Paolo Maria Cattaneo

List of Publications by Year in Descending Order

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	Translation and cross-cultural adaptation of the sleep-related breathing disorder scale of the Pediatric Sleep Questionnaire into Danish language.. *Acta Odontologica Scandinavica*, **2022**, 1-8	2.2	0
80	Comparison of Different Invisalign and 3Shape Attachment Shapes to Control Premolar Rotation.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 840622	5.8	2
79	Restricted upper airway dimensions in patients with dentofacial deformity from juvenile idiopathic arthritis.. *Pediatric Rheumatology*, **2022**, 20, 32	3.5	0
78	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	2.6	
77	A semi-automatic approach for longitudinal 3D upper airway analysis using voxel-based registration. *Dentomaxillofacial Radiology*, **2021**, 20210253	3.9	1
76	Surgically Assisted Tooth Movement **2021**, 238-264		
75	Orthodontically induced root resorption: A critical analysis of finite element studiesTinput and output. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2021**, 159, 779-789	2.1	4
74	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*, **2021**, 1-9	2.2	1
73	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	3.3	10
72	Individualization of the three-piece base arch mechanics according to various periodontal support levels: A finite element analysis. *Orthodontics and Craniofacial Research*, **2021**, 24, 214-221	3	3
71	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	2.1	0
70	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	3.3	5
69	Can maxilla and mandible bone quality explain differences in orthodontic mini-implant failures?. *Biomaterial Investigations in Dentistry*, **2021**, 8, 1-9	2	2
68	Mandibular Teeth Movement Variations in Tipping Scenario: A Finite Element Study on Several Patients **2021**, 31-43		1
67	The clinical benefits of orthodontic treatment to pathologically migrated teeth: A systematic review. *Australasian Orthodontic Journal*, **2021**, 35, 184-194		
66	Orthodontic Tooth Movement Studied by Finite Element Analysis: an Update. What Can We Learn from These Simulations?. *Current Osteoporosis Reports*, **2021**, 19, 175-181	5.4	8
65	Novel three-dimensional methods to analyze the morphology of the nasal cavity and pharyngeal airway. *Angle Orthodontist*, **2021**, 91, 320-328	2.6	1

64	Tissue Reaction to Orthodontic Force Systems. Are we in Control? **2021**, 129-138		1
63	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	2.6	0
62	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	4.5	
61	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. *Orthodontics and Craniofacial Research*, **2020**, 23, 250-276	3	15
60	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	3	10
59	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	2.1	2
58	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,	4.6	4
57	A Danish version of the oral health impact profile-14 (OHIP-14): translation and cross-cultural adaptation. *BMC Oral Health*, **2020**, 20, 254	3.7	2
56	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	1.9	1
55	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	0.9	2
54	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	3	6
53	3D landmarks of Craniofacial Imaging and subsequent considerations on superimpositions in orthodontics-The Aarhus perspective. *Orthodontics and Craniofacial Research*, **2019**, 22 Suppl 1, 21-29	3	1
52	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	1.8	4
51	Which factors influence orthodontists in their decision to extract? A questionnaire survey. *Journal of Clinical and Experimental Dentistry*, **2019**, 11, e432-e438	1.4	8
50	Effect of the software binning and averaging data during microcomputed tomography image acquisition. *Scientific Reports*, **2019**, 9, 10562	4.9	1
49	Infrared Light-Emitting Diode (LED) Effects on Orthodontic Tooth Movement. *Brazilian Dental Journal*, **2019**, 30, 410-416	1.9	1
48	Root repair after damage due to screw insertion for orthodontic miniplate placement. *Journal of Clinical and Experimental Dentistry*, **2019**, 11, e1133-e1138	1.4	2
47	Three-dimensional prediction of roots position through cone-beam computed tomography scans-digital model superimposition: A novel method. *Orthodontics and Craniofacial Research*, **2019**, 22, 16-23	3	16

46	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	1.9	8
45	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	2.1	14
44	Corticotomy affects both the modus and magnitude of orthodontic tooth movement. *European Journal of Orthodontics*, **2018**, 40, 107-112	3.3	15
43	Assessment of dentofacial growth deviation in juvenile idiopathic arthritis: Reliability and validity of three-dimensional morphometric measures. *PLoS ONE*, **2018**, 13, e0194177	3.7	17
42	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	2.6	19
41	Finite Element Analysis in Dentistry. *From Biomaterials Towards Medical Devices*, **2018**, 67-89		1
40	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	1.3	11
39	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	2.6	16
38	A new simple three-dimensional method to characterize upper airway in orthognathic surgery patient. *Dentomaxillofacial Radiology*, **2017**, 46, 20170042	3.9	12
37	Computer-aided design and manufacture of hyrax devices: Can we really go digital?. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2017**, 152, 870-874	2.1	36
36	Average interradicular sites for miniscrew insertion: should dental crowding be considered?. *Dental Press Journal of Orthodontics*, **2017**, 22, 90-97	1.3	7
35	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	2.1	27
34	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	1.9	18
33	A novel semiautomatic technique for volumetric assessment of the alveolar bone defect using cone beam computed tomography. *Cleft Palate-Craniofacial Journal*, **2015**, 52, e47-55	1.9	33
32	Association of orthodontic force system and root resorption: A systematic review. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2015**, 147, 610-26	2.1	126
31	Multi-level synchrotron radiation-based microtomography of the dental alveolus and its consequences for orthodontics. *Journal of Biomechanics*, **2015**, 48, 801-6	2.9	7
30	The relationship between upper airways and craniofacial morphology studied in 3D. A CBCT study. *Orthodontics and Craniofacial Research*, **2015**, 18, 1-11	3	51
29	Characterization of the Upper Airway Morphology and Its Changes in the Apneic Patient Using Cone Beam Computed Tomography **2014**, 273-291		2

28	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	2.6	
27	An evaluation of insertion sites for mini-implants: a micro - CT study of human autopsy material. *Angle Orthodontist*, **2013**, 83, 222-9	2.6	27
26	Labio-lingual root control of lower anterior teeth and canines obtained by active and passive self-ligating brackets. *Angle Orthodontist*, **2013**, 83, 691-7	2.6	16
25	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, 221-7	4.3	8
24	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. *Orthodontics and Craniofacial Research*, **2011**, 14, 222-33	3	63
23	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	4	34
22	Two- versus three-dimensional imaging in subjects with unerupted maxillary canines. *European Journal of Orthodontics*, **2011**, 33, 344-9	3.3	103
21	An analysis of different approaches to the assessment of upper airway morphology: a CBCT study. *Orthodontics and Craniofacial Research*, **2010**, 13, 96-105	3	147
20	Strains in periodontal ligament and alveolar bone associated with orthodontic tooth movement analyzed by finite element. *Orthodontics and Craniofacial Research*, **2009**, 12, 120-8	3	79
19	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, 1049-53	2.9	15
18	Reduced mandibular growth in experimental arthritis in the temporomandibular joint treated with intra-articular corticosteroid. *European Journal of Orthodontics*, **2008**, 30, 111-9	3.3	36
17	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, 681-9	2.1	56
16	Comparison between conventional and cone-beam computed tomography-generated cephalograms. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2008**, 134, 798-802	2.1	83
15	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		27
14	Validation of a musculo-skeletal model of the mandible and its application to mandibular distraction osteogenesis. *Journal of Biomechanics*, **2007**, 40, 1192-201	2.9	66
13	The Importance of Force Levels in Relation to Tooth Movement. *Seminars in Orthodontics*, **2007**, 13, 220-233	2.1	30
12	Analysis of stress and strain around orthodontically loaded implants: an animal study. *International Journal of Oral and Maxillofacial Implants*, **2007**, 22, 213-25	2.8	15
11	Microtomography of the human tooth-alveolar bone complex **2006**,		2

10	Synchrotron radiation-based microtomography of alveolar support tissues. *Orthodontics and Craniofacial Research*, **2006**, 9, 199-205	3	17
9	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, 157-65	2.1	25
8	The finite element method: a tool to study orthodontic tooth movement. *Journal of Dental Research*, **2005**, 84, 428-33	8.1	245
7	Three-dimensional finite element analysis of the mandible and temporomandibular joint during vertical ramus elongation by distraction osteogenesis. *Journal of Craniofacial Surgery*, **2005**, 16, 586-93	1.2	24
6	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, 421-9	1.2	11
5	Microcracks in the alveolar bone following orthodontic tooth movement: a morphological and morphometric study. *European Journal of Orthodontics*, **2004**, 26, 459-67	3.3	36
4	Comparison of conventional and synchrotron-radiation-based microtomography of bone around dental implants **2004**,		2
3	Osteonal mineralization patterns in cortical bone studied by synchrotron-radiation-based computed microtomography and scanning acoustic microscopy **2004**, 5535, 143		5
2	The transfer of occlusal forces through the maxillary molars: a finite element study. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2003**, 123, 367-73	2.1	57
1	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, 203-13	1.7	69