

Ralf Smeets

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

2,560
citations

318942

23
h-index

242451

47
g-index

93
all docs

93
docs citations

93
times ranked

3898
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic review on the effect of inorganic surface coatings in large animal models and meta-analysis on tricalcium phosphate and hydroxyapatite on periimplant bone formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 157-175.	1.6	10
2	Bacterial translocation and microgap formation at a novel conical indexed implant abutment system for single crowns. <i>Clinical Oral Investigations</i> , 2022, 26, 1375-1389.	1.4	3
3	Intraoperative ICG-based fluorescence-angiography in head and neck reconstruction: Predictive value for impaired perfusion of free flaps. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2022, 50, 371-379.	0.7	6
4	A comparative study on the secretion of various cytokines by pulp stem cells at different passages and their neurogenic potential. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2022, 166, 161-167.	0.2	1
5	Osseointegration of Zirconia Implants after UV-Light or Cold Atmospheric Plasma Surface Treatment In Vivo. <i>Materials</i> , 2022, 15, 496.	1.3	5
6	Association between periodontitis and metabolic syndrome in the Hamburg City Health Study. <i>Journal of Periodontology</i> , 2022, 93, 1150-1160.	1.7	8
7	Tolerance of Human Fibroblasts to Benfo-Oxythiamine In Vitro. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4112.	1.2	1
8	Effects of a Novel Cold Atmospheric Plasma Treatment of Titanium on the Proliferation and Adhesion Behavior of Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2022, 23, 420.	1.8	9
9	Horizontal augmentation techniques in the mandible: a systematic review. <i>International Journal of Implant Dentistry</i> , 2022, 8, 23.	1.1	14
10	Success and patient satisfaction of immediately loaded zirconia implants with fixed restorations one year after loading. <i>BMC Oral Health</i> , 2022, 22, .	0.8	8
11	Microstructure, mechanical properties, corrosion resistance and cytocompatibility of WE43 Mg alloy scaffolds fabricated by laser powder bed fusion for biomedical applications. <i>Materials Science and Engineering C</i> , 2021, 119, 111623.	3.8	58
12	Toward Tailoring the Degradation Rate of Magnesium-Based Biomaterials for Various Medical Applications: Assessing Corrosion, Cytocompatibility and Immunological Effects. <i>International Journal of Molecular Sciences</i> , 2021, 22, 971.	1.8	8
13	Cytocompatibility of Bone Substitute Materials and Membranes. <i>In Vivo</i> , 2021, 35, 2035-2040.	0.6	6
14	Temporomandibular Joint Osteoarthritis: Regenerative Treatment by a Stem Cell Containing Advanced Therapy Medicinal Product (ATMP)â€™An In Vivo Animal Trial. <i>International Journal of Molecular Sciences</i> , 2021, 22, 443.	1.8	16
15	Clinical significance of <i>ragA</i> , <i>ragB</i> , and <i>PG0982</i> genes in <i>Porphyromonas gingivalis</i> isolates from periodontitis patients. <i>European Journal of Oral Sciences</i> , 2021, 129, e12776.	0.7	7
16	Silk Fiber-Reinforced Hyaluronic Acid-Based Hydrogel for Cartilage Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3635.	1.8	12
17	In vitro Activity of Antimicrobial Wound Dressings on <i>P. aeruginosa</i> Wound Biofilm. <i>Frontiers in Microbiology</i> , 2021, 12, 664030.	1.5	9
18	Influence of surface condition on the degradation behaviour and biocompatibility of additively manufactured WE43. <i>Materials Science and Engineering C</i> , 2021, 124, 112016.	3.8	29

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19	Towards a flexible electrochemical biosensor fabricated from biocompatible Bombyx mori silk. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113204.	5.3	27
20	Evaluation of the Effects of Human Dental Pulp Stem Cells on the Biological Phenotype of Hypertrophic Keloid Fibroblasts. <i>Cells</i> , 2021, 10, 1803.	1.8	5
21	Does a preoperative cone beam CT reduce complication rates in the surgical removal of complex lower third molars? A retrospective study including 486 cases. <i>Head & Face Medicine</i> , 2021, 17, 33.	0.8	4
22	Improved in vivo osseointegration and degradation behavior of PEO surface-modified WE43 magnesium plates and screws after 6 and 12 months. <i>Materials Science and Engineering C</i> , 2021, 129, 112380.	3.8	37
23	Marginal Adaptation and Microbial Leakage at Conometric Prosthetic Connections for Implant-Supported Single Crowns: An In Vitro Investigation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 881.	1.8	10
24	Compare features of human dental pulp cells cultured from pulp tissues with and without cryopreservation. <i>Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia</i> , 2021, 165, 445-451.	0.2	5
25	Periodontitis, dental plaque, and atrial fibrillation in the Hamburg City Health Study. <i>PLoS ONE</i> , 2021, 16, e0259652.	1.1	12
26	Regenerative Potential of Platelet Concentrate Lysate in Mechanically Injured Cartilage and Matrix-Associated Chondrocyte Implantation In Vitro. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13179.	1.8	3
27	Evaluation of a program for routine implementation of shared decision-making in cancer care: results of a stepped wedge cluster randomized trial. <i>Implementation Science</i> , 2021, 16, 106.	2.5	13
28	Analysis of outcome for elderly patients after microvascular flap surgery: a monocentric retrospective cohort study. <i>Clinical Oral Investigations</i> , 2020, 24, 193-200.	1.4	10
29	Rationale and Design of the Hamburg City Health Study. <i>European Journal of Epidemiology</i> , 2020, 35, 169-181.	2.5	85
30	In Vitro Feasibility Analysis of a New Sutureless Wound-Closure System Based on a Temperature-Regulated Laser and a Transparent Collagen Membrane for Laser Tissue Soldering (LTS). <i>International Journal of Molecular Sciences</i> , 2020, 21, 7104.	1.8	7
31	Expansion of Human Dental Pulp Cells <i>In Vitro</i> Under Different Cryopreservation Conditions. <i>In Vivo</i> , 2020, 34, 2363-2370.	0.6	7
32	Assessing the frequency of deep lingual concavities in 826 posterior mandible sockets. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2020, 48, 1045-1051.	0.7	6
33	Effect of process parameters on additive-free electrospinning of regenerated silk fibroin nonwovens. <i>Bioactive Materials</i> , 2020, 5, 241-252.	8.6	48
34	The Influence of Local Pamidronate Application on Alveolar Dimensional Preservation after Tooth Extraction – An Animal Experimental Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3616.	1.8	7
35	Cytocompatibility of Titanium, Zirconia and Modified PEEK after Surface Treatment Using UV Light or Non-Thermal Plasma. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5596.	1.8	41
36	Improved In Vitro Test Procedure for Full Assessment of the Cytocompatibility of Degradable Magnesium Based on ISO 10993-5/12. <i>International Journal of Molecular Sciences</i> , 2019, 20, 255.	1.8	63

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37	Surface Characteristics of Esthetic Nickel-Titanium and Beta-Titanium Orthodontic Archwires Produced by Plasma Electrolytic Oxidation (PEO) – Primary Results. <i>Materials</i> , 2019, 12, 1403.	1.3	5
38	Production and Characterization of Porous Fibroin Scaffolds for Regenerative Medical Application. <i>In Vivo</i> , 2019, 33, 757-762.	0.6	10
39	The Influence of an Ultrasonic Cleaning Protocol for CAD/CAM Abutment Surfaces on Cell Viability and Inflammatory Response <i>In Vitro</i> and <i>In Vivo</i> . <i>In Vivo</i> , 2019, 33, 689-698.	0.6	9
40	Extent of Inflammation and Foreign Body Reaction to Porous Polyethylene <i>In Vitro</i> and <i>In Vivo</i> . <i>In Vivo</i> , 2019, 33, 337-347.	0.6	10
41	Influence of design and postprocessing parameters on the degradation behavior and mechanical properties of additively manufactured magnesium scaffolds. <i>Acta Biomaterialia</i> , 2019, 98, 23-35.	4.1	101
42	Patient specific glass fiber reinforced composite versus titanium plate: A comparative biomechanical analysis under cyclic dynamic loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 91, 212-219.	1.5	24
43	Influence of UV irradiation and cold atmospheric pressure plasma on zirconia surfaces: an <i>in vitro</i> study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2019, 34, 329-336.	0.6	20
44	Association of Online Learning Behavior and Learning Outcomes for Medical Students: Large-Scale Usage Data Analysis. <i>JMIR Medical Education</i> , 2019, 5, e13529.	1.2	13
45	Changes in surface characteristics of titanium and zirconia after surface treatment with ultraviolet light or non-thermal plasma. <i>European Journal of Oral Sciences</i> , 2018, 126, 126-134.	0.7	57
46	Purification processes of xenogeneic bone substitutes and their impact on tissue reactions and regeneration. <i>International Journal of Artificial Organs</i> , 2018, 41, 789-800.	0.7	42
47	Plasma Electrolytic Oxidation of Titanium Implant Surfaces: Microgroove-Structures Improve Cellular Adhesion and Viability. <i>In Vivo</i> , 2018, 32, 241-247.	0.6	12
48	Cytocompatibility of Direct Laser Interference-patterned Titanium Surfaces for Implants. <i>In Vivo</i> , 2018, 31, 849-854.	0.6	3
49	Group 1 ITI Consensus Report: The influence of implant length and design and medications on clinical and patient-reported outcomes. <i>Clinical Oral Implants Research</i> , 2018, 29, 69-77.	1.9	126
50	Impact of different placement depths on the crestal bone level of immediate versus delayed placed platform-switched implants. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 1139-1146.	0.7	12
51	Evaluation and reduction of magnetic resonance imaging artefacts induced by distinct plates for osseous fixation: an <i>in vitro</i> study @ 3T. <i>Dentomaxillofacial Radiology</i> , 2018, 47, 20170361.	1.3	19
52	Osteonecrosis of the jaw in patients treated with denosumab: A multicenter case series. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 1515-1525.	0.7	50
53	Evaluation of a program for routine implementation of shared decision-making in cancer care: study protocol of a stepped wedge cluster randomized trial. <i>Implementation Science</i> , 2018, 13, 51.	2.5	25
54	Selective laser-melted fully biodegradable scaffold composed of poly(D,L-lactide) for maxillofacial reconstruction: <i>In vitro</i> and <i>In vivo</i> results. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 105, 1216-1231.		13

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55	Lack of evidence for prognostic value of epidermal growth factor receptor intronâ€1 <sc>CA</sc> repeats for oral carcinomas. <i>European Journal of Oral Sciences</i> , 2017, 125, 95-101.	0.7	2
56	Artefacts in multimodal imaging of titanium, zirconium and binary titaniumâ€zirconium alloy dental implants: an <i>in vitro</i> study. <i>Dentomaxillofacial Radiology</i> , 2017, 46, 20160267.	1.3	54
57	Immediate loading of subcrestally placed dental implants in anterior and premolar sites. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 1898-1905.	0.7	11
58	CADâ€CAM plates versus conventional fixation plates for primary mandibular reconstruction: A biomechanical inâ€vitro analysis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 1878-1883.	0.7	51
59	Novel silk protein barrier membranes for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2603-2611.	1.6	17
60	Facial palsy after dental procedures â€ Is viral reactivation responsible?. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 71-75.	0.7	11
61	Accuracy of Bone Measurements in the Vicinity of Titanium Implants in CBCT Data Sets: A Comparison of Radiological and Histological Findings in Minipigs. <i>BioMed Research International</i> , 2017, 2017, 1-9.	0.9	12
62	The feasibility of immediately loading dental implants in edentulous jaws. <i>Journal of Periodontal and Implant Science</i> , 2016, 46, 234.	0.9	7
63	Impact of Dental Implant Surface Modifications on Osseointegration. <i>BioMed Research International</i> , 2016, 2016, 1-16.	0.9	421
64	Approaches to Peripheral Nerve Repair: Generations of Biomaterial Conduits Yielding to Replacing Autologous Nerve Grafts in Craniomaxillofacial Surgery. <i>BioMed Research International</i> , 2016, 2016, 1-18.	0.9	147
65	A novel nonviral gene delivery tool of BMPâ€2 for the reconstitution of criticalâ€size bone defects in rats. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2441-2455.	2.1	22
66	Microvascular stent anastomosis using N-fibroin stents: feasibility, ischemia time, and complications. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2016, 121, e97-e103.	0.2	4
67	Outcome and fewer indications for adjuvant therapy for patients with oral squamous cell carcinomas under standardized tumor board conditions. <i>Journal of Cancer Research and Clinical Oncology</i> , 2016, 142, 505-520.	1.2	3
68	Postoperative bleeding risk for oral surgery under continued rivaroxaban anticoagulant therapy. <i>Clinical Oral Investigations</i> , 2016, 20, 1279-1282.	1.4	37
69	The benefit of abdominal sonography and chest X-ray for staging oral squamous cell carcinomas in stages UICC I and II. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 186-190.	0.7	2
70	Targeting In-Stent-Stenosis with RGD- and CXCL1-Coated Mini-Stents in Mice. <i>PLoS ONE</i> , 2016, 11, e0155829.	1.1	14
71	PEO-generated Surfaces Support Attachment and Growth of Cells In Vitro with No Additional Benefit for Micro-roughness in Sa (0.2-4 Î¼m). <i>In Vivo</i> , 2016, 30, 27-33.	0.6	17
72	Attachment, Viability and Adipodifferentiation of Pre-adipose Cells on Silk Scaffolds with and Without Co-expressed FGF-2 and VEGF. <i>In Vivo</i> , 2016, 30, 567-72.	0.6	7

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73	Increased Postoperative Bleeding Risk among Patients with Local Flap Surgery under Continued Clopidogrel Therapy. <i>BioMed Research International</i> , 2015, 2015, 1-5.	0.9	18
74	Postoperative Bleeding Risk for Oral Surgery under Continued Clopidogrel Antiplatelet Therapy. <i>BioMed Research International</i> , 2015, 2015, 1-4.	0.9	16
75	Intraosseous heat generation during sonic, ultrasonic and conventional osteotomy. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1072-1077.	0.7	22
76	Targeting gene expression during the early bone healing period in the mandible: A base for bone tissue engineering. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1452-1460.	0.7	4
77	Optimized in vitro procedure for assessing the cytocompatibility of magnesium-based biomaterials. <i>Acta Biomaterialia</i> , 2015, 23, 354-363.	4.1	69
78	Is immediate bony microsurgical reconstruction after head and neck tumor ablation associated with a higher rate of local recurrence?. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 373-375.	0.7	13
79	Lack of evidence for increased postoperative bleeding risk for dental osteotomy with continued aspirin therapy. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2015, 119, 17-19.	0.2	10
80	Purmorphamine and oxysterols accelerate and promote osteogenic differentiation of mesenchymal stem cells in vitro. <i>In Vivo</i> , 2015, 29, 247-54.	0.6	5
81	Enrichment and Schwann Cell Differentiation of Neural Crest-derived Dental Pulp Stem Cells. <i>In Vivo</i> , 2015, 29, 319-26.	0.6	24
82	Does Pulsed Magnetic Field Therapy Influence Nerve Regeneration in the Median Nerve Model of the Rat?. <i>BioMed Research International</i> , 2014, 2014, 1-6.	0.9	17
83	Definition, etiology, prevention and treatment of peri-implantitis " a review. <i>Head & Face Medicine</i> , 2014, 10, 34.	0.8	250
84	Face Transplantation: On the Verge of Becoming Clinical Routine?. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	19
85	Melanotic and non-melanotic malignancies of the face and external ear " A review of current treatment concepts and future options. <i>Cancer Treatment Reviews</i> , 2014, 40, 819-837.	3.4	38
86	Outcome of microvascular free flaps in a high-volume training centre. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 1178-1183.	0.7	28
87	From bench to application: Current practices in tissue engineering and its realisation at maxillofacial units in Germany, Austria and Switzerland. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 1128-1132.	0.7	5
88	Postoperative bleeding risk for cutaneous surgery in the head and neck region with continued phenprocoumon therapy. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 608-611.	0.7	13
89	Osteogenic differentiation of mesenchymal stem cells in fibrin-hydroxyapatite matrix in a 3-dimensional mesh scaffold. <i>In Vivo</i> , 2014, 28, 477-82.	0.6	8
90	Bone substitutes enhance osteogenic differentiation of mesenchymal stem cells in three-dimensional scaffolds. <i>In Vivo</i> , 2014, 28, 733-9.	0.6	1

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91	The innovative application of a novel bone adhesive for facial fracture osteosynthesisâ€” in vitro and in vivo results. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2058-2066.	2.1	8
92	RANK-Ligand inhibitor associated osteonecrosis of the jaw. GMS Interdisciplinary Plastic and Reconstructive Surgery DGPW, 2013, 2, Doc17.	0.1	2