

Rene Franzen

List of Publications by Year in descending order

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29
papers

591
citations

687363

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610901

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29
docs citations

29
times ranked

504
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Temperature evolution on human teeth root surface after diode laser assisted endodontic treatment. <i>Lasers in Medical Science</i> , 2005, 20, 99-103.	2.1	74
3	Decontamination of deep dentin by means of erbium, chromium:yttrium-scandium-gallium-garnet laser irradiation. <i>Lasers in Medical Science</i> , 2009, 24, 75-80.	2.1	59
4	Laser-assisted in-office bleaching using a neodymium:yttrium-aluminum-garnet laser: an in vivo study. <i>Lasers in Medical Science</i> , 2010, 25, 503-509.	2.1	47
5	Bactericidal effect of a Nd:YAG laser on <i>Enterococcus faecalis</i> at pulse durations of 15 and 25 Åms in dentine depths of 500 and 1,000 Åm. <i>Lasers in Medical Science</i> , 2011, 26, 95-101.	2.1	43
6	Influence of water-layer thickness on Er:YAG laser ablation of enamel of bovine anterior teeth. <i>Lasers in Medical Science</i> , 2008, 23, 451-457.	2.1	40
7	Evaluation of Temperature Elevation During Root Canal Treatment with Dual Wavelength Laser: 2780 nm Er,Cr:YSGG and 940 nm Diode. <i>Photomedicine and Laser Surgery</i> , 2015, 33, 460-466.	2.0	27
8	The Bactericidal Effect of 2780 and 940 nm Laser Irradiation on <i>Enterococcus faecalis</i> in Bovine Root Dentin Slices of Different Thicknesses. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 11-16.	2.0	25
9	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
10	Investigations of radicular dentin permeability and ultrastructural changes after irradiation with Er,Cr:YSGG laser and dual wavelength (2780 and 940 nm) laser. <i>Lasers in Medical Science</i> , 2015, 30, 2115-2121.	2.1	22
11	Laser treatment of dental ceramic/cement layers: transmitted energy, temperature effects and surface characterisation. <i>Lasers in Medical Science</i> , 2015, 30, 591-597.	2.1	18
12	The effectiveness of the Erbium:Yttrium aluminum garnet PIPS technique in comparison to different chemical solutions in removing the endodontic smear layer – an in vitro profilometric study. <i>Lasers in Medical Science</i> , 2016, 31, 1871-1882.	2.1	18
13	The Impact of a 940 nm Diode Laser with Radial Firing Tip and Bare End Fiber Tip on <i>Enterococcus faecalis</i> in the Root Canal Wall Dentin of Bovine Teeth: An In Vitro Study. <i>Photomedicine and Laser Surgery</i> , 2017, 35, 357-363.	2.0	17
14	Root Surface Temperature Changes During Root Canal Laser Irradiation with Dual Wavelength Laser (940 and 2780 nm): A Preliminary Study. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 336-344.	2.0	13
15	Shear strength of composite bonded to Er:YAG laser-prepared enamel: an in vitro comparative study. <i>Lasers in Medical Science</i> , 2013, 28, 879-889.	2.1	11
16	Removal of Dental Implants Using the Erbium,Chromium:Yttrium-Scandium-Gallium-Garnet Laser and the Conventional Trepine Bur: An In Vitro Comparative Study. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 61-67.	2.0	11
17	Intrapulpal temperature changes during root surface irradiation with dual-wavelength laser (2780) Tj ETQq1 1 0.784314 rgBT ₉ /Overlock	2.6	9
18	Rationale for using a double-wavelength (940 nm + 2780 nm) laser in endodontics: literature overview and proof-of-concept. <i>Lasers in Dental Science</i> , 2018, 2, 29-41.	0.6	9

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19	Bactericidal effect of 445-nm blue diode laser in the root canal dentin on <i>Enterococcus faecalis</i> of human teeth. <i>Lasers in Dental Science</i> , 2018, 2, 247-254.	0.6	8
20	In vitro preliminary study to evaluate the capability of Er,Cr:YSGG laser in posterior teeth root-canal preparation with step-back technique. <i>Lasers in Medical Science</i> , 2009, 24, 7-12.	2.1	5
21	First Investigation of Dual-Wavelength Lasers (2780nm Er,Cr:YSGG and 940nm Diode) on Implants in a Simulating Peri-Implantitis Situation Regarding Temperature Changes in an <i>In Vitro</i> Pocket Model. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 508-514.	1.4	5
22	Intra-pulpal temperature evaluation during diode laser (445nm) irradiation for treatment of dentine hypersensitivity: in vitro a pilot study. <i>Lasers in Dental Science</i> , 2020, 4, 139-144.	0.6	5
23	Temperature elevation during root canal treatment with a 445-nm diode laser – an in vitro study. <i>Lasers in Dental Science</i> , 2018, 2, 89-94.	0.6	3
24	Comparative ultrastructural analysis of Er:YAG laser scanner and conventional method for tooth cavity preparation. <i>Lasers in Dental Science</i> , 2017, 1, 23-31.	0.6	2
25	Fracture Forces of Dentin after Surface Treatment with High Speed Drill Compared to Er:YAG and Er,Cr:YSGG Laser Irradiation. <i>Analytical Cellular Pathology</i> , 2016, 2016, 1-7.	1.4	1
26	Endodontic impact of cavitation and bubble formation induced by 2780-nm Er,Cr:YSGG laser using radial firing tips on simulated root canals. <i>Lasers in Dental Science</i> , 2022, 6, 195-204.	0.6	1
27	Use of a genetic algorithm technique in solid-state laser pump cavity development. <i>Applied Optics</i> , 2007, 46, 1302.	2.1	0
28	Review of possible predictors for pain perception with class I cavity preparations using Er,Cr:YSGG laser: a retrospective clinical in vivo study. <i>Lasers in Dental Science</i> , 2017, 1, 9-21.	0.6	0
29	Immediate clinical evaluation of a 940-nm diode laser-assisted in-office bleaching technique. <i>Lasers in Dental Science</i> , 2018, 2, 239-245.	0.6	0