and in the presence of fixed retainers. Orthodontics and Craniofacial Research, 2022, 25, 368-376.	2.8	4
70	Comparison of conventional and synchrotron-radiation-based microtomography of bone around dental implants. , 2004, , .		3
71	Finite Element Analysis in Dentistry. From Biomaterials Towards Medical Devices, 2018, , 67-89.	0.0	3
72	Root repair after damage due to screw insertion for orthodontic miniplate placement. Journal of Clinical and Experimental Dentistry, 2019, 11, 0-0.	1.2	3

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73	Impact of Treatment with Full-fixed Orthodontic Appliances on the Periodontium and the Composition of the Subgingival Microbiota. Journal of the International Academy of Periodontology, 2020, 22, 174-181.	0.7	3
74	Microtomography of the human tooth-alveolar bone complex. , 2006, , .		2
75	Effect of the software binning and averaging data during microcomputed tomography image acquisition. Scientific Reports, 2019, 9, 10562.	3.3	2
76	Infrared Light-Emitting Diode (LED) Effects on Orthodontic Tooth Movement. Brazilian Dental Journal, 2019, 30, 410-416.	1.1	2
77	An in vitro assessment of the influences of different wire materials and bracket systems when correcting dental crowding. Journal of Materials Science: Materials in Medicine, 2020, 31, 108.	3.6	2
78	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. Acta Odontologica Scandinavica, 2022, 80, 65-73.	1.6	2
79	Association between Rapid Maxillary Expansion and Nocturnal Enuresis in Children: A Pilot Study for a Randomized Controlled Clinical Trial. Applied Sciences (Switzerland), 2020, 10, 9025.	2.5	1
80	Mandibular Teeth Movement Variations in Tipping Scenario: A Finite Element Study on Several Patients. , 2021, , 31-43.		1
81	How efficient is customized lingual orthodontics? an assessment of treatment outcome. Orthodontics and Craniofacial Research, 2021, , .	2.8	1
82	Translation and cross-cultural adaptation of the sleep-related breathing disorder scale of the Pediatric Sleep Questionnaire into Danish language. Acta Odontologica Scandinavica, 2022, 80, 411-418.	1.6	1
83	Computer-aided design and manufacture of a milled Twin Block: workflow and use in a clinical case. Have we entered the digital era?. AJO-DO Clinical Companion, 2022, , .	0.3	1
84	FE ANALYSIS OF STRESS AND STRAIN AROUND ORTHODONTICALLY LAODED IMPLANTS: AN ANIMAL STUDY. Journal of Biomechanics, 2008, 41, S251.	2.1	0
85	Visualizing the root-PDL-bone interface using high-resolution microtomography. , 2008, , .		0
86	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. Angle Orthodontist, 2013, 83, 1105-1105.	2.4	0
87	The clinical benefits of orthodontic treatment to pathologically migrated teeth: A systematic review. Australasian Orthodontic Journal, 2019, 35, 184-194.	0.3	0
88	Cone beam-computertomografi – fremtidens rÃ,ntgenundersÃ,gelse. Aktuel Nordisk Odontologi, 2009, 34, 105-122.	0.1	0
89	Hvornår er CT-skanning et væsentligt diagnostisk hjælpemiddel?. Aktuel Nordisk Odontologi, 2012, 37, 87-114.	0.1	0
90	Bonding Failures of Lingual Orthodontic Brackets: A Retrospective Study Comparing Lingual Brackets with KommonBase Extensions, to Customized Lingual Brackets. Applied Sciences (Switzerland), 2022, 12, 4928.	2.5	0