

# Raimund Hibst

## List of Publications by Year in descending order

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35  
papers

3,360  
citations

567281

15  
h-index

752698

20  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations on the potential of a low power diode pumped Er:YAG laser system for oral surgery. , 2015, , .		0
2	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
3	Primary investigations on the potential of a novel diode pumped Er:YAG laser system for bone surgery. , 2013, , .		4
4	Investigations on the potential of a novel diode pumped Er:YAG laser system for dental applications. Proceedings of SPIE, 2012, , .	0.8	7
5	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
6	Mechanism of high-power NIR laser bacteria inactivation. Journal of Biophotonics, 2010, 3, 296-303.	2.3	19
7	Smart fiber tips for dental laser applications. Medical Laser Application: International Journal for Laser Treatment and Research, 2008, 23, 6-13.	0.3	7
8	Phase function measurements on nonspherical scatterers using a two-axis goniometer. Journal of Biomedical Optics, 2006, 11, 024018.	2.6	19
9	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
10	Light propagation in dentin: influence of microstructure on anisotropy. Physics in Medicine and Biology, 2003, 48, N7-N14.	3.0	84
11	Infrared spectroscopy of dentin irradiated by erbium laser. International Congress Series, 2003, 1248, 153-156.	0.2	6
12	Infrared Absorption Bands of Enamel and Dentin Tissues from Human and Bovine Teeth. Applied Spectroscopy Reviews, 2003, 38, 1-14.	6.7	88
13	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
14	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
15	New approach on fluorescence spectroscopy for caries detection. , 1999, , .		16
16	<title>Morphology of Er:YAG-laser-treated root surfaces</title>. , 1997, , .		5
17	<b>Effects of Er:YAG laser in caries treatment:</b> A clinical pilot study. Lasers in Surgery and Medicine, 1997, 20, 32-38.	2.1	145
18	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

#	ARTICLE	IF	CITATIONS
19	<title>Er:YAG removal of subgingival calculi: efficiency, temperature, and surface quality</title>. , 1996, , .		13
20	<title>Experimental removal of subgingival calculus with the Er:YAG laser</title>. , 1996, , .		7
21	Pulsed erbium:YAG laser ablation in cutaneous surgery. , 1996, 19, 324-330.		229
22	<title>Lasers in oral surgery</title>. , 1994, , .		1
23	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
24	Mechanism of Er:YAG laser-induced ablation of dental hard substances. , 1993, , .		46
25	<title>Laser-induced autofluorescence of carious regions of human teeth and caries-involved bacteria</title>. , 1993, , .		31
26	Effects of pulsed CO 2 and Er:YAG lasers on enamel and dentin. , 1993, , .		10
27	Mechanical effects of erbium:YAG laser bone ablation. Lasers in Surgery and Medicine, 1992, 12, 125-130.	2.1	96
28	Effects of laser parameters on pulsed Er-YAG laser skin ablation. Lasers in Medical Science, 1991, 6, 391-397.	2.1	72
29	Tooth pulp reaction following Er:YAG laser application. , 1991, , .		34
30	Removal of dental filling materials by Er:YAG laser radiation. , 1991, , .		30
31	Heat effect of pulsed Er:YAG laser radiation. , 1990, , .		26
32	Ultrastructural changes of enamel and dentin following Er:YAG laser radiation on teeth. , 1990, , .		37
33	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
34	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
35	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