Thomas J J Maal

List of Publications by Year
in descending order

122	4,440	94433 37	138484 58
papers	citations	h-index	g-index

124	124	124	3834
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Digital three-dimensional image fusion processes for planning and evaluating orthodontics and orthognathic surgery. A systematic review. International Journal of Oral and Maxillofacial Surgery, 2011, 40, 341-352.	1.5	239
2	Evaluation of reproducibility and reliability of 3D soft tissue analysis using 3D stereophotogrammetry. International Journal of Oral and Maxillofacial Surgery, 2009, 38, 267-273.	1.5	187
3	Accuracy and Reproducibility of Voxel Based Superimposition of Cone Beam Computed Tomography Models on the Anterior Cranial Base and the Zygomatic Arches. PLoS ONE, 2011, 6, e16520.	2.5	122
4	Registration of 3-Dimensional Facial Photographs for Clinical Use. Journal of Oral and Maxillofacial Surgery, 2010, 68, 2391-2401.	1.2	118
5	The accuracy of matching three-dimensional photographs with skin surfaces derived from cone-beam computed tomography. International Journal of Oral and Maxillofacial Surgery, 2008, 37, 641-646.	1.5	112
6	The use of cone beam CT for the removal of wisdom teeth changes the surgical approach compared with panoramic radiography: a pilot study. International Journal of Oral and Maxillofacial Surgery, 2011, 40, 834-839.	1.5	104
7	Evidence supporting the use of cone-beam computed tomography in orthodontics. Journal of the American Dental Association, 2012, 143, 241-252.	1.5	94
8	A New 3D Tool for Assessing the Accuracy of Bimaxillary Surgery: The OrthoGnathicAnalyser. PLoS ONE, 2016, 11, e0149625.	2.5	94
9	Integration of digital dental casts in 3-dimensional facial photographs. American Journal of Orthodontics and Dentofacial Orthopedics, 2008, 134, 820-826.	1.7	90
10	A comparison between 2D and 3D cephalometry on CBCT scans of human skulls. International Journal of Oral and Maxillofacial Surgery, 2010, 39, 156-160.	1.5	85
11	3D Stereophotogrammetric assessment of pre- and postoperative volumetric changes in the cleft lip and palate nose. International Journal of Oral and Maxillofacial Surgery, 2010, 39, 534-540.	1.5	82
12	Toward Holographic-Guided Surgery. Surgical Innovation, 2019, 26, 86-94.	0.9	79
13	Three-Dimensional Imaging of the Face: A Comparison Between Three Different Imaging Modalities. Aesthetic Surgery Journal, 2018, 38, 579-585.	1.6	74
14	3D analysis of condylar remodelling and skeletal relapse following bilateral sagittal split advancement osteotomies. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 462-468.	1.7	73
15	Further delineation of the KBG syndrome phenotype caused by ANKRD11 aberrations. European Journal of Human Genetics, 2015, 23, 1176-1185.	2.8	67
16	Cone-beam CT in the assessment of mandibular invasion by oral squamous cell carcinoma: results of the preliminary study. International Journal of Oral and Maxillofacial Surgery, 2010, 39, 436-439.	1.5	63
17	3D evaluation of the lingual fracture line after a bilateral sagittal split osteotomy of the mandible. International Journal of Oral and Maxillofacial Surgery, 2009, 38, 1244-1249.	1.5	62
18	Variation of the face in rest using 3D stereophotogrammetry. International Journal of Oral and Maxillofacial Surgery, 2011, 40, 1252-1257.	1.5	61

#	ARTICLE	IF	CITATIONS
19	Clinical relevance of cone beam computed tomography in mandibular third molar removal: A multicentre, randomised, controlled trial. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 2158-2167.	1.7	60
20	Orbital volume analysis: validation of a semi-automatic software segmentation method. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 11-18.	2.8	58
21	A comparison between twoâ€dimensional and threeâ€dimensional cephalometry on frontal radiographs and on cone beam computed tomography scans of human skulls. European Journal of Oral Sciences, 2009, 117, 300-305.	1.5	56
22	Three dimensional evaluation of facial asymmetry after mandibular reconstruction: validation of a new method using stereophotogrammetry. International Journal of Oral and Maxillofacial Surgery, 2013, 42, 19-25.	1.5	56
23	A Novel Region-Growing Based Semi-Automatic Segmentation Protocol for Three-Dimensional Condylar Reconstruction Using Cone Beam Computed Tomography (CBCT). PLoS ONE, 2014, 9, e111126.	2.5	54
24	Comparison of 3-Dimensional and Augmented Reality Kidney Models With Conventional Imaging Data in the Preoperative Assessment of Children With Wilms Tumors. JAMA Network Open, 2019, 2, e192633.	5.9	53
25	Three-dimensional prospective evaluation of tooth-borne and bone-borne surgically assisted rapid maxillary expansion. Journal of Cranio-Maxillo-Facial Surgery, 2012, 40, 757-762.	1.7	52
26	The clinical relevance of bifid and trifid mandibular canals. Oral and Maxillofacial Surgery, 2012, 16, 147-151.	1.3	51
27	Reproducibility of 3 Different Tracing Methods Based on Cone Beam Computed Tomography in Determining the Anatomical Position of the Mandibular Canal. Journal of Oral and Maxillofacial Surgery, 2010, 68, 811-817.	1.2	49
28	Accuracy of three-dimensional soft tissue simulation in bimaxillary osteotomies. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 329-335.	1.7	48
29	Toward a higher accuracy in orthognathic surgery by using intraoperative computer navigation, 3D surgical guides, and/or customized osteosynthesis plates: A systematic review. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 2108-2119.	1.7	46
30	Volumetric changes of the nose and nasal airway 2Âyears after toothâ€borne and boneâ€borne surgically assisted rapid maxillary expansion. European Journal of Oral Sciences, 2013, 121, 450-456.	1.5	45
31	Three-dimensional changes in nose and upper lip volume after orthognathic surgery. International Journal of Oral and Maxillofacial Surgery, 2015, 44, 83-89.	1.5	45
32	A Clinically Relevant Accuracy Study of Computer-Planned Implant Placement in the Edentulous Maxilla Using Mucosa-Supported Surgical Templates. Clinical Implant Dentistry and Related Research, 2015, 17, 343-352.	3.7	45
33	Optimized Anisotropic Rotational Invariant Diffusion Scheme on Cone-Beam CT. Lecture Notes in Computer Science, 2010, 13, 221-228.	1.3	43
34	Quantification of facial asymmetry: A comparative study of landmark-based and surface-based registrations. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 1131-1136.	1.7	43
35	A new method for three-dimensional evaluation of the cranial shape and the automatic identification of craniosynostosis using 3D stereophotogrammetry. International Journal of Oral and Maxillofacial Surgery, 2017, 46, 819-826.	1.5	43
36	3D stereophotogrammetry in upper-extremity lymphedema: An accurate diagnostic method. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2016, 69, 241-247.	1.0	42

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37	Predictability in orbital reconstruction: A human cadaver study. PartÂII: Navigation-assisted orbital reconstruction. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 2042-2049.	1.7	41
38	The role of mandibular proximal segment rotations on skeletal relapse and condylar remodelling following bilateral sagittal split advancement osteotomies. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1716-1722.	1.7	39
39	A novel method for fusion of intra-oral scans and cone-beam computed tomography scans for orthognathic surgery planning. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 160-166.	1.7	39
40	An Accuracy Study of Computerâ€Planned Implant Placement in the Augmented Maxilla Using Mucosaâ€Supported Surgical Templates. Clinical Implant Dentistry and Related Research, 2015, 17, 1154-1163.	3.7	38
41	Validation of 3D documentation of palatal soft tissue shape, color, and irregularity with intraoral scanning. Clinical Oral Investigations, 2018, 22, 1303-1309.	3.0	38
42	Validation of a novel semi-automated method for three-dimensional surface rendering of condyles using cone beam computed tomography data. International Journal of Oral and Maxillofacial Surgery, 2013, 42, 1023-1029.	1.5	37
43	Predictability in orbital reconstruction. A human cadaver study, part III: Implant-oriented navigation for optimized reconstruction. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 2050-2056.	1.7	37
44	A clinically relevant validation method for implant placement after virtual planning. Clinical Oral Implants Research, 2013, 24, 1265-1272.	4.5	36
45	Validation of cephalic index measurements in scaphocephaly. Child's Nervous System, 2013, 29, 1007-1014.	1.1	35
46	Eye tracker based study: Perception of faces with a cleft lip and nose deformity. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1620-1625.	1.7	35
47	3-Dimensional CBCT analysis of mandibular asymmetry in unilateral condylar hyperplasia. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 1970-1976.	1.7	35
48	Effects of sterilization on the mechanical properties of poly(methyl methacrylate) based personalized medical devices. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 81, 168-172.	3.1	35
49	Accuracy of virtually 3D planned resection templates in mandibular reconstruction. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 1828-1832.	1.7	34
50	Three-dimensional evaluation of soft tissue changes in the orofacial region after tooth-borne and bone-borne surgically assisted rapid maxillary expansion. Clinical Oral Investigations, 2013, 17, 2017-2024.	3.0	33
51	Three-Dimensional Facial Simulation in Bilateral Sagittal Split Osteotomy: A Validation Study of 100 Patients. Journal of Oral and Maxillofacial Surgery, 2015, 73, 961-970.	1.2	33
52	Maxillofacial prosthetic rehabilitation: A survey on the quality of life. Journal of Prosthetic Dentistry, 2018, 120, 780-786.	2.8	33
53	One year postoperative hard and soft tissue volumetric changes after a BSSO mandibular advancement. International Journal of Oral and Maxillofacial Surgery, 2012, 41, 1137-1145.	1.5	31
54	Regional facial asymmetries in unilateral orofacial clefts. European Journal of Orthodontics, 2015, 37, 636-642.	2.4	31

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55	Nasolabial symmetry and esthetics in cleft lip and palate: analysis of 3D facial images. Clinical Oral Investigations, 2015, 19, 1833-1842.	3.0	31
56	Should Virtual Mirroring Be Used in the Preoperative Planning of an Orbital Reconstruction?. Journal of Oral and Maxillofacial Surgery, 2018, 76, 380-387.	1.2	31
57	A novel semi-automatic segmentation protocol for volumetric assessment of alveolar cleft grafting procedures. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 685-689.	1.7	30
58	Depth accuracy of the RealSense F200: Low-cost 4D facial imaging. Scientific Reports, 2017, 7, 16263.	3.3	30
59	The advantages of advanced computer-assisted diagnostics and three-dimensional preoperative planning on implant position in orbital reconstruction. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 715-721.	1.7	28
60	Oromandibular Reconstruction Using 3D Planned Triple Template Method. Journal of Oral and Maxillofacial Surgery, 2013, 71, e243-e247.	1.2	27
61	Accuracy of Three Software Applications for Breast Volume Calculations from Three-Dimensional Surface Images. Plastic and Reconstructive Surgery, 2018, 142, 858-865.	1.4	27
62	Evaluation of Condylar Resorption Before and After Orthognathic Surgery. Seminars in Orthodontics, 2013, 19, 106-115.	1.4	26
63	Holographic Augmented Reality for DIEP Flap Harvest. Plastic and Reconstructive Surgery, 2021, 147, 25e-29e.	1.4	26
64	Accuracy and Reliability of a Novel Method for Fusion of Digital Dental Casts and Cone Beam Computed Tomography Scans. PLoS ONE, 2013, 8, e59130.	2.5	26
65	Predictability in orbital reconstruction: A human cadaver study. Part I: Endoscopic-assisted orbital reconstruction. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 2034-2041.	1.7	25
66	Single-Step Resection of an Intraosseous Meningioma and Cranial Reconstruction: Technical Note. World Neurosurgery, 2017, 108, 225-229.	1.3	25
67	What is the value of 3D virtual reality in understanding acetabular fractures?. European Journal of Orthopaedic Surgery and Traumatology, 2020, 30, 109-116.	1.4	25
68	Postoperative volume increase of facial soft tissue after percutaneous versus endonasal osteotomy technique in rhinoplasty using 3D stereophotogrammetry. Rhinology, 2011, 49, 121-126.	1.3	25
69	Unilateral Condylar Hyperplasia: A 3-Dimensional Quantification of Asymmetry. PLoS ONE, 2013, 8, e59391.	2.5	24
70	Three-dimensional analysis of condylar remodeling and skeletal relapse following bimaxillary surgery: A 2-year follow-up study. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1311-1318.	1.7	24
71	The use of cone-beam computed tomography for orthodontic purposes. Seminars in Orthodontics, 2013, 19, 196-203.	1.4	23
72	Virtual setup in orthodontics: planning and evaluation. Clinical Oral Investigations, 2020, 24, 2385-2393.	3.0	23

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73	Postoperative socket irrigation with drinking tap water reduces the risk of inflammatory complications following surgical removal of third molars: a multicenter randomized trial. Clinical Oral Investigations, 2017, 21, 71-83.	3.0	22
74	The orbit first! A novel surgical treatment protocol for secondary orbitozygomatic reconstruction. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1043-1050.	1.7	22
75	Immediate implant placement: the fate of the buccal crest. A retrospective cone beam computed tomography study. International Journal of Oral and Maxillofacial Surgery, 2017, 46, 1600-1606.	1.5	22
76	Threeâ€Ðimensional Stereophotogrammetry: A Novel Method in Volumetric Measurement of Infantile Hemangioma. Pediatric Dermatology, 2014, 31, 118-122.	0.9	21
77	Integration of Digital Dental Casts in Cone-Beam Computed Tomography Scans. ISRN Dentistry, 2012, 2012, 1-6.	1.5	21
78	An innovative method of planning and displaying flap volume in DIEP flap breast reconstructions. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2017, 70, 871-875.	1.0	20
79	Integration of digital dental casts in cone beam computed tomography scansâ€”a clinical validation study. Clinical Oral Investigations, 2018, 22, 1215-1222.	3.0	20
80	Applications and limitations of using patient-specific 3D printed molds in autologous breast reconstruction. European Journal of Plastic Surgery, 2018, 41, 571-576.	0.6	20
81	Three-dimensional facial analysis in acromegaly: a novel tool to quantify craniofacial characteristics after long-term remission. Pituitary, 2015, 18, 126-134.	2.9	19
82	Regional facial asymmetries and attractiveness of the face. European Journal of Orthodontics, 2016, 38, 602-608.	2.4	19
83	Implant-oriented navigation in orbital reconstruction. Part 1: technique and accuracy study. International Journal of Oral and Maxillofacial Surgery, 2018, 47, 395-402.	1.5	18
84	Quantitative Assessment of Orbital Implant Position â€“ A Proof of Concept. PLoS ONE, 2016, 11, e0150162.	2.5	18
85	Development and reproducibility of a 3D stereophotogrammetric reference frame for facial soft tissue growth of babies and young children with and without orofacial clefts. International Journal of Oral and Maxillofacial Surgery, 2013, 42, 2-8.	1.5	17
86	Accuracy of Assessing the Mandibular Canal on Cone-Beam Computed Tomography: A Validation Study. Journal of Oral and Maxillofacial Surgery, 2014, 72, 666-671.	1.2	17
87	Validation of the OrthoGnathicAnalyser 2.0â€”3D accuracy assessment tool for bimaxillary surgery and genioplasty. PLoS ONE, 2021, 16, e0246196.	2.5	17
88	Development of a three-dimensional hand model using 3D stereophotogrammetry: Evaluation of landmark reproducibility. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2015, 68, 709-716.	1.0	16
89	Measuring zygomaticomaxillary complex symmetry three-dimensionally with the use of mirroring and surface based matching techniques. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 1706-1712.	1.7	16
90	Comparison of two- and three-dimensional assessment methods of nasolabial appearance in cleft lip and palate patients. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1220-1226.	1.7	15

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91	Improving Lives in Three Dimensions: The Feasibility of 3D Printing for Creating Personalized Medical Aids in a Rural Area of Sierra Leone. American Journal of Tropical Medicine and Hygiene, 2020, 102, 905-909.	1.4	15
92	Accuracy of bone surface size and cortical layer thickness measurements using cone beam computerized tomography. Clinical Oral Implants Research, 2013, 24, 793-797.	4.5	14
93	Reliability and Agreement of 3D Anthropometric Measurements in Facial Palsy Patients Using a Low-Cost 4D Imaging System. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1817-1824.	4.9	14
94	3D stereophotogrammetric analysis of lip and nasal symmetry after primary cheiloseptoplasty in complete unilateral cleft lip repair. Rhinology, 2011, 49, 546-553.	1.3	14
95	A new 3D approach to evaluate facial profile changes following BSSO. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1994-1999.	1.7	13
96	Natural variation of the zygomaticomaxillary complex symmetry in normal individuals. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1927-1933.	1.7	13
97	Optical imaging versus CT and plain radiography to quantify pectus severity: a systematic review and meta-analysis. Journal of Thoracic Disease, 2020, 12, 1475-1487.	1.4	13
98	3D stereophotogrammetry for the assessment of tracheostoma anatomy. Acta Oto-Laryngologica, 2008, 128, 1248-1254.	0.9	12
99	Three-dimensional stereophotogrammetry as an accurate tool for analyzing lymphedema of the hand. JPRAS Open, 2016, 10, 40-46.	0.9	12
100	The effects of surgically assisted rapid maxillary expansion (SARME) on the dental show and chin projection. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1835-1841.	1.7	12
101	An accuracy study of computer-planned implant placement in the augmented maxilla using osteosynthesis screws. International Journal of Oral and Maxillofacial Surgery, 2017, 46, 511-517.	1.5	12
102	Three-dimensional facial development of children with unilateral cleft lip and palate during the first year of life in comparison with normative average faces. PeerJ, 2019, 7, e7302.	2.0	12
103	An analysis of pose in 3D stereophotogrammetry of the breast. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2016, 69, 1609-1613.	1.0	11
104	Three-dimensional evaluation of the alar cinch suture after Le Fort I osteotomy. International Journal of Oral and Maxillofacial Surgery, 2016, 45, 1309-1314.	1.5	11
105	Uniform 3D meshes to establish normative facial averages of healthy infants during the first year of life. PLoS ONE, 2019, 14, e0217267.	2.5	11
106	Strength testing of low-cost 3D-printed transtibial prosthetic socket. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 367-375.	1.8	10
107	Three-dimensional soft tissue analysis of the hand: a novel method to investigate effects of acromegaly. European Journal of Plastic Surgery, 2016, 39, 429-434.	0.6	9
108	Three-Dimensional Imaging of the Chest Wall: A Comparison Between Three Different Imaging Systems. Journal of Surgical Research, 2021, 259, 332-341.	1.6	9

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109	An external neck brace to support the peristomal fixation of an automatic stoma valve (ASV): 3D stereophotogrammetrical assessment. Acta Oto-Laryngologica, 2010, 130, 851-858.	0.9	7
110	The facial effects of tooth wear rehabilitation as measured by 3D stereophotogrammetry. Journal of Dentistry, 2018, 73, 105-109.	4.1	6
111	Photographic documentation and severity quantification of pectus excavatum through three-dimensional optical surface imaging. Journal of Visual Communication in Medicine, 2020, 43, 190-197.	0.6	6
112	Development of a Three-Dimensional Hand Model Using Three-Dimensional Stereophotogrammetry: Assessment of Image Reproducibility. PLoS ONE, 2015, 10, e0136710.	2.5	6
113	Evaluation of the anterior mandibular donor site one year after secondary reconstruction of an alveolar cleft: 3-dimensional analysis using cone-beam computed tomography. British Journal of Oral and Maxillofacial Surgery, 2015, 53, 719-724.	0.8	5
114	3D Facial Effects of a Simulated Dental Buildâ€up. Journal of Esthetic and Restorative Dentistry, 2016, 28, 397-404.	3.8	5
115	Advanced Diagnostics and Three-dimensional Virtual Surgical Planning in Orbital Reconstruction. Atlas of the Oral and Maxillofacial Surgery Clinics of North America, 2021, 29, 79-96.	1.0	5
116	Virtual Incision Pattern Planning using Three-Dimensional Images for Optimization of Syndactyly Surgery. Plastic and Reconstructive Surgery - Global Open, 2018, 6, e1694.	0.6	4
117	Prediction ofÂtheÂFacial Growth Direction is Challenging. Communications in Computer and Information Science, 2021, , 665-673.	0.5	4
118	Reconstruction of a traumatic frontoparietal defect using three-dimensional imaging and lipofilling. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2013, 66, 1295-1297.	1.0	3
119	Does powdering of the dentition increase the accuracy of fusing 3D stereophotographs and digital dental casts. European Journal of Orthodontics, 2016, 38, 440-445.	2.4	3
120	Development and validation of the patient-reported â€œFacial Function Scaleâ€•for facioscapulohumeral muscular dystrophy. Disability and Rehabilitation, 2023, 45, 1530-1535.	1.8	2
121	A semi-automatic three-dimensional technique using a regionalized facial template enables facial growth assessment in healthy children from 1.5 to 5.0 years of age. PeerJ, 0, 10, e13281.	2.0	1
122	Facial improvement after mandibular midline distraction and surgically assisted rapid maxillary expansion. American Journal of Orthodontics and Dentofacial Orthopedics, 2017, 152, 523-542.	1.7	0