

# Reginald Birngruber

## List of Publications by Year in descending order

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94  
papers

4,151  
citations

117571

34  
h-index

118793

62  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2593  
citing authors

#	ARTICLE	IF	CITATIONS
1	Algorithms for optoacoustically controlled selective retina therapy (SRT). <i>Photoacoustics</i> , 2022, 25, 100316.	4.4	4
2	Investigations on Retinal Pigment Epithelial Damage at Laser Irradiation in the Lower Microsecond Time Regime. , 2021, 62, 32.		13
3	Advances in Imaging of Subbasal Corneal Nerves With Micro-Optical Coherence Tomography. <i>Translational Vision Science and Technology</i> , 2021, 10, 22.	1.1	1
4	Stromal Nerve Imaging and Tracking Using Micro-Optical Coherence Tomography. <i>Translational Vision Science and Technology</i> , 2020, 9, 6.	1.1	3
5	Corneal Stromal Filler Injection as a Novel Approach to Correct Presbyopia—An <i>Ex Vivo</i> Pilot Study. <i>Translational Vision Science and Technology</i> , 2020, 9, 30.	1.1	3
6	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.	1.1	15
7	Micro-optical coherence tomography for high-resolution morphologic imaging of cellular and neural corneal micro-structures. <i>Biomedical Optics Express</i> , 2020, 11, 5920.	1.5	12
8	Refractive Changes After Corneal Stromal Filler Injection for the Correction of Hyperopia. <i>Journal of Refractive Surgery</i> , 2020, 36, 406-413.	1.1	6
9	Selective Equatorial Sclera Crosslinking in the Orbit Using a Metal-Coated Polymer Waveguide. , 2019, 60, 2563.		17
10	Correction of hyperopia by intrastromal cutting and liquid filler injection. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	6
11	Assessment of skin lesions produced by focused, tunable, mid-infrared chalcogenide laser radiation. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 961-972.	1.1	7
12	Simple approach for aberration-corrected OCT imaging of the human retina. <i>Optics Letters</i> , 2018, 43, 4224.	1.7	16
13	Enhanced quantification of metabolic activity for individual adipocytes by label-free FLIM. <i>Scientific Reports</i> , 2018, 8, 8757.	1.6	19
14	Selective retina therapy: toward an optically controlled automatic dosing. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	27
15	Interface Bonding With Corneal Crosslinking (CXL) After LASIK <i>Ex Vivo</i> . , 2017, 58, 6292.		8
16	In-vivo retinal imaging with off-axis full-field time-domain optical coherence tomography. <i>Optics Letters</i> , 2016, 41, 4987.	1.7	39
17	Biomedical optics centers: forty years of multidisciplinary clinical translation for improving human health. <i>Journal of Biomedical Optics</i> , 2016, 21, 124001.	1.4	10
18	Lesion strength control by automatic temperature guided retinal photocoagulation. <i>Journal of Biomedical Optics</i> , 2016, 21, 098001.	1.4	3

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19	Light-Controlled Delivery of Monoclonal Antibodies for Targeted Photoinactivation of Ki-67. <i>Molecular Pharmaceutics</i> , 2015, 12, 3272-3281.	2.3	48
20	Non-invasive transdermal two-dimensional mapping of cutaneous oxygenation with a rapid-drying liquid bandage. <i>Biomedical Optics Express</i> , 2014, 5, 3748.	1.5	66
21	Real-time temperature determination during retinal photocoagulation on patients. <i>Journal of Biomedical Optics</i> , 2012, 17, 061219.	1.4	66
22	Imaging thermal expansion and retinal tissue changes during photocoagulation by high speed OCT. <i>Biomedical Optics Express</i> , 2012, 3, 1025.	1.5	61
23	Correlation of temperature rise and optical coherence tomography characteristics in patient retinal photocoagulation. <i>Journal of Biophotonics</i> , 2012, 5, 889-902.	1.1	15
24	Selective retina therapy (SRT) in patients with geographic atrophy due to age-related macular degeneration. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2010, 248, 651-658.	1.0	26
25	Selective retina therapy (SRT) for clinically significant diabetic macular edema. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2010, 248, 1263-1272.	1.0	97
26	Selective retina therapy (SRT) of chronic subfoveal fluid after surgery of rhegmatogenous retinal detachment: three case reports. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2008, 246, 1373-1378.	1.0	35
27	Investigation of selective retina treatment (SRT) by means of 8 ns laser pulses in a rabbit model. <i>Lasers in Surgery and Medicine</i> , 2008, 40, 20-27.	1.1	21
28	Clinical Evaluation of Experimentally Induced Choroidal Neovascularizations in Pigmented Rabbits by Subretinal Injection of Lipid Hydroperoxide and Consecutive Preliminary Photodynamic Treatment with Tookad. <i>Ophthalmologica</i> , 2008, 222, 254-264.	1.0	7
29	Optoacoustic online temperature determination during retinal laser photocoagulation. , 2007, , .		3
30	Filtering Bleb Evaluation with Slit-Lamp-Adapted 1310-nm Optical Coherence Tomography. <i>Current Eye Research</i> , 2006, 31, 909-915.	0.7	32
31	Three-dimensional imaging of pigment epithelial detachment in age-related macular degeneration using optical coherence tomography, retinal thickness analysis and topographic angiography. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2006, 244, 1233-1239.	1.0	26
32	Evaluation of the New Photosensitizer Tookad (WST09) for Photodynamic Vessel Occlusion of the Choroidal Tissue in Rabbits. , 2006, 47, 5437.		7
33	Noninvasive optoacoustic online retinal temperature determination during continuous-wave laser irradiation. <i>Journal of Biomedical Optics</i> , 2006, 11, 041111.	1.4	70
34	Mechanism of Photodynamic Occlusion Using Liposomal Zn(II)-Phtalocyanine. <i>Current Eye Research</i> , 2005, 30, 601-612.	0.7	4
35	Optoacoustic real-time dosimetry for selective retina treatment. <i>Journal of Biomedical Optics</i> , 2005, 10, 064022.	1.4	60
36	Intraoperative 2-Dimensional Optical Coherence Tomography as a New Tool for Anterior Segment Surgery. <i>JAMA Ophthalmology</i> , 2005, 123, 253.	2.6	95

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37	Retinal response of <i>Macaca mulatta</i> to picosecond laser pulses of varying energy and spot size. <i>Journal of Biomedical Optics</i> , 2004, 9, 1288.	1.4	5
38	Online autofluorescence measurements during selective RPE laser treatment. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2004, 242, 863-869.	1.0	11
39	Influence of pulse duration and pulse number in selective RPE laser treatment. <i>Lasers in Surgery and Medicine</i> , 2004, 34, 206-215.	1.1	66
40	Targeting of the retinal pigment epithelium (RPE) by means of a rapidly scanned continuous wave (CW) laser beam. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 252-264.	1.1	16
41	Characterization of leakage activity in exudative chorioretinal disease with three-dimensional confocal angiography. <i>Ophthalmology</i> , 2003, 110, 687-697.	2.5	16
42	Transscleral Optical Coherence Tomography. <i>JAMA Ophthalmology</i> , 2002, 120, 816.	2.6	38
43	Noncontact corneal pachymetry with slit lamp-adapted optical coherence tomography. <i>American Journal of Ophthalmology</i> , 2002, 133, 444-450.	1.7	97
44	Transscleral optical coherence tomography?An experimental study in ex-vivo human eyes. <i>Lasers in Surgery and Medicine</i> , 2002, 30, 209-215.	1.1	14
45	High Precision Cell Surgery with Nanoparticles?. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2002, 17, 9-14.	0.4	21
46	Threshold Determinations for Selective Retinal Pigment Epithelium Damage With Repetitive Pulsed Microsecond Laser Systems in Rabbits. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2002, 33, 400-409.	0.4	38
47	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
48	Optoacoustic detection of selective RPE cell damage during $\frac{1}{4}$ s-laser irradiation. , 2001, , .		3
49	Model system for investigating laser-induced subcellular microeffects. , 2001, , .		18
50	Optical Coherence Tomography in the Anterior Segment of the Eye Hans Hoerauf and Reginald Birngruber. , 2001, , 487-503.		0
51	Thermal and Biomechanical Parameters of Porcine Cornea. <i>Cornea</i> , 2000, 19, 355-363.	0.9	189
52	Origin of retinal pigment epithelium cell damage by pulsed laser irradiance in the nanosecond to microsecond time regimen. <i>Lasers in Surgery and Medicine</i> , 2000, 27, 451-464.	1.1	193
53	Corneal optical coherence tomography before and immediately after excimer laser photorefractive keratectomy. <i>American Journal of Ophthalmology</i> , 2000, 130, 693-699.	1.7	64
54	Influence of temperature and time on thermally induced forces in corneal collagen and the effect on laser thermokeratoplasty. <i>Journal of Cataract and Refractive Surgery</i> , 2000, 26, 744-754.	0.7	60

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55	Corneal Endothelial Cell Damage After Experimental Diode Laser Thermal Keratoplasty. Journal of Refractive Surgery, 2000, 16, 323-329.	1.1	16
56	First Experimental and Clinical Results With Transscleral Optical Coherence Tomography. Ophthalmic Surgery Lasers and Imaging Retina, 2000, 31, 218-222.	0.4	38
57	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.	1.0	26
58	Continuous-wave diode laserthermokeratoplasty: First clinical experience in blind human eyes. Journal of Cataract and Refractive Surgery, 1999, 25, 32-40.	0.7	28
59	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
60	<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
61	Clinical OCT Studies in Dermatology: Inflammatory Skin Diseases and Treatment Effects. , 1999, , .		0
62	Therapeutic range of repetitive nanosecond laser exposures in selective RPE photocoagulation. , 1998, 236, 213.		25
63	Photodynamic therapy of subfoveal choroidal neovascularization: clinical and angiographic examples. Graefe's Archive for Clinical and Experimental Ophthalmology, 1998, 236, 365-374.	1.0	119
64	Diode laser thermokeratoplasty: Application strategy and dosimetry. Journal of Cataract and Refractive Surgery, 1998, 24, 1195-1207.	0.7	25
65	In-vivo diagnostic with optical coherence tomography: use in dermatology. , 1997, 2970, 299.		1
66	<title>Laser thermokeratoplasty: analysis of in-vitro results and refractive changes achieved in a first clinical study</title>. , 1997, 3192, 180.		7
67	Argon Laser Retinal Lesions Evaluated In Vivo by Optical Coherence Tomography. American Journal of Ophthalmology, 1997, 123, 188-198.	1.7	75
68	Factors determining the refractive effects of intrastromal photorefractive keratectomy with the picosecond laser. Journal of Cataract and Refractive Surgery, 1997, 23, 1301-1310.	0.7	34
69	Contrast limits of coherence-gated imaging in scattering media. Applied Optics, 1997, 36, 2979.	2.1	61
70	Optical coherence tomography of the human skin. Journal of the American Academy of Dermatology, 1997, 37, 958-963.	0.6	393
71	Mitomycin-C in Laser Sclerostomy: Benefit and Complications. Ophthalmic Surgery Lasers and Imaging Retina, 1997, 28, 14-20.	0.4	8
72	Ablation Dynamics in Laser Sclerostomy Ab Externo by Means of Pulsed Lasers in the Mid-Infrared Spectral Range. Ophthalmic Surgery Lasers and Imaging Retina, 1997, 28, 853-865.	0.4	8

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73	Benzoporphyrin-Lipoprotein-Mediated Photodestruction of Intraocular Tumors. <i>Experimental Eye Research</i> , 1996, 62, 1-10.	1.2	36
74	Corneal collagen denaturation in laser thermokeratoplasty. , 1996, 2681, 56.		17
75	<title>Laser thermokeratoplasty: determination of biomechanical properties of the cornea</title>. , 1996, 2624, 17.		2
76	<title>Biomechanical basis for laser thermokeratoplasty</title>. , 1996, 2930, 25.		6
77	In vivo uptake of liposomal benzoporphyrin derivative and photothrombosis in experimental corneal neovascularization. <i>Lasers in Surgery and Medicine</i> , 1995, 17, 178-188.	1.1	95
78	Low-coherence optical tomography in turbid tissue: theoretical analysis. <i>Applied Optics</i> , 1995, 34, 6564.	2.1	127
79	Mechanisms of intraocular photodisruption with picosecond and nanosecond laser pulses. <i>Lasers in Surgery and Medicine</i> , 1994, 15, 32-43.	1.1	171
80	Intraocular microsurgery with a picosecond Nd:YAG laser. <i>Lasers in Surgery and Medicine</i> , 1994, 15, 44-53.	1.1	24
81	Dynamic reflectometer for control of laser photocoagulation on the retina. <i>Lasers in Surgery and Medicine</i> , 1994, 15, 54-61.	1.1	25
82	Photodynamic Therapy of Experimental Choroidal Melanoma Using Lipoprotein-delivered Benzoporphyrin. <i>Ophthalmology</i> , 1994, 101, 89-99.	2.5	124
83	Vascular Targeting in Photodynamic Occlusion of Subretinal Vessels. <i>Ophthalmology</i> , 1994, 101, 1953-1961.	2.5	248
84	RELAXATION OF VASCULAR SMOOTH MUSCLE INDUCED BY LOW-POWER LASER RADIATION. <i>Photochemistry and Photobiology</i> , 1993, 58, 661-669.	1.3	48
85	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.	1.0	7
86	Mid-Infrared laser ablation of the cornea: A comparative study. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 274-281.	1.1	61
87	Optical properties of human sclera, and their consequences for transscleral laser applications. <i>Lasers in Surgery and Medicine</i> , 1991, 11, 331-340.	1.1	160
88	Application of the 1- $\mu$ sec pulsed-dye laser to the treatment of experimental cerebral vasospasm. <i>Journal of Neurosurgery</i> , 1991, 75, 271-276.	0.9	15
89	Treatment of vasospasm with a 480-nm pulsed-dye laser. <i>Journal of Neurosurgery</i> , 1991, 75, 613-622.	0.9	21
90	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

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91	Picosecond optical breakdown: Tissue effects and reduction of collateral damage. Lasers in Surgery and Medicine, 1989, 9, 193-204.	1.1	89
92	Ocular Side Effects Following Neodymium:YAG Laser Irradiation. International Ophthalmology Clinics, 1985, 25, 137-149.	0.3	5
93	Thermal Modeling in Biological Tissues. , 1980, , 77-97.		40
94	Low Intensity Argon Laser Coagulation in Central Serous Retinopathy (CSR). Ophthalmologica, 1975, 171, 214-223.	1.0	10