

Ralf Brinkmann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2607883/publications.pdf>

Version: 2024-02-01

194
papers

3,689
citations

136740

32
h-index

182168

51
g-index

207
all docs

207
docs citations

207
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	Algorithms for optoacoustically controlled selective retina therapy (SRT). <i>Photoacoustics</i> , 2022, 25, 100316.	4.4	4
2	OCT-Guided Surgery for Gliomas: Current Concept and Future Perspectives. <i>Diagnostics</i> , 2022, 12, 335.	1.3	14
3	Response of Retinal Pigment Epithelium (RPE)â€Choroid Explants to Thermal Stimulation Therapy of the RPE (TSR). <i>Lasers in Surgery and Medicine</i> , 2021, 53, 359-369.	1.1	3
4	Selective retina therapy (SRT) for macular serous retinal detachment associated with tilted disc syndrome. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2021, 259, 387-393.	1.0	3
5	State and parameter estimation for model-based retinal laser treatment. <i>IFAC-PapersOnLine</i> , 2021, 54, 244-250.	0.5	5
6	Investigations on Retinal Pigment Epithelial Damage at Laser Irradiation in the Lower Microsecond Time Regime. , 2021, 62, 32.		13
7	Factors affecting resolution of subretinal fluid after selective retina therapy for central serous chorioretinopathy. <i>Scientific Reports</i> , 2021, 11, 8973.	1.6	12
8	Dynamic OCT Signal Loss for Determining RPE Radiant Exposure Damage Thresholds in Microsecond Laser Microsurgery. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5535.	1.3	5
9	Fluorescence Lifetime Changes Induced by Laser Irradiation: A Preclinical Study towards the Evaluation of Retinal Metabolic States. <i>Life</i> , 2021, 11, 555.	1.1	2
10	Time-encoded stimulated Raman scattering microscopy of tumorous human pharynx tissue in the fingerprint region from 1500â€“1800â€‰cm ⁻¹ . <i>Optics Letters</i> , 2021, 46, 3456.	1.7	5
11	Selective retina therapy and thermal stimulation of the retina: different regenerative properties - implications for AMD therapy. <i>BMC Ophthalmology</i> , 2021, 21, 412.	0.6	2
12	Towards temperature controlled retinal laser treatment with a single laser at 10â€‰kHz repetition rate. <i>Advanced Optical Technologies</i> , 2021, 10, 423-431.	0.9	4
13	Single pulse optoacoustic temperature measurement. , 2021, , .		0
14	Laser coagulation of brain tissue at 1480 nm and 1940 nm wavelengths. , 2021, , .		0
15	Exploiting the aiming beam to increase the safety of laser lithotripsy: Experimental evaluation of light reflection and fluorescence. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 456-471.	1.1	5
16	Modulation of inflammatory processes by thermal stimulating and RPE regenerative laser therapies in age related macular degeneration mouse models. <i>Cytokine: X</i> , 2020, 2, 100031.	0.5	2
17	Selective retina therapy for subretinal fluid associated with choroidal nevus. <i>American Journal of Ophthalmology Case Reports</i> , 2020, 19, 100794.	0.4	4
18	Capabilities and limitations of a new thermal finite volume model for the evaluation of laser-induced thermo-mechanical retinal damage. <i>Computers in Biology and Medicine</i> , 2020, 122, 103835.	3.9	5

#	ARTICLE	IF	CITATIONS
19	Laser-induced lithotripsy: a review, insight into laboratory work, and lessons learned. <i>Translational Biophotonics</i> , 2020, 2, e201900029.	1.4	6
20	Predictive factors of outcome of selective retina therapy for diabetic macular edema. <i>International Ophthalmology</i> , 2020, 40, 1221-1232.	0.6	9
21	Modeling and parameter identification for real-time temperature controlled retinal laser therapies. <i>Automatisierungstechnik</i> , 2020, 68, 953-966.	0.4	7
22	Segmented OCT data set for depth resolved brain tumor detection validated by histological analysis. , 2020, , .		2
23	Modeling and Temperature Control of Retinal Laser Therapy. <i>IFAC-PapersOnLine</i> , 2020, 53, 16451-16456.	0.5	4
24	Fluorescence Lifetime Imaging Ophthalmoscopy of the Retinal Pigment Epithelium During Wound Healing After Laser Irradiation. <i>Translational Vision Science and Technology</i> , 2019, 8, 12.	1.1	4
25	Real-time optoacoustic temperature determination on cell cultures during heat exposure: a feasibility study. <i>International Journal of Hyperthermia</i> , 2019, 36, 465-471.	1.1	4
26	Selective Retina Therapy Reduces Bruch's Membrane Thickness and Retinal Pigment Epithelium Pathology in Age-Related Macular Degeneration Mouse Models. <i>Translational Vision Science and Technology</i> , 2019, 8, 11.	1.1	17
27	Towards Automatically Controlled Dosing for Selective Laser Trabeculoplasty. <i>Translational Vision Science and Technology</i> , 2019, 8, 24.	1.1	5
28	Selective Retina Therapy. , 2019, , 237-259.		3
29	Optical coherence tomography controlled selective retina therapy with a novel microsecond laser. , 2019, , .		4
30	Virtual HE histology by fiber-based picosecond two-photon microscopy. , 2019, , .		1
31	Dosimetry for microsecond selective laser trabeculoplasty. , 2019, , .		0
32	Ex vivo investigation of different $\frac{1}{4}$ s laser pulse durations for selective retina therapy. , 2019, , .		3
33	Heating and optoacoustic temperature determination of cell cultures. , 2019, , .		0
34	Ex vivo and in vivo imaging of human brain tissue with different OCT systems. , 2019, , .		1
35	Expression of heat shock protein 70 and cell death kinetics after different thermal impacts on cultured retinal pigment epithelial cells. <i>Experimental Eye Research</i> , 2018, 170, 117-126.	1.2	19
36	Comparison of the neuroinflammatory responses to selective retina therapy and continuous-wave laser photocoagulation in mouse eyes. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2018, 256, 341-353.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Thermal Stimulation of the Retina Reduces Bruch's Membrane Thickness in Age Related Macular Degeneration Mouse Models. Translational Vision Science and Technology, 2018, 7, 2.	1.1	29
38	Temperature-controlled laser therapy of the retina via robust adaptive H_{∞} -control. Automatisierungstechnik, 2018, 66, 1051-1063.	0.4	11
39	Release of Different Cell Mediators During Retinal Pigment Epithelium Regeneration Following Selective Retina Therapy. , 2018, 59, 1323.		33
40	Selective retina therapy: toward an optically controlled automatic dosing. Journal of Biomedical Optics, 2018, 23, 1.	1.4	27
41	Toward automated selective retina treatment (SRT): an optical microbubble detection technique. , 2018, , .		1
42	Stone/tissue differentiation for Holmium laser lithotripsy using autofluorescence: Clinical proof of concept study. Lasers in Surgery and Medicine, 2017, 49, 361-365.	1.1	12
43	Continuous-wave Thulium Laser for Heating Cultured Cells to Investigate Cellular Thermal Effects. Journal of Visualized Experiments, 2017, , .	0.2	3
44	Retinal sensitivity after selective retina therapy (SRT) on patients with central serous chorioretinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 243-254.	1.0	30
45	Noncontact holographic detection for photoacoustic tomography. Journal of Biomedical Optics, 2017, 22, 1.	1.4	9
46	Power-controlled temperature guided retinal laser therapy. Journal of Biomedical Optics, 2017, 22, 1.	1.4	21
47	Real time speckle monitoring to control retinal photocoagulation. Proceedings of SPIE, 2017, , .	0.8	1
48	Evaluation of an optoacoustic based gas analysing device. , 2017, , .		0
49	Retinal Pigment Epithelium Responses to Selective Retina Therapy in Mouse Eyes. , 2016, 57, 3486.		17
50	Biomedical optics centers: forty years of multidisciplinary clinical translation for improving human health. Journal of Biomedical Optics, 2016, 21, 124001.	1.4	10
51	Safety and efficacy of selective retina therapy (SRT) for the treatment of diabetic macular edema in Korean patients. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 1703-1713.	1.0	35
52	Towards real time speckle controlled retinal photocoagulation. Proceedings of SPIE, 2016, , .	0.8	0
53	Lesion strength control by automatic temperature guided retinal photocoagulation. Journal of Biomedical Optics, 2016, 21, 098001.	1.4	3
54	Selective Retina Therapy in Patients With Chronic Central Serous Chorioretinopathy. Medicine (United Tj ETQq0 0 0 rBT /Overlock 10	0.48	32

#	ARTICLE	IF	CITATIONS
55	Selective Retina Therapy in Acute and Chronic-Recurrent Central Serous Chorioretinopathy. <i>Ophthalmologica</i> , 2015, 234, 177-188.	1.0	32
56	Resection of Calcified Aortic Heart Leaflets In Vitro by Q-Switched 2-µm Microsecond Laser Radiation. <i>Journal of Cardiac Surgery</i> , 2015, 30, 157-162.	0.3	10
57	Stone/tissue differentiation for holmium laser lithotripsy using autofluorescence. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 737-744.	1.1	16
58	Time-Resolved Ultra-High Resolution Optical Coherence Tomography for Real-Time Monitoring of Selective Retina Therapy. , 2015, 56, 6654.		16
59	Temperature-Controlled Retinal Photocoagulation Reliably Generates Uniform Subvisible, Mild, or Moderate Lesions. <i>Translational Vision Science and Technology</i> , 2015, 4, 9.	1.1	9
60	Functional Evaluation Using Multifocal Electroretinogram After Selective Retina Therapy With a Microsecond-Pulsed Laser. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 122-131.	3.3	24
61	A Comparative Study of Retinal Function in Rabbits after Panretinal Selective Retina Therapy versus Conventional Panretinal Photocoagulation. <i>Journal of Ophthalmology</i> , 2015, 2015, 1-8.	0.6	5
62	Power-controlled temperature guided retinal photocoagulation. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
63	Full-field speckle interferometry for non-contact photoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2015, 60, 4045-4058.	1.6	34
64	Differentiation of tissue and kidney stones for laser lithotripsy using different spectroscopic approaches. , 2015, , .		1
65	Comprehensive Detection, Grading, and Growth Behavior Evaluation of Subthreshold and Low Intensity Photocoagulation Lesions by Optical Coherence Tomographic and Infrared Image Analysis. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	9
66	Laser speckle tracking for monitoring and analysis of retinal photocoagulation. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
67	Optical full-field holographic detection system for non-contact photoacoustic tomography. , 2014, , .		2
68	Stone/tissue differentiation during intracorporeal lithotripsy using diffuse white light reflectance spectroscopy: In vitro and clinical measurements. <i>Lasers in Surgery and Medicine</i> , 2014, 46, 614-619.	1.1	5
69	Tissue response of selective retina therapy by means of a feedback-controlled energy ramping mode. <i>Clinical and Experimental Ophthalmology</i> , 2014, 42, 846-855.	1.3	33
70	Protective effect of a laser-induced sub-lethal temperature rise on RPE cells from oxidative stress. <i>Experimental Eye Research</i> , 2014, 124, 37-47.	1.2	37
71	Calibration of histological retina specimens after fixation in Margo's solution and paraffin embedding to in-vivo dimensions, using photography and optical coherence tomography. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2014, 252, 145-153.	1.0	4
72	Gain broadening and mode-locking in overcoupled second harmonic Q-switched microsecond pulses. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 105209.	1.0	0

#	ARTICLE	IF	CITATIONS
73	Consolidated numerical temperature/pressure modelling to assess the accuracy of optoacoustic temperature determination during retinal photocoagulation. , 2014, , .		1
74	Temperature controlled retinal photocoagulation. , 2013, , .		1
75	A numerical model for heat and pressure propagation for temperature controlled retinal photocoagulation. , 2013, , .		2
76	Automatic irradiation control by an optical feedback technique for selective retina treatment (SRT) in a rabbit model. Proceedings of SPIE, 2013, , .	0.8	9
77	Two-Photon Microscopy and Fluorescence Lifetime Imaging of Retinal Pigment Epithelial Cells Under Oxidative Stress. , 2013, 54, 3366.		30
78	Correlation with OCT and histology of photocoagulation lesions in patients and rabbits. Acta Ophthalmologica, 2013, 91, e603-e611.	0.6	25
79	Damage of Stone Baskets by Endourologic Lithotripters: A Laboratory Study of 5 Lithotripters and 4 Basket Types. Advances in Urology, 2013, 2013, 1-6.	0.6	14
80	Photocoagulation in rabbits: Optical coherence tomographic lesion classification, wound healing reaction, and retinal temperatures. Lasers in Surgery and Medicine, 2013, 45, 427-436.	1.1	10
81	Cardiovascular damage after cw and Q-switched 21¼4m laser irradiation. Proceedings of SPIE, 2013, , .	0.8	0
82	Non-contact photoacoustic tomography using holographic full field detection. , 2013, , .		1
83	Temporally stretched Q-switched pulses in the 21¼4m spectral range. Laser Physics Letters, 2012, 9, 808-813.	0.6	4
84	Real-time temperature determination during retinal photocoagulation on patients. Journal of Biomedical Optics, 2012, 17, 061219.	1.4	66
85	Automatic temperature controlled retinal photocoagulation. Journal of Biomedical Optics, 2012, 17, 061223.	1.4	44
86	Imaging thermal expansion and retinal tissue changes during photocoagulation by high speed OCT. Biomedical Optics Express, 2012, 3, 1025.	1.5	61
87	Vectorial release of matrix metalloproteinases (MMPs) from porcine RPE-choroid explants following selective retina therapy (SRT): Towards slowing the macular ageing process. Experimental Eye Research, 2012, 97, 63-72.	1.2	44
88	Correlation of temperature rise and optical coherence tomography characteristics in patient retinal photocoagulation. Journal of Biophotonics, 2012, 5, 889-902.	1.1	15
89	Temperature-Controlled Retinal Photocoagulation â€“ A Step Toward Automated Laser Treatment. , 2012, 53, 3605.		29
90	Dynamics of laser induced micro bubble clusters on tissue phantoms. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
91	Realtime temperature determination during retinal photocoagulation on patients. Proceedings of SPIE, 2011, , .	0.8	4
92	Optoacoustic temperature determination and automatic coagulation control in rabbits. Proceedings of SPIE, 2011, , .	0.8	4
93	Imaging of temperature distribution and retinal tissue changes during photocoagulation by high speed OCT. , 2011, , .		3
94	A CASE OF RETINAL INJURY BY A VIOLET LIGHT-EMITTING DIODE. Retinal Cases and Brief Reports, 2011, 5, 223-226.	0.3	10
95	Photoacoustic blood vessel detection during surgical laser interventions. Proceedings of SPIE, 2011, , .	0.8	1
96	Selective retina therapy for acute central serous chorioretinopathy. British Journal of Ophthalmology, 2011, 95, 83-88.	2.1	64
97	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.	1.0	26
98	Selective retina therapy (SRT) for clinically significant diabetic macular edema. Graefe's Archive for Clinical and Experimental Ophthalmology, 2010, 248, 1263-1272.	1.0	97
99	Percutaneous Aortic Valve Replacement. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2010, 5, 55-59.	0.4	3
100	Response to Stanga et al.: Structural Changes of the Retina after Laser Photocoagulation in Spectral Domain Optical Coherence Tomography. Current Eye Research, 2010, 35, 257-258.	0.7	0
101	Percutaneous Aortic Valve Replacement. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2010, 5, 55-59.	0.4	1
102	Temperature dependence of water absorption for wavelengths at 1920 nm and 1940 nm. IFMBE Proceedings, 2009, , 2228-2229.	0.2	9
103	Structural Changes of the Retina after Conventional Laser Photocoagulation and Selective Retina Treatment (SRT) in Spectral Domain OCT. Current Eye Research, 2009, 34, 568-579.	0.7	57
104	Time resolved detection of tissue denaturation during retinal photocoagulation. Proceedings of SPIE, 2009, , .	0.8	5
105	Realtime Temperature Control towards Gentle Photocoagulation of the Retina. IFMBE Proceedings, 2009, , 476-479.	0.2	0
106	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.	1.0	35
107	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.	1.1	21
108	Comparison of threshold irradiances and online dosimetry for selective retina treatment (SRT) in patients treated with 200 nanoseconds and 1.7 microseconds laser pulses. Lasers in Surgery and Medicine, 2008, 40, 616-624.	1.1	28

#	ARTICLE	IF	CITATIONS
109	Numerical modelling of conductive and convective heat transfers in retinal laser applications. Journal of Biophotonics, 2008, 1, 43-52.	1.1	21
110	Self-limited growth of laser-induced vapor bubbles around single microabsorbers. Applied Physics Letters, 2008, 93, .	1.5	41
111	Interferometric optical online dosimetry for selective retina treatment (SRT). , 2007, 6632, 220.		1
112	Interferometric optical online dosimetry for selective retina treatment (SRT). , 2007, 6426, 245.		1
113	Selective Targeting of the Retinal Pigment Epithelium in Rabbit Eyes with a Scanning Laser Beam. , 2007, 48, 1782.		27
114	Influence of choroidal perfusion on retinal temperature increase during retinal laser treatments. , 2007, 6632, 247.		3
115	Dynamics and detection of laser induced microbubbles in the retinal pigment epithelium (RPE). , 2007, , .		0
116	Optoacoustic online temperature determination during retinal laser photocoagulation. , 2007, , .		3
117	Nucleation dynamics around single microabsorbers in water heated by nanosecond laser irradiation. Journal of Applied Physics, 2007, 101, 114701.	1.1	48
118	Er:YAG laser-assisted resection of human calcified heart valves. Medical Laser Application: International Journal for Laser Treatment and Research, 2007, 22, 7-14.	0.4	0
119	Potential of a new cw $2\hat{1}4\text{m}$ laser scalpel for laparoscopic surgery. Medical Laser Application: International Journal for Laser Treatment and Research, 2007, 22, 139-145.	0.4	36
120	Non-invasive optoacoustic temperature determination during retinal cw-laser treatments. , 2006, , .		0
121	Selective retina therapy in patients with central serous chorioretinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2006, 244, 1638-1645.	1.0	87
122	Noninvasive optoacoustic online retinal temperature determination during continuous-wave laser irradiation. Journal of Biomedical Optics, 2006, 11, 041111.	1.4	70
123	Cell disintegration by laser-induced transient microbubbles and its simultaneous monitoring by interferometry. Journal of Biomedical Optics, 2006, 11, 041112.	1.4	33
124	Interferometric noncontact on-line dosimetry control during selective retina treatment (SRT). , 2005, , .		1
125	Optoacoustic temperature determination at the fundus of the eye during Transpupillary Thermotherapy. , 2005, , .		5
126	Noninvasive Imaging and Monitoring of Retinal Pigment Epithelium Patterns Using Fundus Autofluorescence - Review. Current Medical Imaging, 2005, 1, 89-103.	0.4	15

#	ARTICLE	IF	CITATIONS
127	RPE Damage Thresholds and Mechanisms for Laser Exposure in the Microsecond-to-Millisecond Time Regimen. , 2005, 46, 714.		138
128	Selective targeting of the retinal pigment epithelium using an acousto-optic laser scanner. Journal of Biomedical Optics, 2005, 10, 064014.	1.4	18
129	Optoacoustic real-time dosimetry for selective retina treatment. Journal of Biomedical Optics, 2005, 10, 064022.	1.4	60
130	Boiling nucleation on melanosomes and microbeads transiently heated by nanosecond and microsecond laser pulses. Journal of Biomedical Optics, 2005, 10, 024001.	1.4	105
131	Nucleation and dynamics of bubbles forming around laser heated microabsorbers. , 2005, , .		5
132	Nucleation and Dynamics of Bubbles Forming Around Laser Heated Microabsorbers. , 2005, , .		1
133	Noninvasive optoacoustic temperature determination at the fundus of the eye during laser irradiation. Journal of Biomedical Optics, 2004, 9, 173.	1.4	88
134	Pump-probe detection of laser-induced microbubble formation in retinal pigment epithelium cells. Journal of Biomedical Optics, 2004, 9, 367.	1.4	50
135	Optoacoustic online dosimetry during selective RPE treatment. , 2004, , .		4
136	Online autofluorescence measurements during selective RPE laser treatment. Graefe's Archive for Clinical and Experimental Ophthalmology, 2004, 242, 863-869.	1.0	11
137	Influence of pulse duration and pulse number in selective RPE laser treatment. Lasers in Surgery and Medicine, 2004, 34, 206-215.	1.1	66
138	Green Q-switched microsecond laser pulses by overcoupled intracavity second harmonic generation. Optics Communications, 2004, 231, 319-324.	1.0	31
139	Temperature dependent fluorescence of A2-E, the main fluorescent lipofuscin component in the RPE. Current Eye Research, 2004, 29, 287-291.	0.7	13
140	Mid-infrared laser-induced superheating of water and its quantification by an optical temperature probe. Applied Optics, 2004, 43, 1856.	2.1	3
141	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.	1.1	16
142	Cw high-power IR laser at 2 $\hat{1}$ / ₄ m for minimally invasive surgery. , 2003, , .		39
143	Microbubble dynamics around laser heated microparticles. , 2003, , .		21
144	Autofluorescence imaging after selective RPE laser treatment in macular diseases and clinical outcome: a pilot study. British Journal of Ophthalmology, 2002, 86, 1099-1106.	2.1	77

#	ARTICLE	IF	CITATIONS
145	Effect of Transmyocardial Laser Revascularization on Myocardial Perfusion and Left Ventricular Remodeling after Myocardial Infarction in Rats. <i>Radiology</i> , 2002, 225, 487-493.	3.6	15
146	<title>Noninvasive temperature measurements during laser irradiation of the retina with optoacoustic techniques</title>. , 2002, , .		2
147	<title>In-vivo and in-vitro selective targeting of the retinal pigment epithelium using a laser-scanning device</title>. , 2002, , .		2
148	<title>Microbubble dynamics around melanosomes irradiated with microsecond pulses</title>. , 2002, 4617, 180.		5
149	<title>Selective damage of pigmented cells by means of a rapidly scanned cw laser beam</title>. , 2002, 4617, 134.		2
150	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
151	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
152	Optoacoustic control system for selective treatment of the retinal pigment epithelium. , 2001, , .		7
153	Optoacoustic detection of selective RPE cell damage during $\frac{1}{4}$ s-laser irradiation. , 2001, , .		3
154	Highly resolved tracing of Q-switched mid-IR laser-induced vaporization. , 2001, 4257, 303.		0
155	Interferometric detection of laser-induced microbubbles in the retinal pigment epithelium. , 2001, , .		1
156	Myocardial expression of the vascular endothelial growth factor (VEGF) after endocardial laser revascularization (ELR). , 2001, 4433, 39.		0
157	Optical tracing of Q-switched mid-IR laser-induced bubble formation. , 2001, 4433, 87.		0
158	Optoacoustic measurements during us irradiation of the retinal pigment epithelium. , 2000, , .		11
159	Thermal and Biomechanical Parameters of Porcine Cornea. <i>Cornea</i> , 2000, 19, 355-363.	0.9	189
160	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
161	Subthreshold (retinal pigment epithelium) photocoagulation in macular diseases: a pilot study. <i>British Journal of Ophthalmology</i> , 2000, 84, 40-47.	2.1	133
162	Beam-profile modulation of thulium laser radiation applied with multimode fibers and its effect on the threshold fluence to vaporize water. <i>Applied Optics</i> , 2000, 39, 3361.	2.1	4

#	ARTICLE	IF	CITATIONS
163	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.	0.7	60
164	Corneal Endothelial Cell Damage After Experimental Diode Laser Thermal Keratoplasty. Journal of Refractive Surgery, 2000, 16, 323-329.	1.1	16
165	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
166	Single-pulse 30-J holmium laser for myocardial revascularization-a study on ablation dynamics in comparison to CO/sub 2/ laser-TMR. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 969-980.	1.9	14
167	Continuous-wave diode laserthermokeratoplasty: First clinical experience in blind human eyes. Journal of Cataract and Refractive Surgery, 1999, 25, 32-40.	0.7	28
168	New application system for the holmium laser resection of the prostate. , 1999, 3590, 165.		1
169	<title>Myocardial tissue ablation by single high-energy laser pulses for ELR and TMR</title>. , 1999, , .		3
170	Selective RPE photodestruction: mechanism of cell damage by pulsed-laser irradiance in the ns to 1/4m time regime. , 1999, 3601, 59.		2
171	Diode laser thermokeratoplasty: Application strategy and dosimetry. Journal of Cataract and Refractive Surgery, 1998, 24, 1195-1207.	0.7	25
172	Fundamental Studies of Fiber-Guided Soft Tissue Cutting by Means of Pulsed Midinfrared Lasers and their Application in Ureterotomy. Journal of Biomedical Optics, 1998, 3, 85.	1.4	6
173	<title>Perspectives of holmium laser resection of the prostate: cutting effects with the holmium:YAG laser</title>. , 1998, 3245, 64.		0
174	<title>Analysis of cavitation bubble dynamics by optical online monitoring</title>. , 1998, , .		2
175	<title>Influence of pulse width and speckle formation on the ablation thresholds in water by means of pulsed mid-IR laser radiation</title>. , 1998, , .		1
176	<title>Laser thermokeratoplasty: analysis of in-vitro results and refractive changes achieved in a first clinical study</title>. , 1997, 3192, 180.		7
177	Histologic analysis of thermal effects of laser thermokeratoplasty and corneal ablation using Sirius-red polarization microscopy. Journal of Cataract and Refractive Surgery, 1997, 23, 515-526.	0.7	38
178	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
179	Analysis of cavitation dynamics during pulsed laser tissue ablation by optical on-line monitoring. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 826-835.	1.9	28
180	<title>Comparison of thermal corneal lesions by optical coherence tomography (OCT) and polarization histology</title>. , 1996, , .		1

#	ARTICLE	IF	CITATIONS
181	<title>Laser thermokeratoplasty by means of a continuously emitting laser diode in the mid IR</title>. , 1996, 2930, 66.		3
182	<title>Ablation dynamics in laser sclerotomy ab externo</title>. , 1996, , .		4
183	Corneal collagen denaturation in laser thermokeratoplasty. , 1996, 2681, 56.		17
184	<title>Laser thermokeratoplasty: determination of biomechanical properties of the cornea</title>. , 1996, 2624, 17.		2
185	<title>Biomechanical basis for laser thermokeratoplasty</title>. , 1996, 2930, 25.		6
186	<title>Investigations on laser thermokeratoplasty</title>. , 1994, , .		10
187	<title>Cutting laser systems for ureteral strictures</title>. , 1994, 2086, 112.		0
188	Intracavity frequency doubling of $\hat{1}/4$ s alexandrite laser pulses. , 1994, 2115, 94.		1
189	<title>Laser thermokeratoplasty: a comparative in-vitro study with an Er:glass and a Cr:Tm:Ho:YAG laser</title>. , 1992, 1644, 294.		2
190	<title>Laser sclerostomy ab externo with the Erbium:YAG laser using a new flexible application system</title>. , 1992, , .		0
191	<title>Fiber fragmentation during laser lithotripsy</title>. , 1991, 1421, 146.		5
192	<title>Q-switching and pulse shaping with IR lasers</title>. , 1991, , .		5
193	Interspersion of fragmented fiber's splinters into tissue during pulsed alexandrite laser lithotripsy. Lasers in Surgery and Medicine, 1991, 11, 183-187.	1.1	27
194	Laser-induced shockwave lithotripsy by use of a $1-\hat{1}/4$ s Alexandrite laser. , 1990, 1200, 67.		18