

Paolo Maria Cattaneo

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,674
citations

218662

26
h-index

197805

49
g-index

96
all docs

96
docs citations

96
times ranked

2216
citing authors

#	ARTICLE	IF	CITATIONS
1	The Finite Element Method: a Tool to Study Orthodontic Tooth Movement. <i>Journal of Dental Research</i> , 2005, 84, 428-433.	5.2	320
2	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.	2.8	185
3	Association of orthodontic force system and root resorption: A systematic review. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015, 147, 610-626.	1.7	181
4	Two- versus three-dimensional imaging in subjects with unerupted maxillary canines. <i>European Journal of Orthodontics</i> , 2011, 33, 344-349.	2.4	133
5	Comparison between conventional and cone-beam computed tomography-generated cephalograms. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2008, 134, 798-802.	1.7	103
6	Strains in periodontal ligament and alveolar bone associated with orthodontic tooth movement analyzed by finite element. <i>Orthodontics and Craniofacial Research</i> , 2009, 12, 120-128.	2.8	103
7	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, 203-212.	1.8	85
8	Validation of a musculo-skeletal model of the mandible and its application to mandibular distraction osteogenesis. <i>Journal of Biomechanics</i> , 2007, 40, 1192-1201.	2.1	84
9	Transversal maxillary dentoalveolar 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, 222-233.	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. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2008, 133, 681-689.	1.7	77
11	The relationship between upper airways and craniofacial morphology studied in 3D CBCT study. <i>Orthodontics and Craniofacial Research</i> , 2015, 18, 1-11.	2.8	72
12	The transfer of occlusal forces through the maxillary molars: A finite element study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2003, 123, 367-373.	1.7	69
13	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.	1.7	60
14	Microcracks in the alveolar bone following orthodontic tooth movement: a morphological and morphometric study. <i>European Journal of Orthodontics</i> , 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. <i>Cleft Palate-Craniofacial Journal</i> , 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. <i>Journal of Prosthetic Dentistry</i> , 2011, 105, 14-20.	2.8	42
17	Reduced mandibular growth in experimental arthritis in the temporomandibular joint treated with intra-articular corticosteroid. <i>European Journal of Orthodontics</i> , 2008, 30, 111-119.	2.4	41
18	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.	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. <i>Journal of Oral & Maxillofacial Research</i> , 2016, 7, e1.	1.0	40
20	The Importance of Force Levels in Relation to Tooth Movement. <i>Seminars in Orthodontics</i> , 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. <i>Angle Orthodontist</i> , 2018, 88, 748-756.	2.4	37
22	An evaluation of insertion sites for mini-implants. <i>Angle Orthodontist</i> , 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. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 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. <i>European Journal of Orthodontics</i> , 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. <i>Journal of Craniofacial Surgery</i> , 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. <i>Cleft Palate-Craniofacial Journal</i> , 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. <i>Angle Orthodontist</i> , 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. <i>World Journal of Orthodontics</i> , 2008, 9, 269-82.	0.2	28
29	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.	2.8	26
30	Synchrotron radiation-based microtomography of alveolar support tissues. <i>Orthodontics and Craniofacial Research</i> , 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. <i>Angle Orthodontist</i> , 2013, 83, 691-697.	2.4	25
32	Corticotomy affects both the modus and magnitude of orthodontic tooth movement. <i>European Journal of Orthodontics</i> , 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?. <i>Current Osteoporosis Reports</i> , 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. <i>PLoS ONE</i> , 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. <i>Orthodontics and Craniofacial Research</i> , 2020, 23, 102-109.	2.8	22
36	Which factors influence orthodontists in their decision to extract? A questionnaire survey. <i>Journal of Clinical and Experimental Dentistry</i> , 2019, 11, e432-e438.	1.2	21

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37	A new simple three-dimensional method to characterize upper airway in orthognathic surgery patient. <i>Dentomaxillofacial Radiology</i> , 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 osteogenesisâ€”A simulation study. <i>Journal of Biomechanics</i> , 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. <i>Dental Press Journal of Orthodontics</i> , 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. <i>European Journal of Orthodontics</i> , 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. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 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. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8460.	2.6	17
43	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.	1.4	17
44	Orthodontically induced root resorption: A critical analysis of finite element studiesâ€™ input and output. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 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. <i>Journal of Prosthodontic Research</i> , 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. <i>Journal of Craniofacial Surgery</i> , 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. <i>BMC Oral Health</i> , 2020, 20, 254.	2.3	12
48	Novel three-dimensional methods to analyze the morphology of the nasal cavity and pharyngeal airway. <i>Angle Orthodontist</i> , 2021, 91, 320-328.	2.4	12
49	Average interradicular sites for miniscrew insertion: should dental crowding be considered?. <i>Dental Press Journal of Orthodontics</i> , 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. <i>Journal of Oral and Maxillofacial Surgery</i> , 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. <i>Cleft Palate-Craniofacial Journal</i> , 2019, 56, 127-133.	0.9	10
52	In Vitro Comparison of Different Invisalign® and 3Shape® Attachment Shapes to Control Premolar Rotation. <i>Frontiers in Bioengineering and Biotechnology</i> , 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. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 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. <i>Dentomaxillofacial Radiology</i> , 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. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 162, 152-161.e1.	1.7	8
57	Multi-level synchrotron radiation-based microtomography of the dental alveolus and its consequences for orthodontics. <i>Journal of Biomechanics</i> , 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. <i>Orthodontics and Craniofacial Research</i> , 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. <i>Cleft Palate-Craniofacial Journal</i> , 2020, 57, 378-388.	0.9	7
60	Can maxilla and mandible bone quality explain differences in orthodontic mini-implant failures?. <i>Biomaterial Investigations in Dentistry</i> , 2021, 8, 1-10.	1.8	7
61	Does rapid maxillary expansion enlarge the nasal cavity and pharyngeal airway? A three-dimensional assessment based on validated analyses. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 124-133.	2.8	7
62	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.	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?. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 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. <i>Journal of Clinical Medicine</i> , 2021, 10, 1646.	2.4	6
65	Three-dimensional soft tissue changes in orthodontic extraction and non-extraction patients: A prospective study. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 181-192.	2.8	6
66	3D landmarks of Craniofacial Imaging and subsequent considerations on superimpositions in orthodontics—The Aarhus perspective. <i>Orthodontics and Craniofacial Research</i> , 2019, 22, 21-29.	2.8	5
67	Restricted upper airway dimensions in patients with dentofacial deformity from juvenile idiopathic arthritis. <i>Pediatric Rheumatology</i> , 2022, 20, 32.	2.1	5
68	A community detection analysis of malocclusion classes from orthodontics and upper airway data. <i>Orthodontics and Craniofacial Research</i> , 2021, , .	2.8	4
69	Does quality of orthodontic treatment outcome influence post-treatment stability? A retrospective study investigating short-term stability 2 years after orthodontic treatment with fixed appliances and in the presence of fixed retainers. <i>Orthodontics and Craniofacial Research</i> , 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. <i>From Biomaterials Towards Medical Devices</i> , 2018, , 67-89.	0.0	3
72	Root repair after damage due to screw insertion for orthodontic miniplate placement. <i>Journal of Clinical and Experimental Dentistry</i> , 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. <i>Journal of the International Academy of Periodontology</i> , 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. <i>Scientific Reports</i> , 2019, 9, 10562.	3.3	2
76	Infrared Light-Emitting Diode (LED) Effects on Orthodontic Tooth Movement. <i>Brazilian Dental Journal</i> , 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. <i>Journal of Materials Science: Materials in Medicine</i> , 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. <i>Acta Odontologica Scandinavica</i> , 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. <i>Applied Sciences (Switzerland)</i> , 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. <i>Orthodontics and Craniofacial Research</i> , 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. <i>Acta Odontologica Scandinavica</i> , 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?. <i>AJO-DO Clinical Companion</i> , 2022, , .	0.3	1
84	FE ANALYSIS OF STRESS AND STRAIN AROUND ORTHODONTICALLY LAODED IMPLANTS: AN ANIMAL STUDY. <i>Journal of Biomechanics</i> , 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; <i>The Angle Orthodontist</i> , 2013;83(4)691â€“697. <i>Angle Orthodontist</i> , 2013, 83, 1105-1105.	2.4	0
87	The clinical benefits of orthodontic treatment to pathologically migrated teeth: A systematic review. <i>Australasian Orthodontic Journal</i> , 2019, 35, 184-194.	0.3	0
88	Cone beam-computertomografi – fremtidens rÃntgenundersÃgelse. <i>Aktuel Nordisk Odontologi</i> , 2009, 34, 105-122.	0.1	0
89	HvornÃr er CT-skanning et vÃsentligt diagnostisk hjÃlpemiddel?. <i>Aktuel Nordisk Odontologi</i> , 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. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4928.	2.5	0