

Ralf Smeets

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

2,560
citations

279778
23
h-index

214788
47
g-index

93
all docs

93
docs citations

93
times ranked

3685
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. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 157-175.	3.4	10
2	Bacterial translocation and microgap formation at a novel conical indexed implant abutment system for single crowns. Clinical Oral Investigations, 2022, 26, 1375-1389.	3.0	3
3	Intraoperative ICG-based fluorescence-angiography in head and neck reconstruction: Predictive value for impaired perfusion of free flaps. Journal of Cranio-Maxillo-Facial Surgery, 2022, 50, 371-379.	1.7	6
4	A comparative study on the secretion of various cytokines by pulp stem cells at different passages and their neurogenic potential. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2022, 166, 161-167.	0.6	1
5	Osseointegration of Zirconia Implants after UV-Light or Cold Atmospheric Plasma Surface Treatment In Vivo. Materials, 2022, 15, 496.	2.9	5
6	Association between periodontitis and metabolic syndrome in the Hamburg City Health Study. Journal of Periodontology, 2022, 93, 1150-1160.	3.4	8
7	Tolerance of Human Fibroblasts to Benfo-Oxythiamine In Vitro. International Journal of Environmental Research and Public Health, 2022, 19, 4112.	2.6	1
8	Effects of a Novel Cold Atmospheric Plasma Treatment of Titanium on the Proliferation and Adhesion Behavior of Fibroblasts. International Journal of Molecular Sciences, 2022, 23, 420.	4.1	9
9	Horizontal augmentation techniques in the mandible: a systematic review. International Journal of Implant Dentistry, 2022, 8, 23.	2.7	14
10	Success and patient satisfaction of immediately loaded zirconia implants with fixed restorations one year after loading. BMC Oral Health, 2022, 22, .	2.3	8
11	Microstructure, mechanical properties, corrosion resistance and cytocompatibility of WE43 Mg alloy scaffolds fabricated by laser powder bed fusion for biomedical applications. Materials Science and Engineering C, 2021, 119, 111623.	7.3	58
12	Toward Tailoring the Degradation Rate of Magnesium-Based Biomaterials for Various Medical Applications: Assessing Corrosion, Cytocompatibility and Immunological Effects. International Journal of Molecular Sciences, 2021, 22, 971.	4.1	8
13	Cytocompatibility of Bone Substitute Materials and Membranes. In Vivo, 2021, 35, 2035-2040.	1.3	6
14	Temporomandibular Joint Osteoarthritis: Regenerative Treatment by a Stem Cell Containing Advanced Therapy Medicinal Product (ATMP)â€™An In Vivo Animal Trial. International Journal of Molecular Sciences, 2021, 22, 443.	4.1	16
15	Clinical significance of <i>ragA</i>, <i>ragB</i>, and PG0982 genes in <i>Porphyromonas gingivalis</i> isolates from periodontitis patients. European Journal of Oral Sciences, 2021, 129, e12776.	1.5	7
16	Silk Fiber-Reinforced Hyaluronic Acid-Based Hydrogel for Cartilage Tissue Engineering. International Journal of Molecular Sciences, 2021, 22, 3635.	4.1	12
17	In vitro Activity of Antimicrobial Wound Dressings on P. aeruginosa Wound Biofilm. Frontiers in Microbiology, 2021, 12, 664030.	3.5	9
18	Influence of surface condition on the degradation behaviour and biocompatibility of additively manufactured WE43. Materials Science and Engineering C, 2021, 124, 112016.	7.3	29

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19	Towards a flexible electrochemical biosensor fabricated from biocompatible Bombyx mori silk. Biosensors and Bioelectronics, 2021, 183, 113204.	10.1	27
20	Evaluation of the Effects of Human Dental Pulp Stem Cells on the Biological Phenotype of Hypertrophic Keloid Fibroblasts. Cells, 2021, 10, 1803.	4.1	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. Head & Face Medicine, 2021, 17, 33.	2.1	4
22	Improved in vivo osseointegration and degradation behavior of PEO surface-modified WE43 magnesium plates and screws after 6 and 12 months. Materials Science and Engineering C, 2021, 129, 112380.	7.3	37
23	Marginal Adaptation and Microbial Leakage at Conometric Prosthetic Connections for Implant-Supported Single Crowns: An In Vitro Investigation. International Journal of Molecular Sciences, 2021, 22, 881.	4.1	10
24	Compare features of human dental pulp cells cultured from pulp tissues with and without cryopreservation. Biomedical Papers of the Medical Faculty of the University Palacky, Olomouc, Czechoslovakia, 2021, 165, 445-451.	0.6	5
25	Periodontitis, dental plaque, and atrial fibrillation in the Hamburg City Health Study. PLoS ONE, 2021, 16, e0259652.	2.5	12
26	Regenerative Potential of Platelet Concentrate Lysate in Mechanically Injured Cartilage and Matrix-Associated Chondrocyte Implantation In Vitro. International Journal of Molecular Sciences, 2021, 22, 13179.	4.1	3
27	Evaluation of a program for routine implementation of shared decision-making in cancer care: results of a stepped wedge cluster randomized trial. Implementation Science, 2021, 16, 106.	6.9	13
28	Analysis of outcome for elderly patients after microvascular flap surgery: a monocentric retrospective cohort study. Clinical Oral Investigations, 2020, 24, 193-200.	3.0	10
29	Rationale and Design of the Hamburg City Health Study. European Journal of Epidemiology, 2020, 35, 169-181.	5.7	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). International Journal of Molecular Sciences, 2020, 21, 7104.	4.1	7
31	Expansion of Human Dental Pulp Cells In Vitro Under Different Cryopreservation Conditions. In Vivo, 2020, 34, 2363-2370.	1.3	7
32	Assessing the frequency of deep lingual concavities in 826 posterior mandible sockets. Journal of Cranio-Maxillo-Facial Surgery, 2020, 48, 1045-1051.	1.7	6
33	Effect of process parameters on additive-free electrospinning of regenerated silk fibroin nonwovens. Bioactive Materials, 2020, 5, 241-252.	15.6	48
34	The Influence of Local Pamidronate Application on Alveolar Dimensional Preservation after Tooth Extraction—An Animal Experimental Study. International Journal of Molecular Sciences, 2020, 21, 3616.	4.1	7
35	Cytocompatibility of Titanium, Zirconia and Modified PEEK after Surface Treatment Using UV Light or Non-Thermal Plasma. International Journal of Molecular Sciences, 2019, 20, 5596.	4.1	41
36	Improved In Vitro Test Procedure for Full Assessment of the Cytocompatibility of Degradable Magnesium Based on ISO 10993-5/-12. International Journal of Molecular Sciences, 2019, 20, 255.	4.1	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.	2.9	5
38	Production and Characterization of Porous Fibroin Scaffolds for Regenerative Medical Application. <i>In Vivo</i> , 2019, 33, 757-762.	1.3	10
39	The Influence of an Ultrasonic Cleaning Protocol for CAD/CAM Abutment Surfaces on Cell Viability and Inflammatory Response <i>In Vitro</i> . <i>In Vivo</i> , 2019, 33, 689-698.	1.3	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.	1.3	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.	8.3	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.	3.1	24
43	Influence of UV irradiation and cold atmospheric pressure plasma on zirconia surfaces: an in vitro study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2019, 34, 329-336.	1.4	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.	2.6	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.	1.5	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.	1.4	42
47	Plasma Electrolytic Oxidation of Titanium Implant Surfaces: Microgroove-Structures Improve Cellular Adhesion and Viability. <i>In Vivo</i> , 2018, 32, 241-247.	1.3	12
48	Cytocompatibility of Direct Laser Interference-patterned Titanium Surfaces for Implants. <i>In Vivo</i> , 2018, 31, 849-854.	1.3	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.	4.5	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.	1.7	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.	2.7	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.	1.7	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.	6.9	25
54	Selective laser-melted fully biodegradable scaffold composed of poly(ϵ -caprolactone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 maxillofacial reconstruction: <i>In vitro</i> and <i>in vivo</i> results. , 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. European Journal of Oral Sciences, 2017, 125, 95-101.	1.5	2
56	Artefacts in multimodal imaging of titanium, zirconium and binary titaniumâ€zirconium alloy dental implants: an <i>in vitro</i> study. Dentomaxillofacial Radiology, 2017, 46, 20160267.	2.7	54
57	Immediate loading of subcrestally placed dental implants in anterior and premolar sites. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1898-1905.	1.7	11
58	CADâ€CAM plates versus conventional fixation plates for primary mandibular reconstruction: A biomechanical inÂvitro analysis. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1878-1883.	1.7	51
59	Novel silk protein barrier membranes for guided bone regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2603-2611.	3.4	17
60	Facial palsy after dental procedures â€ Is viral reactivation responsible?. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 71-75.	1.7	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. BioMed Research International, 2017, 2017, 1-9.	1.9	12
62	The feasibility of immediately loading dental implants in edentulous jaws. Journal of Periodontal and Implant Science, 2016, 46, 234.	2.0	7
63	Impact of Dental Implant Surface Modifications on Osseointegration. BioMed Research International, 2016, 2016, 1-16.	1.9	421
64	Approaches to Peripheral Nerve Repair: Generations of Biomaterial Conduits Yielding to Replacing Autologous Nerve Grafts in Craniomaxillofacial Surgery. BioMed Research International, 2016, 2016, 1-18.	1.9	147
65	A novel nonviral gene delivery tool of BMPâ€2 for the reconstitution of criticalâ€size bone defects in rats. Journal of Biomedical Materials Research - Part A, 2016, 104, 2441-2455.	4.0	22
66	Microvascular stent anastomosis using N-fibroin stents: feasibility, ischemia time, and complications. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2016, 121, e97-e103.	0.4	4
67	Outcome and fewer indications for adjuvant therapy for patients with oral squamous cell carcinomas under standardized tumor board conditions. Journal of Cancer Research and Clinical Oncology, 2016, 142, 505-520.	2.5	3
68	Postoperative bleeding risk for oral surgery under continued rivaroxaban anticoagulant therapy. Clinical Oral Investigations, 2016, 20, 1279-1282.	3.0	37
69	The benefit of abdominal sonography and chest X-ray for staging oral squamous cell carcinomas in stages UICC I and II. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 186-190.	1.7	2
70	Targeting In-Stent-Stenosis with RGD- and CXCL1-Coated Mini-Stents in Mice. PLoS ONE, 2016, 11, e0155829.	2.5	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). In Vivo, 2016, 30, 27-33.	1.3	17
72	Attachment, Viability and Adipodifferentiation of Pre-adipose Cells on Silk Scaffolds with and Without Co-expressed FGF-2 and VEGF. In Vivo, 2016, 30, 567-72.	1.3	7

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73	Increased Postoperative Bleeding Risk among Patients with Local Flap Surgery under Continued Clopidogrel Therapy. BioMed Research International, 2015, 2015, 1-5.	1.9	18
74	Postoperative Bleeding Risk for Oral Surgery under Continued Clopidogrel Antiplatelet Therapy. BioMed Research International, 2015, 2015, 1-4.	1.9	16
75	Intraosseous heat generation during sonic, ultrasonic and conventional osteotomy. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1072-1077.	1.7	22
76	Targeting gene expression during the early bone healing period in the mandible: A base for bone tissue engineering. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1452-1460.	1.7	4
77	Optimized in vitro procedure for assessing the cytocompatibility of magnesium-based biomaterials. Acta Biomaterialia, 2015, 23, 354-363.	8.3	69
78	Is immediate bony microsurgical reconstruction after head and neck tumor ablation associated with a higher rate of local recurrence?. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 373-375.	1.7	13
79	Lack of evidence for increased postoperative bleeding risk for dental osteotomy with continued aspirin therapy. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2015, 119, 17-19.	0.4	10
80	Purmorphamine and oxysterols accelerate and promote osteogenic differentiation of mesenchymal stem cells in vitro. In Vivo, 2015, 29, 247-54.	1.3	5
81	Enrichment and Schwann Cell Differentiation of Neural Crest-derived Dental Pulp Stem Cells. In Vivo, 2015, 29, 319-26.	1.3	24
82	Does Pulsed Magnetic Field Therapy Influence Nerve Regeneration in the Median Nerve Model of the Rat?. BioMed Research International, 2014, 2014, 1-6.	1.9	17
83	Definition, etiology, prevention and treatment of peri-implantitis – a review. Head & Face Medicine, 2014, 10, 34.	2.1	250
84	Face Transplantation: On the Verge of Becoming Clinical Routine?. BioMed Research International, 2014, 2014, 1-9.	1.9	19
85	Melanotic and non-melanotic malignancies of the face and external ear – A review of current treatment concepts and future options. Cancer Treatment Reviews, 2014, 40, 819-837.	7.7	38
86	Outcome of microvascular free flaps in a high-volume training centre. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1178-1183.	1.7	28
87	From bench to application: Current practices in tissue engineering and its realisation at maxillofacial units in Germany, Austria and Switzerland. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1128-1132.	1.7	5
88	Postoperative bleeding risk for cutaneous surgery in the head and neck region with continued phenprocoumon therapy. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 608-611.	1.7	13
89	Osteogenic differentiation of mesenchymal stem cells in fibrin-hydroxyapatite matrix in a 3-dimensional mesh scaffold. In Vivo, 2014, 28, 477-82.	1.3	8
90	Bone substitutes enhance osteogenic differentiation of mesenchymal stem cells in three-dimensional scaffolds. In Vivo, 2014, 28, 733-9.	1.3	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.	4.0	8
92	RANK-Ligand inhibitor associated osteonecrosis of the jaw. GMS Interdisciplinary Plastic and Reconstructive Surgery DGPW, 2013, 2, Doc17.	0.1	2