

Christian Apel

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,444
citations

361413

20
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1788
citing authors

#	ARTICLE	IF	CITATIONS
1	Diode Laser Radiation and Its Bactericidal Effect in Root Canal Wall Dentin. <i>Photomedicine and Laser Surgery</i> , 2000, 18, 57-60.	0.9	233
2	Assessment of stem cell/biomaterial combinations for stem cell-based tissue engineering. <i>Biomaterials</i> , 2008, 29, 302-313.	11.4	157
3	Influence of the water content in dental enamel and dentin on ablation with erbium YAG and erbium YSGG lasers. <i>Journal of Biomedical Optics</i> , 2006, 11, 034030.	2.6	95
4	Three-Dimensional Printing and Angiogenesis: Tailored Agarose-Type I Collagen Blends Comprise Three-Dimensional Printability and Angiogenesis Potential for Tissue-Engineered Substitutes. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 604-615.	2.1	94
5	Bond Strength of Self-Etching Primer to Bur Cut, Er,Cr:YSGG, and Er:YAG Lased Dental Surfaces. <i>Photomedicine and Laser Surgery</i> , 2007, 25, 373-380.	2.0	88
6	Microleakage of composite fillings in Er,Cr:YSGG laser-prepared class II cavities. <i>Lasers in Surgery and Medicine</i> , 2001, 28, 371-374.	2.1	74
7	Analysis of the interfacial micromorphology of adhesive systems in cavities prepared with Er,Cr:YSGG, Er:YAG laser and bur. <i>Microscopy Research and Technique</i> , 2007, 70, 745-751.	2.2	69
8	Influence of etching time on bond strength in dentin irradiated with erbium lasers. <i>Lasers in Medical Science</i> , 2010, 25, 849-854.	2.1	55
9	Differences in degradation behavior of two non-crosslinked collagen barrier membranes: an <i>in vitro</i> and <i>in vivo</i> study. <i>Clinical Oral Implants Research</i> , 2014, 25, 1403-1411.	4.5	46
10	Hand-held bioprinting for <i>de novo</i> vascular formation applicable to dental pulp regeneration. <i>Connective Tissue Research</i> , 2020, 61, 205-215.	2.3	40
11	Effect of defocused infrared diode laser on salivary flow rate and some salivary parameters of rats. <i>Clinical Oral Investigations</i> , 2008, 12, 25-30.	3.0	38
12	Influence of etching with erbium, chromium:yttrium-scandium-gallium-garnet laser on microleakage of class V restoration. <i>Lasers in Medical Science</i> , 2010, 25, 325-329.	2.1	37
13	New stereolithographic resin providing functional surfaces for biocompatible three-dimensional printing. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141774448.	5.5	36
14	Microflora associated with successful and failed orthodontic mini-implants. <i>Clinical Oral Implants Research</i> , 2009, 20, 1186-1190.	4.5	33
15	Dental composite materials containing carolacton inhibit biofilm growth of <i>Streptococcus mutans</i> . <i>Dental Materials</i> , 2013, 29, 1188-1199.	3.5	31
16	Protective effect of CO ₂ laser (10.6 μm) and fluoride on enamel erosion <i>in vitro</i> . <i>Lasers in Medical Science</i> , 2013, 28, 71-78.	2.1	31
17	Macrophages significantly enhance wound healing in a vascularized skin model. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1340-1350.	4.0	29
18	Extracellular Vesicles-Loaded Fibrin Gel Supports Rapid Neovascularization for Dental Pulp Regeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4226.	4.1	29

#	ARTICLE	IF	CITATIONS
19	Enrichment and Schwann Cell Differentiation of Neural Crest-derived Dental Pulp Stem Cells. In Vivo, 2015, 29, 319-26.	1.3	24
20	Influence of the spatial beam profile on hard tissue ablation, Part II: pulse energy and energy density distribution in simple beams. Lasers in Medical Science, 2004, 19, 112-118.	2.1	23
21	Transcriptome Analysis of MSC and MSC-Derived Osteoblasts on Resomer® LT706 and PCL: Impact of Biomaterial Substrate on Osteogenic Differentiation. PLoS ONE, 2011, 6, e23195.	2.5	19
22	Deep sequencing of biofilm microbiomes on dental composite materials. Journal of Oral Microbiology, 2019, 11, 1617013.	2.7	19
23	A comprehensive analysis of human dental pulp cell spheroids in a three-dimensional pellet culture system. Archives of Oral Biology, 2018, 91, 1-8.	1.8	18
24	Potential of CO2 lasers (10.6 Åum) associated with fluorides in inhibiting human enamel erosion. Brazilian Oral Research, 2014, 28, 1-6.	1.4	16
25	Combined Tin-Containing Fluoride Solution and CO<sub>2</sub></sub></sub></sub> Laser Treatment Reduces Enamel Erosion in vitro. Caries Research, 2015, 49, 565-574.	2.0	14
26	Apicoectomy Using Er:YAG Laser in Association with Microscope: A Comparative Retrospective Investigation. Photomedicine and Laser Surgery, 2013, 31, 110-115.	2.0	13
27	Multireflection pumping concept for miniaturized diode-pumped solid-state lasers. Applied Optics, 2004, 43, 5864.	2.1	12
28	Monitoring the Remodeling of Biohybrid Tissue<sup>e</sup>Engineered Vascular Grafts by Multimodal Molecular Imaging. Advanced Science, 2022, 9, e2105783.	11.2	10
29	Natural saliva as an adjuvant in a secondary caries model based on Streptococcus mutans. Archives of Oral Biology, 2018, 90, 138-143.	1.8	9
30	Effects of Dentifrices Differing in Fluoride Content on Remineralization Characteristics of Dentin in vitro. Caries Research, 2020, 54, 75-86.	2.0	9
31	Differential mineralization of human dental pulp stem cells on diverse polymers. Biomedizinische Technik, 2018, 63, 261-269.	0.8	8
32	A polyurethane<sup>e</sup>based surgical adhesive for sealing blood vessel anastomoses<sup>e</sup>”A feasibility study in pigs. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1922-1931.	3.4	8
33	Evaluation of Restorative Materials Containing Preventive Additives in a Secondary Caries Model in vitro. Caries Research, 2019, 53, 447-456.	2.0	6
34	Calcitonin, sodium alendronate and high intensity laser in the treatment of traumatized teeth: a preliminary study. Lasers in Medical Science, 2010, 25, 331-337.	2.1	5
35	Integrin <i>Î±</i>4 impacts on differential adhesion of preadipocytes and stem cells on synthetic polymers. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 312-323.	2.7	5
36	Deminerzalization Inhibitory Effects of Highly Concentrated Fluoride Dentifrice and Fluoride Gels/Solutions on Sound Dentin and Artificial Dentin Caries Lesions in vitro. Caries Research, 2021, 55, 41-54.	2.0	5

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37	<title>Bond strength of composites on Er:YAG and Er,Cr:YSGG laser-irradiated enamel</title>. , 1999, 3564, 197.		4
38	Inpatient treatment of trekkers and Nepalese workers in the high-altitude environment of Mt. Everest Region 1996â€“2011: A retrospective analysis. Travel Medicine and Infectious Disease, 2019, 31, 101356.	3.0	2
39	Influence of an initiator gel on the temperature change in the tooth chamber during Nd:YAG laser treatment on dental hard tissue. , 1998, , .		0
40	Use of a genetic algorithm technique in solid-state laser pump cavity development. Applied Optics, 2007, 46, 1302.	2.1	0