

Ralf Brinkmann

List of Publications by Year in descending order

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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	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
2	Thermal and Biomechanical Parameters of Porcine Cornea. <i>Cornea</i> , 2000, 19, 355-363.	0.9	189
3	RPE Damage Thresholds and Mechanisms for Laser Exposure in the Microsecond-to-Millisecond Time Regimen. , 2005, 46, 714.		138
4	Subthreshold (retinal pigment epithelium) photocoagulation in macular diseases: a pilot study. <i>British Journal of Ophthalmology</i> , 2000, 84, 40-47.	2.1	133
5	Boiling nucleation on melanosomes and microbeads transiently heated by nanosecond and microsecond laser pulses. <i>Journal of Biomedical Optics</i> , 2005, 10, 024001.	1.4	105
6	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
7	Noninvasive optoacoustic temperature determination at the fundus of the eye during laser irradiation. <i>Journal of Biomedical Optics</i> , 2004, 9, 173.	1.4	88
8	Selective retina therapy in patients with central serous chorioretinopathy. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2006, 244, 1638-1645.	1.0	87
9	Autofluorescence imaging after selective RPE laser treatment in macular diseases and clinical outcome: a pilot study. <i>British Journal of Ophthalmology</i> , 2002, 86, 1099-1106.	2.1	77
10	Noninvasive optoacoustic online retinal temperature determination during continuous-wave laser irradiation. <i>Journal of Biomedical Optics</i> , 2006, 11, 041111.	1.4	70
11	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
12	Real-time temperature determination during retinal photocoagulation on patients. <i>Journal of Biomedical Optics</i> , 2012, 17, 061219.	1.4	66
13	Selective retina therapy for acute central serous chorioretinopathy. <i>British Journal of Ophthalmology</i> , 2011, 95, 83-88.	2.1	64
14	Imaging thermal expansion and retinal tissue changes during photocoagulation by high speed OCT. <i>Biomedical Optics Express</i> , 2012, 3, 1025.	1.5	61
15	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
16	Optoacoustic real-time dosimetry for selective retina treatment. <i>Journal of Biomedical Optics</i> , 2005, 10, 064022.	1.4	60
17	Structural Changes of the Retina after Conventional Laser Photocoagulation and Selective Retina Treatment (SRT) in Spectral Domain OCT. <i>Current Eye Research</i> , 2009, 34, 568-579.	0.7	57
18	Pump-probe detection of laser-induced microbubble formation in retinal pigment epithelium cells. <i>Journal of Biomedical Optics</i> , 2004, 9, 367.	1.4	50

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19	Nucleation dynamics around single microabsorbers in water heated by nanosecond laser irradiation. <i>Journal of Applied Physics</i> , 2007, 101, 114701.	1.1	48
20	Automatic temperature controlled retinal photocoagulation. <i>Journal of Biomedical Optics</i> , 2012, 17, 061223.	1.4	44
21	Vectorial release of matrix metalloproteinases (MMPs) from porcine RPE-choroid explants following selective retina therapy (SRT): Towards slowing the macular ageing process. <i>Experimental Eye Research</i> , 2012, 97, 63-72.	1.2	44
22	Self-limited growth of laser-induced vapor bubbles around single microabsorbers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	41
23	Cw high-power IR laser at 2 $\hat{1}$ / ₄ m for minimally invasive surgery. , 2003, , .		39
24	Histologic analysis of thermal effects of laser thermokeratoplasty and corneal ablation using Sirius-red polarization microscopy. <i>Journal of Cataract and Refractive Surgery</i> , 1997, 23, 515-526.	0.7	38
25	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
26	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
27	Potential of a new cw 2 $\hat{1}$ / ₄ m laser scalpel for laparoscopic surgery. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2007, 22, 139-145.	0.4	36
28	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
29	Safety and efficacy of selective retina therapy (SRT) for the treatment of diabetic macular edema in Korean patients. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 1703-1713.	1.0	35
30	Full-field speckle interferometry for non-contact photoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2015, 60, 4045-4058.	1.6	34
31	Cell disintegration by laser-induced transient microbubbles and its simultaneous monitoring by interferometry. <i>Journal of Biomedical Optics</i> , 2006, 11, 041112.	1.4	33
32	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
33	Release of Different Cell Mediators During Retinal Pigment Epithelium Regeneration Following Selective Retina Therapy. , 2018, 59, 1323.		33
34	Selective Retina Therapy in Acute and Chronic-Recurrent Central Serous Chorioretinopathy. <i>Ophthalmologica</i> , 2015, 234, 177-188.	1.0	32
35	Selective Retina Therapy in Patients With Chronic Central Serous Chorioretinopathy. <i>Medicine (United Tj ETQq1 1 0,784314,rgBT /Over</i>	0.4	32
36	Green Q-switched microsecond laser pulses by overcoupled intracavity second harmonic generation. <i>Optics Communications</i> , 2004, 231, 319-324.	1.0	31

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37	Two-Photon Microscopy and Fluorescence Lifetime Imaging of Retinal Pigment Epithelial Cells Under Oxidative Stress. , 2013, 54, 3366.		30
38	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
39	Temperature-Controlled Retinal Photocoagulation – A Step Toward Automated Laser Treatment. , 2012, 53, 3605.		29
40	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
41	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
42	Continuous-wave diode laserthermokeratoplasty: First clinical experience in blind human eyes. Journal of Cataract and Refractive Surgery, 1999, 25, 32-40.	0.7	28
43	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
44	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
45	Selective Targeting of the Retinal Pigment Epithelium in Rabbit Eyes with a Scanning Laser Beam. , 2007, 48, 1782.		27
46	Selective retina therapy: toward an optically controlled automatic dosing. Journal of Biomedical Optics, 2018, 23, 1.	1.4	27
47	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
48	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
49	Diode laser thermokeratoplasty: Application strategy and dosimetry. Journal of Cataract and Refractive Surgery, 1998, 24, 1195-1207.	0.7	25
50	Correlation with OCT and histology of photocoagulation lesions in patients and rabbits. Acta Ophthalmologica, 2013, 91, e603-e611.	0.6	25
51	Functional Evaluation Using Multifocal Electroretinogram After Selective Retina Therapy With a Microsecond-Pulsed Laser. Investigative Ophthalmology and Visual Science, 2015, 56, 122-131.	3.3	24
52	Microbubble dynamics around laser heated microparticles. , 2003, , .		21
53	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
54	Numerical modelling of conductive and convective heat transfers in retinal laser applications. Journal of Biophotonics, 2008, 1, 43-52.	1.1	21

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55	Power-controlled temperature guided retinal laser therapy. Journal of Biomedical Optics, 2017, 22, 1.	1.4	21
56	Expression of heat shock protein 70 and cell death kinetics after different thermal impacts on cultured retinal pigment epithelial cells. Experimental Eye Research, 2018, 170, 117-126.	1.2	19
57	Laser-induced shockwave lithotripsy by use of a 1-1/4s Alexandrite laser. , 1990, 1200, 67.		18
58	Selective targeting of the retinal pigment epithelium using an acousto-optic laser scanner. Journal of Biomedical Optics, 2005, 10, 064014.	1.4	18
59	Corneal collagen denaturation in laser thermokeratoplasty. , 1996, 2681, 56.		17
60	Retinal Pigment Epithelium Responses to Selective Retina Therapy in Mouse Eyes. , 2016, 57, 3486.		17
61	Selective Retina Therapy Reduces Bruch's Membrane Thickness and Retinal Pigment Epithelium Pathology in Age-Related Macular Degeneration Mouse Models. Translational Vision Science and Technology, 2019, 8, 11.	1.1	17
62	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
63	Stone/tissue differentiation for holmium laser lithotripsy using autofluorescence. Lasers in Surgery and Medicine, 2015, 47, 737-744.	1.1	16
64	Time-Resolved Ultra-High Resolution Optical Coherence Tomography for Real-Time Monitoring of Selective Retina Therapy. , 2015, 56, 6654.		16
65	Corneal Endothelial Cell Damage After Experimental Diode Laser Thermal Keratoplasty. Journal of Refractive Surgery, 2000, 16, 323-329.	1.1	16
66	Effect of Transmyocardial Laser Revascularization on Myocardial Perfusion and Left Ventricular Remodeling after Myocardial Infarction in Rats. Radiology, 2002, 225, 487-493.	3.6	15
67	Noninvasive Imaging and Monitoring of Retinal Pigment Epithelium Patterns Using Fundus Autofluorescence - Review. Current Medical Imaging, 2005, 1, 89-103.	0.4	15
68	Correlation of temperature rise and optical coherence tomography characteristics in patient retinal photocoagulation. Journal of Biophotonics, 2012, 5, 889-902.	1.1	15
69	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
70	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
71	OCT-Guided Surgery for Gliomas: Current Concept and Future Perspectives. Diagnostics, 2022, 12, 335.	1.3	14
72	Temperature dependent fluorescence of A2-E, the main fluorescent lipofuscin component in the RPE. Current Eye Research, 2004, 29, 287-291.	0.7	13

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73	Investigations on Retinal Pigment Epithelial Damage at Laser Irradiation in the Lower Microsecond Time Regime. , 2021, 62, 32.		13
74	Threshold determinations for selective retinal pigment epithelium damage with repetitive pulsed microsecond laser systems in rabbits. Ophthalmic Surgery and Lasers, 2002, 33, 400-9.	0.2	13
75	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
76	Factors affecting resolution of subretinal fluid after selective retina therapy for central serous chorioretinopathy. Scientific Reports, 2021, 11, 8973.	1.6	12
77	Optoacoustic measurements during us irradiation of the retinal pigment epithelium. , 2000, , .		11
78	Online autofluorescence measurements during selective RPE laser treatment. Graefe's Archive for Clinical and Experimental Ophthalmology, 2004, 242, 863-869.	1.0	11
79	Temperature-controlled laser therapy of the retina via robust adaptive H_{∞} -control. Automatisierungstechnik, 2018, 66, 1051-1063.	0.4	11
80	<title>Investigations on laser thermokeratoplasty</title>. , 1994, , .		10
81	A CASE OF RETINAL INJURY BY A VIOLET LIGHT-EMITTING DIODE. Retinal Cases and Brief Reports, 2011, 5, 223-226.	0.3	10
82	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
83	Resection of Calcified Aortic Heart Leaflets In Vitro by Q-Switched $2\mu\text{m}$ Microsecond Laser Radiation. Journal of Cardiac Surgery, 2015, 30, 157-162.	0.3	10
84	Biomedical optics centers: forty years of multidisciplinary clinical translation for improving human health. Journal of Biomedical Optics, 2016, 21, 124001.	1.4	10
85	Temperature dependence of water absorption for wavelengths at 1920 nm and 1940 nm. IFMBE Proceedings, 2009, , 2228-2229.	0.2	9
86	Automatic irradiation control by an optical feedback technique for selective retina treatment (SRT) in a rabbit model. Proceedings of SPIE, 2013, , .	0.8	9
87	Comprehensive Detection, Grading, and Growth Behavior Evaluation of Subthreshold and Low Intensity Photocoagulation Lesions by Optical Coherence Tomographic and Infrared Image Analysis. BioMed Research International, 2014, 2014, 1-10.	0.9	9
88	Temperature-Controlled Retinal Photocoagulation Reliably Generates Uniform Subvisible, Mild, or Moderate Lesions. Translational Vision Science and Technology, 2015, 4, 9.	1.1	9
89	Predictive factors of outcome of selective retina therapy for diabetic macular edema. International Ophthalmology, 2020, 40, 1221-1232.	0.6	9
90	Noncontact holographic detection for photoacoustic tomography. Journal of Biomedical Optics, 2017, 22, 1.	1.4	9

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91	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.	0.4	8
92	<title>Laser thermokeratoplasty: analysis of in-vitro results and refractive changes achieved in a first clinical study</title>. , 1997, 3192, 180.		7
93	Optoacoustic control system for selective treatment of the retinal pigment epithelium. , 2001, , .		7
94	Modeling and parameter identification for real-time temperature controlled retinal laser therapies. <i>Automatisierungstechnik</i> , 2020, 68, 953-966.	0.4	7
95	<title>Biomechanical basis for laser thermokeratoplasty</title>. , 1996, 2930, 25.		6
96	Fundamental Studies of Fiber-Guided Soft Tissue Cutting by Means of Pulsed Midinfrared Lasers and their Application in Ureterotomy. <i>Journal of Biomedical Optics</i> , 1998, 3, 85.	1.4	6
97	Laser-induced lithotripsy: a review, insight into laboratory work, and lessons learned. <i>Translational Biophotonics</i> , 2020, 2, e201900029.	1.4	6
98	<title>Fiber fragmentation during laser lithotripsy</title>. , 1991, 1421, 146.		5
99	<title>Q-switching and pulse shaping with IR lasers</title>. , 1991, , .		5
100	<title>Microbubble dynamics around melanosomes irradiated with microsecond pulses</title>. , 2002, 4617, 180.		5
101	Optoacoustic temperature determination at the fundus of the eye during Transpupillary Thermotherapy. , 2005, , .		5
102	Nucleation and dynamics of bubbles forming around laser heated microabsorbers. , 2005, , .		5
103	Time resolved detection of tissue denaturation during retinal photocoagulation. <i>Proceedings of SPIE</i> , 2009, , .	0.8	5
104	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
105	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
106	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
107	Towards Automatically Controlled Dosing for Selective Laser Trabeculoplasty. <i>Translational Vision Science and Technology</i> , 2019, 8, 24.	1.1	5
108	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

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109	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
110	State and parameter estimation for model-based retinal laser treatment. <i>IFAC-PapersOnLine</i> , 2021, 54, 244-250.	0.5	5
111	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
112	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
113	<title>Ablation dynamics in laser sclerotomy ab externo</title>. , 1996, , .		4
114	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
115	Optoacoustic online dosimetry during selective RPE treatment. , 2004, , .		4
116	Realtime temperature determination during retinal photocoagulation on patients. <i>Proceedings of SPIE</i> , 2011, , .	0.8	4
117	Optoacoustic temperature determination and automatic coagulation control in rabbits. <i>Proceedings of SPIE</i> , 2011, , .	0.8	4
118	Temporally stretched Q-switched pulses in the 2 1/4m spectral range. <i>Laser Physics Letters</i> , 2012, 9, 808-813.	0.6	4
119	Calibration of histological retina specimens after fixation in Margoâ€™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
120	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
121	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
122	Selective retina therapy for subretinal fluid associated with choroidal nevus. <i>American Journal of Ophthalmology Case Reports</i> , 2020, 19, 100794.	0.4	4
123	Optical coherence tomography controlled selective retina therapy with a novel microsecond laser. , 2019, , .		4
124	Modeling and Temperature Control of Retinal Laser Therapy. <i>IFAC-PapersOnLine</i> , 2020, 53, 16451-16456.	0.5	4
125	Algorithms for optoacoustically controlled selective retina therapy (SRT). <i>Photoacoustics</i> , 2022, 25, 100316.	4.4	4
126	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

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127	<title>Laser thermokeratoplasty by means of a continuously emitting laser diode in the mid IR</title>. , 1996, 2930, 66.		3
128	<title>Myocardial tissue ablation by single high-energy laser pulses for ELR and TMR</title>. , 1999, , .		3
129	Optoacoustic detection of selective RPE cell damage during $\frac{1}{4}$ s-laser irradiation. , 2001, , .		3
130	Mid-infrared laser-induced superheating of water and its quantification by an optical temperature probe. Applied Optics, 2004, 43, 1856.	2.1	3
131	Influence of choroidal perfusion on retinal temperature increase during retinal laser treatments. , 2007, 6632, 247.		3
132	Optoacoustic online temperature determination during retinal laser photocoagulation. , 2007, , .		3
133	Percutaneous Aortic Valve Replacement. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2010, 5, 55-59.	0.4	3
134	Imaging of temperature distribution and retinal tissue changes during photocoagulation by high speed OCT. , 2011, , .		3
135	Lesion strength control by automatic temperature guided retinal photocoagulation. Journal of Biomedical Optics, 2016, 21, 098001.	1.4	3
136	Continuous-wave Thulium Laser for Heating Cultured Cells to Investigate Cellular Thermal Effects. Journal of Visualized Experiments, 2017, , .	0.2	3
137	Response of Retinal Pigment Epithelium (RPE)â€Choroid Explants to Thermal Stimulation Therapy of the RPE (TSR). Lasers in Surgery and Medicine, 2021, 53, 359-369.	1.1	3
138	Selective retina therapy (SRT) for macular serous retinal detachment associated with tilted disc syndrome. Graefe's Archive for Clinical and Experimental Ophthalmology, 2021, 259, 387-393.	1.0	3
139	Selective Retina Therapy. , 2019, , 237-259.		3
140	Ex vivo investigation of different $\frac{1}{4}$ s laser pulse durations for selective retina therapy. , 2019, , .		3
141	<title>Laser thermokeratoplasty: a comparative in-vitro study with an Er:glass and a Cr:Tm:Ho:YAG laser</title>. , 1992, 1644, 294.		2
142	<title>Laser thermokeratoplasty: determination of biomechanical properties of the cornea</title>. , 1996, 2624, 17.		2
143	<title>Analysis of cavitation bubble dynamics by optical online monitoring</title>. , 1998, , .		2
144	Selective RPE photodestruction: mechanism of cell damage by pulsed-laser irradiance in the ns to $\frac{1}{4}$ m time regime. , 1999, 3601, 59.		2

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145	<title>Noninvasive temperature measurements during laser irradiation of the retina with optoacoustic techniques</title>. , 2002, , .		2
146	<title>In-vivo and in-vitro selective targeting of the retinal pigment epithelium using a laser-scanning device</title>. , 2002, , .		2
147	<title>Selective damage of pigmented cells by means of a rapidly scanned cw laser beam</title>. , 2002, 4617, 134.		2
148	A numerical model for heat and pressure propagation for temperature controlled retinal photocoagulation. , 2013, , .		2
149	Optical full-field holographic detection system for non-contact photoacoustic tomography. , 2014, , .		2
150	Modulation of inflammatory processes by thermal stimulating and RPE regenerative laser therapies in age related macular degeneration mouse models. Cytokine: X, 2020, 2, 100031.	0.5	2
151	Fluorescence Lifetime Changes Induced by Laser Irradiation: A Preclinical Study towards the Evaluation of Retinal Metabolic States. Life, 2021, 11, 555.	1.1	2
152	Segmented OCT data set for depth resolved brain tumor detection validated by histological analysis. , 2020, , .		2
153	Selective retina therapy and thermal stimulation of the retina: different regenerative properties - implications for AMD therapy. BMC Ophthalmology, 2021, 21, 412.	0.6	2
154	Intracavity frequency doubling of 1/4s alexandrite laser pulses. , 1994, 2115, 94.		1
155	<title>Comparison of thermal corneal lesions by optical coherence tomography (OCT) and polarization histology</title>. , 1996, , .		1
156	<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
157	New application system for the holmium laser resection of the prostate. , 1999, 3590, 165.		1
158	Interferometric detection of laser-induced microbubbles in the retinal pigment epithelium. , 2001, , .		1
159	Interferometric noncontact on-line dosimetry control during selective retina treatment (SRT). , 2005, , .		1
160	Interferometric optical online dosimetry for selective retina treatment (SRT). , 2007, 6632, 220.		1
161	Interferometric optical online dosimetry for selective retina treatment (SRT). , 2007, 6426, 245.		1
162	Photoacoustic blood vessel detection during surgical laser interventions. Proceedings of SPIE, 2011, , .	0.8	1

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163	Temperature controlled retinal photocoagulation. , 2013, , .		1
164	Non-contact photoacoustic tomography using holographic full field detection. , 2013, , .		1
165	Laser speckle tracking for monitoring and analysis of retinal photocoagulation. Proceedings of SPIE, 2014, , .	0.8	1
166	Consolidated numerical temperature/pressure modelling to assess the accuracy of optoacoustic temperature determination during retinal photocoagulation. , 2014, , .		1
167	Power-controlled temperature guided retinal photocoagulation. Proceedings of SPIE, 2015, , .	0.8	1
168	Differentiation of tissue and kidney stones for laser lithotripsy using different spectroscopic approaches. , 2015, , .		1
169	Real time speckle monitoring to control retinal photocoagulation. Proceedings of SPIE, 2017, , .	0.8	1
170	Nucleation and Dynamics of Bubbles Forming Around Laser Heated Microabsorbers. , 2005, , .		1
171	Percutaneous Aortic Valve Replacement. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2010, 5, 55-59.	0.4	1
172	Toward automated selective retina treatment (SRT): an optical microbubble detection technique. , 2018, , .		1
173	Virtual HE histology by fiber-based picosecond two-photon microscopy. , 2019, , .		1
174	Ex vivo and in vivo imaging of human brain tissue with different OCT systems. , 2019, , .		1
175	<title>Laser sclerostomy ab externo with the Erbium:YAG laser using a new flexible application system</title>. , 1992, , .		0
176	<title>Cutting laser systems for ureteral strictures</title>. , 1994, 2086, 112.		0
177	<title>Perspectives of holmium laser resection of the prostate: cutting effects with the holmium:YAG laser</title>. , 1998, 3245, 64.		0
178	Highly resolved tracing of Q-switched mid-IR laser-induced vaporization. , 2001, 4257, 303.		0
179	Myocardial expression of the vascular endothelial growth factor (VEGF) after endocardial laser revascularization (ELR). , 2001, 4433, 39.		0
180	Optical tracing of Q-switched mid-IR laser-induced bubble formation. , 2001, 4433, 87.		0

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181	Non-invasive optoacoustic temperature determination during retinal cw-laser treatments. , 2006, , .		0
182	Dynamics and detection of laser induced microbubbles in the retinal pigment epithelium (RPE). , 2007, , .		0
183	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
184	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
185	Dynamics of laser induced micro bubble clusters on tissue phantoms. , 2011, , .		0
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