

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	Monitoring the Remodeling of Biohybrid Tissue-Engineered Vascular Grafts by Multimodal Molecular Imaging. <i>Advanced Science</i> , 2022, 9, e2105783.	11.2	10
2	A polyurethane-based surgical adhesive for sealing blood vessel anastomoses—A feasibility study in pigs. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1922-1931.	3.4	8
3	Deminerzalization Inhibitory Effects of Highly Concentrated Fluoride Dentifrice and Fluoride Gels/Solutions on Sound Dentin and Artificial Dentin Caries Lesions in vitro. <i>Caries Research</i> , 2021, 55, 41-54.	2.0	5
4	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
5	Effects of Dentifrices Differing in Fluoride Content on Remineralization Characteristics of Dentin in vitro. <i>Caries Research</i> , 2020, 54, 75-86.	2.0	9
6	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
7	Deep sequencing of biofilm microbiomes on dental composite materials. <i>Journal of Oral Microbiology</i> , 2019, 11, 1617013.	2.7	19
8	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
9	Evaluation of Restorative Materials Containing Preventive Additives in a Secondary Caries Model in vitro. <i>Caries Research</i> , 2019, 53, 447-456.	2.0	6
10	Inpatient treatment of trekkers and Nepalese workers in the high-altitude environment of Mt. Everest Region 1996–2011: A retrospective analysis. <i>Travel Medicine and Infectious Disease</i> , 2019, 31, 101356.	3.0	2
11	Natural saliva as an adjuvant in a secondary caries model based on <i>Streptococcus mutans</i> . <i>Archives of Oral Biology</i> , 2018, 90, 138-143.	1.8	9
12	A comprehensive analysis of human dental pulp cell spheroids in a three-dimensional pellet culture system. <i>Archives of Oral Biology</i> , 2018, 91, 1-8.	1.8	18
13	Differential mineralization of human dental pulp stem cells on diverse polymers. <i>Biomedizinische Technik</i> , 2018, 63, 261-269.	0.8	8
14	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
15	New stereolithographic resin providing functional surfaces for biocompatible three-dimensional printing. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141774448.	5.5	36
16	Combined Tin-Containing Fluoride Solution and CO ₂ Laser Treatment Reduces Enamel Erosion in vitro. <i>Caries Research</i> , 2015, 49, 565-574.	2.0	14
17	Enrichment and Schwann Cell Differentiation of Neural Crest-derived Dental Pulp Stem Cells. <i>In Vivo</i> , 2015, 29, 319-26.	1.3	24
18	Potential of CO ₂ lasers (10.6 Åµm) associated with fluorides in inhibiting human enamel erosion. <i>Brazilian Oral Research</i> , 2014, 28, 1-6.	1.4	16

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19	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
20	Integrin α 4 impacts on differential adhesion of preadipocytes and stem cells on synthetic polymers. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 312-323.	2.7	5
21	Dental composite materials containing carolacton inhibit biofilm growth of <i>Streptococcus mutans</i> . <i>Dental Materials</i> , 2013, 29, 1188-1199.	3.5	31
22	Apicoectomy Using Er:YAG Laser in Association with Microscope: A Comparative Retrospective Investigation. <i>Photomedicine and Laser Surgery</i> , 2013, 31, 110-115.	2.0	13
23	Protective effect of CO ₂ laser (10.6 μ m) and fluoride on enamel erosion <i>in vitro</i> . <i>Lasers in Medical Science</i> , 2013, 28, 71-78.	2.1	31
24	Transcriptome Analysis of MSC and MSC-Derived Osteoblasts on Resomer [®] LT706 and PCL: Impact of Biomaterial Substrate on Osteogenic Differentiation. <i>PLoS ONE</i> , 2011, 6, e23195.	2.5	19
25	Calcitonin, sodium alendronate and high intensity laser in the treatment of traumatized teeth: a preliminary study. <i>Lasers in Medical Science</i> , 2010, 25, 331-337.	2.1	5
26	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
27	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
28	Microflora associated with successful and failed orthodontic mini-implants. <i>Clinical Oral Implants Research</i> , 2009, 20, 1186-1190.	4.5	33
29	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
30	Assessment of stem cell/biomaterial combinations for stem cell-based tissue engineering. <i>Biomaterials</i> , 2008, 29, 302-313.	11.4	157
31	Use of a genetic algorithm technique in solid-state laser pump cavity development. <i>Applied Optics</i> , 2007, 46, 1302.	2.1	0
32	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
33	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
34	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
35	Influence of the spatial beam profile on hard tissue ablation, Part II: pulse energy and energy density distribution in simple beams. <i>Lasers in Medical Science</i> , 2004, 19, 112-118.	2.1	23
36	Multireflection pumping concept for miniaturized diode-pumped solid-state lasers. <i>Applied Optics</i> , 2004, 43, 5864.	2.1	12

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37	Microleakage of composite fillings in Er,Cr:YSGG laser-prepared class II cavities. Lasers in Surgery and Medicine, 2001, 28, 371-374.	2.1	74
38	Diode Laser Radiation and Its Bactericidal Effect in Root Canal Wall Dentin. Photomedicine and Laser Surgery, 2000, 18, 57-60.	0.9	233
39	<title>Bond strength of composites on Er:YAG and Er,Cr:YSGG laser-irradiated enamel</title>. , 1999, 3564, 197.		4
40	Influence of an initiator gel on the temperature change in the tooth chamber during Nd:YAG laser treatment on dental hard tissue. , 1998, , .		0