

Stephan Christian Mählhenrich

List of Publications by Year in descending order

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66
papers

788
citations

567281

15
h-index

642732

23
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67
all docs

67
docs citations

67
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the accuracy of a mobile and a stationary system for three-dimensional facial scanning. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 1719-1724.	1.7	86
2	The accuracy of computer-assisted primary mandibular reconstruction with vascularized bone flaps: iliac crest bone flap versus osteomyocutaneous fibula flap. <i>Medical Devices: Evidence and Research</i> , 2014, 7, 211.	0.8	35
3	Is the Maxillary Sinus Really Suitable in Sex Determination? A Three-Dimensional Analysis of Maxillary Sinus Volume and Surface Depending on Sex and Dentition. <i>Journal of Craniofacial Surgery</i> , 2015, 26, e723-e726.	0.7	27
4	Intraosseous stability of dental implants in free revascularized fibula and iliac crest bone flaps. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 1935-1939.	1.7	27
5	Fracture patterns after bilateral sagittal split osteotomy of the mandibular ramus according to the Obwegeser/Dal Pont and Hunsuck/Epker modifications. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 762-767.	1.7	27
6	Evaluation of bone resorption in fibula and deep circumflex iliac artery flaps following dental implantation: A three-year follow-up study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 474-478.	1.7	25
7	Computer-Aided Mandibular Reconstruction With Vascularized Iliac Crest Bone Flap and Simultaneous Implant Surgery. <i>Journal of Oral Implantology</i> , 2015, 41, e189-e194.	1.0	24
8	The influence of the chosen in vitro bone simulation model on intraosseous temperatures and drilling times. <i>Scientific Reports</i> , 2019, 9, 11817.	3.3	21
9	Accuracy of orthodontic mini-implants placed at the anterior palate by tooth-borne or gingiva-borne guide support: a cadaveric study. <i>Clinical Oral Investigations</i> , 2019, 23, 4425-4431.	3.0	21
10	Relationship between Implant Geometry and Primary Stability in Different Bony Defects and Variant Bone Densities: An In Vitro Study. <i>Materials</i> , 2020, 13, 4349.	2.9	21
11	Influence of bone density and implant drill diameter on the resulting axial force and temperature development in implant burs and artificial bone: an in vitro study. <i>Oral and Maxillofacial Surgery</i> , 2016, 20, 135-142.	1.3	20
12	Temperature Threshold Values of Bone Necrosis for Thermo-Explantation of Dental Implants – A Systematic Review on Preclinical In Vivo Research. <i>Materials</i> , 2020, 13, 3461.	2.9	20
13	Three-Dimensional Analysis of the Ear Morphology. <i>Aesthetic Plastic Surgery</i> , 2018, 42, 766-773.	0.9	18
14	Three-dimensional effects of pterygomaxillary disconnection during surgically assisted rapid palatal expansion: a cadaveric study. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2016, 121, 602-608.	0.4	17
15	Three-dimensional evaluation of bracket placement accuracy and excess bonding adhesive depending on indirect bonding technique and bracket geometry: an in-vitro study. <i>Head & Face Medicine</i> , 2020, 16, 17.	2.1	17
16	Accuracy of fully guided orthodontic mini-implant placement evaluated by cone-beam computed tomography: a study involving human cadaver heads. <i>Clinical Oral Investigations</i> , 2021, 25, 1299-1306.	3.0	16
17	Influence of Connecting Two Standalone Mobile Three-Dimensional Scanners on Accuracy Comparing with a Standard Device in Facial Scanning. <i>Journal of Oral & Maxillofacial Research</i> , 2016, 7, e4.	1.0	16
18	Three-Dimensional Evaluation of Implant Bed Preparation and the Influence on Primary Implant Stability After Using 2 Different Surgical Techniques. <i>Journal of Oral and Maxillofacial Surgery</i> , 2015, 73, 1723-1732.	1.2	15

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19	Three-dimensional evaluation of the different donor sites of the mandible for autologous bone grafts. <i>Clinical Oral Investigations</i> , 2015, 19, 453-458.	3.0	15
20	Three-dimensional evaluation of the posterior airway space: differences in computed tomography and cone beam computed tomography. <i>Clinical Oral Investigations</i> , 2019, 23, 603-609.	3.0	15
21	Bony contact area and displacement of the temporomandibular joint after high-oblique and bilateral sagittal split osteotomy: a computer-simulated comparison. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2016, 54, 306-311.	0.8	14
22	Evaluation of a novel algorithm for automating virtual surgical planning in mandibular reconstruction using fibula flaps. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2019, 47, 1378-1386.	1.7	14
23	Predicting primary stability of orthodontic mini-implants, according to position, screw size, and bone quality, in the maxilla of aged patients: a cadaveric study. <i>European Journal of Oral Sciences</i> , 2019, 127, 462-471.	1.5	14
24	Introduction of an algorithm for planning of autologous fibular transfer in mandibular reconstruction based on individual bone curvatures. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018, 14, e1894.	2.3	12
25	Three-dimensional evaluation of important surgical landmarks of the face during aging. <i>Annals of Anatomy</i> , 2020, 228, 151435.	1.9	12
26	Postoperative Morbidity and Complications in Elderly Patients after Harvesting of Iliac Crest Bone Grafts. <i>Medicina (Lithuania)</i> , 2021, 57, 759.	2.0	12
27	Influence of setback and advancement osseous genioplasty on facial outcome: A computer-simulated study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 2017-2025.	1.7	11
28	Suitability of virtual plaster models superimposed with the lateral cephalogram for guided paramedian orthodontic mini-implant placement with regard to the bone support. <i>Journal of Orofacial Orthopedics</i> , 2020, 81, 340-349.	1.3	11
29	Effects of different surgical techniques and displacement distances on the soft tissue profile via orthodontic-orthognathic treatment of class II and class III malocclusions. <i>Head & Face Medicine</i> , 2021, 17, 13.	2.1	11
30	Biomechanical properties of CAD/CAM-individualized nickel-titanium lingual retainers: an in vitro study. <i>Journal of Orofacial Orthopedics</i> , 2018, 79, 309-319.	1.3	10
31	Gender-dependent impact of aging on facial proportions. <i>Journal of Orofacial Orthopedics</i> , 2019, 80, 165-173.	1.3	10
32	Influence of bone density, screw size and surgical procedure on orthodontic mini-implant placement – part B: implant stability. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2021, 50, 565-572.	1.5	9
33	Limitations of osseous genioplasty in relation to the displacement distance: a computer-based comparative study. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2015, 120, 670-678.	0.4	8
34	Influence of different surgical concepts for moderate skeletal class II and III treatment on the nasopharyngeal airway space. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2019, 47, 1489-1497.	1.7	8
35	Evaluation of SPECT/CT in the assessment of inflammatory jaw pathologies. <i>European Journal of Radiology</i> , 2020, 125, 108917.	2.6	8
36	Esthetic outcome after nasal reconstruction with paramedian forehead flap and bilobed flap. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 740-746.	1.0	8

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37	Fluoride release from two types of fluoride-containing orthodontic adhesives: Conventional versus resin-modified glass ionomer cements – An in vitro study. PLoS ONE, 2021, 16, e0247716.	2.5	8
38	Impairment of an atrophic mandible by preparation of the implant cavity: a biomechanical study. British Journal of Oral and Maxillofacial Surgery, 2016, 54, 619-624.	0.8	7
39	Changes in the temporomandibular joint position depending on the sagittal osteotomy technique and extent of mandibular movement. International Journal of Oral and Maxillofacial Surgery, 2021, 50, 356-366.	1.5	7
40	Influence of bone density, screw size and surgical procedure on orthodontic mini-implant placement – part A: temperature development. International Journal of Oral and Maxillofacial Surgery, 2021, 50, 555-564.	1.5	7
41	Effect of drain application on postoperative complaints after surgical removal of impacted wisdom teeth – a randomized observer-blinded split-mouth clinical trial. Clinical Oral Investigations, 2021, 25, 345-353.	3.0	7
42	Immediate dental and skeletal influence of distractor position on surgically assisted rapid palatal expansion with or without pterygomaxillary disjunction. International Journal of Oral and Maxillofacial Surgery, 2021, 50, 649-656.	1.5	7
43	Evaluation of different grafting materials for alveolar cleft repair in the context of orthodontic tooth movement in rats. Scientific Reports, 2021, 11, 13586.	3.3	7
44	Microvascular anastomosis techniques using the medical adhesive VIVO and expandable micro-stents in a rat carotid artery model. Annals of Anatomy, 2021, 238, 151782.	1.9	7
45	Augmented Reality-Based Surgery on the Human Cadaver Using a New Generation of Optical Head-Mounted Displays: Development and Feasibility Study. JMIR Serious Games, 2022, 10, e34781.	3.1	7
46	Objective computerised assessment of residual ridge resorption in the human maxilla and maxillary sinus pneumatization. Clinical Oral Investigations, 2020, 24, 3223-3235.	3.0	6
47	Establishing a new alveolar cleft model in rats to investigate the influence of jaw reconstructions on orthodontic tooth movement. Annals of Anatomy, 2021, 236, 151713.	1.9	6
48	Development of root resorption during orthodontic tooth movement after cleft repair using different grafting materials in rats. Clinical Oral Investigations, 2022, 26, 5809-5821.	3.0	6
49	Evaluation of ultrasonic and conventional surgical techniques for genioplasty combined with two different osteosynthesis plates: a cadaveric study. Clinical Oral Investigations, 2017, 21, 2437-2444.	3.0	5
50	Perioperative safety and complications in treatment of oral and maxillofacial surgery patients under general anesthesia with obstructive sleeping disorders. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 1609-1615.	1.7	5
51	Effect of the pterygomaxillary disjunction on surgically assisted rapid palatal expansion in context of orthodontic treatment. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2020, 130, 241-251.	0.4	5
52	Comparison of soft tissue simulations between two planning software programs for orthognathic surgery. Scientific Reports, 2022, 12, 5013.	3.3	5
53	Stress distribution in mandibular donor site after harvesting bone grafts of various sizes from the ascending ramus of a dentate mandible by finite element analysis. Clinical Oral Investigations, 2019, 23, 2265-2271.	3.0	4
54	Ischial tuberosity: new donor site for bone grafts in animal cleft research. Scientific Reports, 2020, 10, 20699.	3.3	4

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55	Biomechanical competence of six different bone screws for reconstructive surgery in three different transplants: Fibular, iliac crest, scapular and artificial bone. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 689-696.	1.7	3
56	Comparison of non-invasive radiographic measurements of soft tissue in the interdental space: a cadaver study. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2017, 55, 482-487.	0.8	3
57	Impact of Wound Closure on the Corrosion Rate of Biodegradable Mg-Ca-Zn Alloys in the Oral Environment. <i>Materials</i> , 2020, 13, 4226.	2.9	3
58	Fluoride Ion Release Characteristics of Fluoride-Containing Varnishes – An In Vitro Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1452.	2.5	3
59	Re: re: Heat generation and drill wear during dental implant site preparation: systematic review. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2017, 55, 985-986.	0.8	2
60	Influence of physician evaluation portals on orthodontist selection by patients. <i>Journal of Orofacial Orthopedics</i> , 2018, 79, 403-411.	1.3	2
61	Biodegradation and Immunological Parameters of Polyurethane-Based Tissue Adhesive in Arterial Microvascular Anastomoses – A Long-Term In Vivo Study. <i>Macromolecular Bioscience</i> , 2022, , 2100451.	4.1	2
62	In vivo and in vitro analysis in a rat model using zoledronate and alendronate medication: microbiological and scanning electron microscopy findings on peri-implant rat tissue. <i>BMC Oral Health</i> , 2021, 21, 672.	2.3	2
63	Anatomical assessment by cone beam computed tomography with the use of lateral cephalograms to analyse the vertical bone height of the anterior palate for orthodontic mini-implants. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 78-86.	2.8	1
64	Cross-sectional analysis of spatial distribution and total amount of harvestable calvarian split bone. <i>Annals of Anatomy</i> , 2021, 234, 151655.	1.9	1
65	Orthodontic treatment of an adolescent with cerebral palsy – A case report. <i>Special Care in Dentistry</i> , 2021, , .	0.8	1
66	Significance of bone morphology and quality on the primary stability of orthodontic mini-implants: in vitro comparison between human bone substitute and artificial bone. <i>Journal of Orofacial Orthopedics</i> , 2022, , 1.	1.3	0