Raimund Hibst

List of Publications by Year
in descending order

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		567281	752698
35	3,360	15	20
papers	citations	h-index	g-index

35	35	35	1617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental studies of the application of the Er:YAG laser on dental hard substances: I. Measurement of the ablation rate. Lasers in Surgery and Medicine, 1989, 9, 338-344.	2.1	762
2	Experimental studies of the application of the Er:YAG laser on dental hard substances: II. Light microscopic and SEM investigations. Lasers in Surgery and Medicine, 1989, 9, 345-351.	2.1	507
3	Spatially resolved absolute diffuse reflectance measurements for noninvasive determination of the optical scattering and absorption coefficients of biological tissue. Applied Optics, 1996, 35, 2304.	2.1	430
4	Pulsed erbium:YAG laser ablation in cutaneous surgery. , 1996, 19, 324-330.		229
5	Cutting and Skinâ€Ablative Properties of Pulsed Midâ€Infrared Laser Surgery. The Journal of Dermatologic Surgery and Oncology, 1994, 20, 112-118.	0.8	170
6	Detection of Occlusal Caries by Laser Fluorescence: Basic and Clinical Investigations. Medical Laser Application: International Journal for Laser Treatment and Research, 2001, 16, 205-213.	0.3	165
7	Effects of Er:YAG laser in caries treatment: A clinical pilot study. Lasers in Surgery and Medicine, 1997, 20, 32-38.	2.1	145
8	Pulsed Er:YAG- and 308 nm UV-excimer laser: An in vitro and in vivo study of skin-ablative effects. Lasers in Surgery and Medicine, 1989, 9, 132-140.	2.1	113
9	Influence of the phase function on determination of the optical properties of biological tissue by spatially resolved reflectance. Optics Letters, 2001, 26, 1571.	3.3	101
10	Mechanical effects of erbium:YAG laser bone ablation. Lasers in Surgery and Medicine, 1992, 12, 125-130.	2.1	96
11	Infrared Absorption Bands of Enamel and Dentin Tissues from Human and Bovine Teeth. Applied Spectroscopy Reviews, 2003, 38, 1-14.	6.7	88
12	Light propagation in dentin: influence of microstructure on anisotropy. Physics in Medicine and Biology, 2003, 48, N7-N14.	3.0	84
13	Effects of laser parameters on pulsed Er-YAG laser skin ablation. Lasers in Medical Science, 1991, 6, 391-397.	2.1	72
14	Changes in chemical composition and collagen structure of dentine tissue after erbium laser irradiation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2634-2639.	3.9	69
15	Mechanism of Er:YAG laser-induced ablation of dental hard substances. , 1993, , .		46
16	Ultrastructural changes of enamel and dentin following Er:YAG laser radiation on teeth. , 1990, , .		37
17	Tooth pulp reaction following Er:YAG laser application. , 1991, , .		34
18	<title>Laser-induced autofluorescence of carious regions of human teeth and caries-involved bacteria</title>. , 1993, , .		31

#	Article	IF	Citations
19	Removal of dental filling materials by Er:YAG laser radiation. , 1991, , .		30
20	Heat effect of pulsed Er:YAG laser radiation. , 1990, , .		26
21	Phase function measurements on nonspherical scatterers using a two-axis goniometer. Journal of Biomedical Optics, 2006, 11, 024018.	2.6	19
22	Mechanism of highâ€power NIR laser bacteria inactivation. Journal of Biophotonics, 2010, 3, 296-303.	2.3	19
23	New approach on fluorescence spectroscopy for caries detection. , 1999, , .		16
24	<title>Er:YAG removal of subgingival calculi: efficiency, temperature, and surface quality</title>. , 1996, , .		13
25	Effects of pulsed CO 2 and Er:YAG lasers on enamel and dentin. , 1993, , .		10
26	Efficient bone cutting with the novel diode pumped Er:YAG laser system: in vitro investigation and optimization of the treatment parameters. Proceedings of SPIE, 2014, , .	0.8	8
27	<title>Experimental removal of subgingival calculus with the Er:YAG laser</title>. , 1996, , .		7
28	Smart fiber tips for dental laser applications. Medical Laser Application: International Journal for Laser Treatment and Research, 2008, 23, 6-13.	0.3	7
29	Investigations on the potential of a novel diode pumped Er:YAG laser system for dental applications. Proceedings of SPIE, 2012, , .	0.8	7
30	Infrared spectroscopy of dentin irradiated by erbium laser. International Congress Series, 2003, 1248, 153-156.	0.2	6
31	<title>Morphology of Er:YAG-laser-treated root surfaces</title>. , 1997, , .		5
32	Primary investigations on the potential of a novel diode pumped Er:YAG laser system for bone surgery. , 2013, , .		4
33	Inactivation of bacteria by high-power 940nm laser irradiation. Medical Laser Application: International Journal for Laser Treatment and Research, 2011, 26, 166-171.	0.3	3
34	<title>Lasers in oral surgery</title>. , 1994, , .		1
35	Investigations on the potential of a low power diode pumped Er:YAG laser system for oral surgery. , 2015, , .		0