

Reginald Birngruber

List of Publications by Year in descending order

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94
papers

4,151
citations

117625

34
h-index

118850

62
g-index

100
all docs

100
docs citations

100
times ranked

2593
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical coherence tomography of the human skin. Journal of the American Academy of Dermatology, 1997, 37, 958-963.	1.2	393
2	Vascular Targeting in Photodynamic Occlusion of Subretinal Vessels. Ophthalmology, 1994, 101, 1953-1961.	5.2	248
3	Origin of retinal pigment epithelium cell damage by pulsed laser irradiance in the nanosecond to microsecond time regimen. Lasers in Surgery and Medicine, 2000, 27, 451-464.	2.1	193
4	Thermal and Biomechanical Parameters of Porcine Cornea. Cornea, 2000, 19, 355-363.	1.7	189
5	Mechanisms of intraocular photodisruption with picosecond and nanosecond laser pulses. Lasers in Surgery and Medicine, 1994, 15, 32-43.	2.1	171
6	Optical properties of human sclera, and their consequences for transscleral laser applications. Lasers in Surgery and Medicine, 1991, 11, 331-340.	2.1	160
7	Low-coherence optical tomography in turbid tissue: theoretical analysis. Applied Optics, 1995, 34, 6564.	2.1	127
8	Photodynamic Therapy of Experimental Choroidal Melanoma Using Lipoprotein-delivered Benzoporphyrin. Ophthalmology, 1994, 101, 89-99.	5.2	124
9	Photodynamic therapy of subfoveal choroidal neovascularization: clinical and angiographic examples. Graefe's Archive for Clinical and Experimental Ophthalmology, 1998, 236, 365-374.	1.9	119
10	Noncontact corneal pachymetry with slit lamp-adapted optical coherence tomography. American Journal of Ophthalmology, 2002, 133, 444-450.	3.3	97
11	Selective retina therapy (SRT) for clinically significant diabetic macular edema. Graefe's Archive for Clinical and Experimental Ophthalmology, 2010, 248, 1263-1272.	1.9	97
12	In vivo uptake of liposomal benzoporphyrin derivative and photothrombosis in experimental corneal neovascularization. Lasers in Surgery and Medicine, 1995, 17, 178-188.	2.1	95
13	Intraoperative 2-Dimensional Optical Coherence Tomography as a New Tool for Anterior Segment Surgery. JAMA Ophthalmology, 2005, 123, 253.	2.4	95
14	Picosecond optical breakdown: Tissue effects and reduction of collateral damage. Lasers in Surgery and Medicine, 1989, 9, 193-204.	2.1	89
15	Argon Laser Retinal Lesions Evaluated In Vivo by Optical Coherence Tomography. American Journal of Ophthalmology, 1997, 123, 188-198.	3.3	75
16	Noninvasive optoacoustic online retinal temperature determination during continuous-wave laser irradiation. Journal of Biomedical Optics, 2006, 11, 041111.	2.6	70
17	Influence of pulse duration and pulse number in selective RPE laser treatment. Lasers in Surgery and Medicine, 2004, 34, 206-215.	2.1	66
18	Real-time temperature determination during retinal photocoagulation on patients. Journal of Biomedical Optics, 2012, 17, 061219.	2.6	66

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19	Non-invasive transdermal two-dimensional mapping of cutaneous oxygenation with a rapid-drying liquid bandage. Biomedical Optics Express, 2014, 5, 3748.	2.9	66
20	Corneal optical coherence tomography before and immediately after excimer laser photorefractive keratectomy. American Journal of Ophthalmology, 2000, 130, 693-699.	3.3	64
21	Mid-Infrared laser ablation of the cornea: A comparative study. Lasers in Surgery and Medicine, 1992, 12, 274-281.	2.1	61
22	Contrast limits of coherence-gated imaging in scattering media. Applied Optics, 1997, 36, 2979.	2.1	61
23	Imaging thermal expansion and retinal tissue changes during photocoagulation by high speed OCT. Biomedical Optics Express, 2012, 3, 1025.	2.9	61
24	Influence of temperature and time on thermally induced forces in corneal collagen and the effect on laser thermokeratoplasty. Journal of Cataract and Refractive Surgery, 2000, 26, 744-754.	1.5	60
25	Optoacoustic real-time dosimetry for selective retina treatment. Journal of Biomedical Optics, 2005, 10, 064022.	2.6	60
26	Influence of optical aberrations on laser-induced plasma formation in water and their consequences for intraocular photodisruption. Applied Optics, 1999, 38, 3636.	2.1	49
27	RELAXATION OF VASCULAR SMOOTH MUSCLE INDUCED BY LOW-POWER LASER RADIATION. Photochemistry and Photobiology, 1993, 58, 661-669.	2.5	48
28	Light-Controlled Delivery of Monoclonal Antibodies for Targeted Photoinactivation of Ki-67. Molecular Pharmaceutics, 2015, 12, 3272-3281.	4.6	48
29	Thermal Modeling in Biological Tissues. , 1980, , 77-97.		40
30	In-vivo retinal imaging with off-axis full-field time-domain optical coherence tomography. Optics Letters, 2016, 41, 4987.	3.3	39
31	Transscleral Optical Coherence Tomography. JAMA Ophthalmology, 2002, 120, 816.	2.4	38
32	First Experimental and Clinical Results With Transscleral Optical Coherence Tomography. Ophthalmic Surgery Lasers and Imaging Retina, 2000, 31, 218-222.	0.7	38
33	Threshold Determinations for Selective Retinal Pigment Epithelium Damage With Repetitive Pulsed Microsecond Laser Systems in Rabbits. Ophthalmic Surgery Lasers and Imaging Retina, 2002, 33, 400-409.	0.7	38
34	Benzoporphyrin-Lipoprotein-Mediated Photodestruction of Intraocular Tumors. Experimental Eye Research, 1996, 62, 1-10.	2.6	36
35	Selective retina therapy (SRT) of chronic subfoveal fluid after surgery of rhegmatogenous retinal detachment: three case reports. Graefe's Archive for Clinical and Experimental Ophthalmology, 2008, 246, 1373-1378.	1.9	35
36	Factors determining the refractive effects of intrastromal photorefractive keratectomy with the picosecond laser. Journal of Cataract and Refractive Surgery, 1997, 23, 1301-1310.	1.5	34

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37	Filtering Bleb Evaluation with Slit-Lamp-Adapted 1310-nm Optical Coherence Tomography. Current Eye Research, 2006, 31, 909-915.	1.5	32
38	Continuous-wave diode laserthermokeratoplasty: First clinical experience in blind human eyes. Journal of Cataract and Refractive Surgery, 1999, 25, 32-40.	1.5	28
39	Selective retina therapy: toward an optically controlled automatic dosing. Journal of Biomedical Optics, 2018, 23, 1.	2.6	27
40	Variability of RPE reaction in two cases after selective RPE laser effects in prophylactic treatment of drusen. Graefe's Archive for Clinical and Experimental Ophthalmology, 1999, 237, 45-50.	1.9	26
41	Three-dimensional imaging of pigment epithelial detachment in age-related macular degeneration using optical coherence tomography, retinal thickness analysis and topographic angiography. Graefe's Archive for Clinical and Experimental Ophthalmology, 2006, 244, 1233-1239.	1.9	26
42	Selective retina therapy (SRT) in patients with geographic atrophy due to age-related macular degeneration. Graefe's Archive for Clinical and Experimental Ophthalmology, 2010, 248, 651-658.	1.9	26
43	Dynamic reflectometer for control of laser photocoagulation on the retina. Lasers in Surgery and Medicine, 1994, 15, 54-61.	2.1	25
44	Therapeutic range of repetitive nanosecond laser exposures in selective RPE photocoagulation. , 1998, 236, 213.		25
45	Diode laser thermokeratoplasty: Application strategy and dosimetry. Journal of Cataract and Refractive Surgery, 1998, 24, 1195-1207.	1.5	25
46	Intraocular microsurgery with a picosecond Nd:YAG laser. Lasers in Surgery and Medicine, 1994, 15, 44-53.	2.1	24
47	Treatment of vasospasm with a 480-nm pulsed-dye laser. Journal of Neurosurgery, 1991, 75, 613-622.	1.6	21
48	High Precision Cell Surgery with Nanoparticles?. Medical Laser Application: International Journal for Laser Treatment and Research, 2002, 17, 9-14.	0.3	21
49	Investigation of selective retina treatment (SRT) by means of 8 ns laser pulses in a rabbit model. Lasers in Surgery and Medicine, 2008, 40, 20-27.	2.1	21
50	Enhanced quantification of metabolic activity for individual adipocytes by label-free FLIM. Scientific Reports, 2018, 8, 8757.	3.3	19
51	Model system for investigating laser-induced subcellular microeffects. , 2001, , .		18
52	Corneal collagen denaturation in laser thermokeratoplasty. , 1996, 2681, 56.		17
53	Selective Equatorial Sclera Crosslinking in the Orbit Using a Metal-Coated Polymer Waveguide. , 2019, 60, 2563.		17
54	Targeting of the retinal pigment epithelium (RPE) by means of a rapidly scanned continuous wave (CW) laser beam. Lasers in Surgery and Medicine, 2003, 32, 252-264.	2.1	16

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55	Characterization of leakage activity in exudative chorioretinal disease with three-dimensional confocal angiography. <i>Ophthalmology</i> , 2003, 110, 687-697.	5.2	16
56	Simple approach for aberration-corrected OCT imaging of the human retina. <i>Optics Letters</i> , 2018, 43, 4224.	3.3	16
57	Corneal Endothelial Cell Damage After Experimental Diode Laser Thermal Keratoplasty. <i>Journal of Refractive Surgery</i> , 2000, 16, 323-329.	2.3	16
58	Application of the 1-Åsec pulsed-dye laser to the treatment of experimental cerebral vasospasm. <i>Journal of Neurosurgery</i> , 1991, 75, 271-276.	1.6	15
59	Correlation of temperature rise and optical coherence tomography characteristics in patient retinal photocoagulation. <i>Journal of Biophotonics</i> , 2012, 5, 889-902.	2.3	15
60	First Assessment of a Carbon Monoxide Laser and a Thulium Fiber Laser for Fractional Ablation of Skin. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 788-798.	2.1	15
61	Transscleral optical coherence tomography?An experimental study in ex-vivo human eyes. <i>Lasers in Surgery and Medicine</i> , 2002, 30, 209-215.	2.1	14
62	Choroidal Circulation and Heat Convection at the Fundus of the Eye Implications for Laser Coagulation and the Stabilization of Retinal Temperature. , 1991, , 277-361.		14
63	Investigations on Retinal Pigment Epithelial Damage at Laser Irradiation in the Lower Microsecond Time Regime. , 2021, 62, 32.		13
64	Threshold determinations for selective retinal pigment epithelium damage with repetitive pulsed microsecond laser systems in rabbits. <i>Ophthalmic Surgery and Lasers</i> , 2002, 33, 400-9.	0.2	13
65	Micro-optical coherence tomography for high-resolution morphologic imaging of cellular and nerval corneal micro-structures. <i>Biomedical Optics Express</i> , 2020, 11, 5920.	2.9	12
66	Online autofluorescence measurements during selective RPE laser treatment. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2004, 242, 863-869.	1.9	11
67	Low Intensity Argon Laser Coagulation in Central Serous Retinopathy (CSR). <i>Ophthalmologica</i> , 1975, 171, 214-223.	1.9	10
68	Biomedical optics centers: forty years of multidisciplinary clinical translation for improving human health. <i>Journal of Biomedical Optics</i> , 2016, 21, 124001.	2.6	10
69	Interface Bonding With Corneal Crosslinking (CXL) After LASIK Ex Vivo. , 2017, 58, 6292.		8
70	Mitomycin-C in Laser Sclerostomy: Benefit and Complications. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 1997, 28, 14-20.	0.7	8
71	Ablation Dynamics in Laser Sclerostomy Ab Externo by Means of Pulsed Lasers in the Mid-Infrared Spectral Range. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 1997, 28, 853-865.	0.7	8
72	Transscleral and indirect ophthalmoscope diode laser retinal photocoagulation : Experimental quantification of the therapeutic range for their application in the treatment of retinopathy of prematurity. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 1993, 231, 378-383.	1.9	7

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73	<title>Laser thermokeratoplasty: analysis of in-vitro results and refractive changes achieved in a first clinical study</title>. , 1997, 3192, 180.		7
74	Evaluation of the New Photosensitizer Tookad (WST09) for Photodynamic Vessel Occlusion of the Choroidal Tissue in Rabbits. , 2006, 47, 5437.		7
75	Clinical Evaluation of Experimentally Induced Choroidal Neovascularizations in Pigmented Rabbits by Subretinal Injection of Lipid Hydroperoxide and Consecutive Preliminary Photodynamic Treatment with Tookad. Ophthalmologica, 2008, 222, 254-264.	1.9	7
76	Assessment of skin lesions produced by focused, tunable, midâ€infrared chalcogenide laser radiation. Lasers in Surgery and Medicine, 2018, 50, 961-972.	2.1	7
77	<title>Biomechanical basis for laser thermokeratoplasty</title>. , 1996, 2930, 25.		6
78	Refractive Changes After Corneal Stromal Filler Injection for the Correction of Hyperopia. Journal of Refractive Surgery, 2020, 36, 406-413.	2.3	6
79	Correction of hyperopia by intrastromal cutting and liquid filler injection. Journal of Biomedical Optics, 2019, 24, 1.	2.6	6
80	Ocular Side Effects Following Neodymium:YAG Laser Irradiation. International Ophthalmology Clinics, 1985, 25, 137-149.	0.7	5
81	Retinal response of Macaca mulatta to picosecond laser pulses of varying energy and spot size. Journal of Biomedical Optics, 2004, 9, 1288.	2.6	5
82	Mechanism of Photodynamic Occlusion Using Liposomal Zn(II)-Phtalocyanine. Current Eye Research, 2005, 30, 601-612.	1.5	4
83	Algorithms for optoacoustically controlled selective retina therapy (SRT). Photoacoustics, 2022, 25, 100316.	7.8	4
84	Optoacoustic detection of selective RPE cell damage during 1/4s-laser irradiation. , 2001, , .		3
85	Optoacoustic online temperature determination during retinal laser photocoagulation. , 2007, , .		3
86	Lesion strength control by automatic temperature guided retinal photocoagulation. Journal of Biomedical Optics, 2016, 21, 098001.	2.6	3
87	Stromal Nerve Imaging and Tracking Using Micro-Optical Coherence Tomography. Translational Vision Science and Technology, 2020, 9, 6.	2.2	3
88	Corneal Stromal Filler Injection as a Novel Approach to Correct Presbyopiaâ€An <i>Ex Vivo</i> Pilot Study. Translational Vision Science and Technology, 2020, 9, 30.	2.2	3
89	<title>Laser thermokeratoplasty: determination of biomechanical properties of the cornea</title>. , 1996, 2624, 17.		2
90	In-vivo diagnostic with optical coherence tomography: use in dermatology. , 1997, 2970, 299.		1

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91	Advances in Imaging of Subbasal Corneal Nerves With Micro‐Optical Coherence Tomography. Translational Vision Science and Technology, 2021, 10, 22.	2.2	1
92	<title>First experiences with a slitlamp-adapted optical coherence tomography (OCT) system in the anterior and posterior segment of the eye</title>. , 1999, 3564, 158.		0
93	Optical Coherence Tomography in the Anterior Segment of the Eye Hans Hoerauf and Reginald Birngruber. , 2001, , 487-503.		0
94	Clinical OCT Studies in Dermatology: Inflammatory Skin Diseases and Treatment Effects. , 1999, , .		0