

Benjamin A Rockwell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

1,097
citations

16
h-index

32
g-index

55
ext. papers

1,277
ext. citations

3.5
avg, IF

3.56
L-index

#	Paper	IF	Citations
52	Computational modeling and damage threshold prediction of continuous-wave and multiple-pulse porcine skin laser exposures at 1070 nm. <i>Journal of Laser Applications</i> , 2021 , 33, 022023	2.1	
51	Evaluation of the potential eye hazard at visible wavelengths of the supercontinuum generated by an ultrafast NIR laser in water. <i>Biomedical Optics Express</i> , 2021 , 12, 1167-1180	3.5	
50	Effect of ambient temperature and intracellular pigmentation on photothermal damage rate kinetics. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-15	3.5	2
49	Nonlinear optical properties of water from 1150 nm to 1400 nm 2019 ,		1
48	Non-linear optical hazards from near-infrared ultrafast laser pulses in ocular tissue 2019 ,		1
47	Z-scan measurements of water from 1150 to 1400 nm. <i>Optics Letters</i> , 2018 , 43, 4196-4199	3	11
46	Enabling time resolved microscopy with random Raman lasing. <i>Scientific Reports</i> , 2017 , 7, 44572	4.9	8
45	Temperature dependence of nanosecond laser pulse thresholds of melanosome and microsphere microcavitation. <i>Journal of Biomedical Optics</i> , 2016 , 21, 15013	3.5	3
44	A narrow-band speckle-free light source via random Raman lasing. <i>Journal of Modern Optics</i> , 2016 , 63, 46-49	1.1	19
43	Evidence of Anderson localization effects in random Raman lasing 2016 ,		4
42	Measuring the absorption coefficient of biological materials using integrating cavity ring-down spectroscopy. <i>Optica</i> , 2015 , 2, 162	8.6	21
41	Temperature dependence of melanosome microcavitation thresholds produced by single nanosecond laser pulses 2015 ,		1
40	No effect of femtosecond laser pulses on M13, E. coli, DNA, or protein. <i>Journal of Biomedical Optics</i> , 2014 , 19, 15008	3.5	7
39	Bright emission from a random Raman laser. <i>Nature Communications</i> , 2014 , 5, 4356	17.4	73
38	Single-shot stand-off chemical identification of powders using random Raman lasing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12320-4	11.5	51
37	High-resolution in vivo imaging of regimes of laser damage to the primate retina. <i>Journal of Ophthalmology</i> , 2014 , 2014, 516854	2	6
36	Trends in melanosome microcavitation thresholds for nanosecond pulse exposures in the near infrared. <i>Journal of Biomedical Optics</i> , 2014 , 19, 35003	3.5	10

35	Thermal evaluation of laser exposures in an in vitro retinal model by microthermal sensing. <i>Journal of Biomedical Optics</i> , 2014 , 19, 97003	3.5	2
34	Hyperthermia sensitizes pigmented cells to laser damage without changing threshold damage temperature. <i>Journal of Biomedical Optics</i> , 2013 , 18, 110501	3.5	4
33	Chemically Specific Imaging Through Stimulated Raman Photoexcitation and Ultrasound Detection: Minireview. <i>Australian Journal of Chemistry</i> , 2012 , 65, 260-265	1.2	4
32	Stimulated Raman scattering using a single femtosecond oscillator with flexibility for imaging and spectral applications. <i>Optics Express</i> , 2011 , 19, 18885-92	3.3	52
31	Monitoring stimulated Raman scattering with photoacoustic detection. <i>Optics Letters</i> , 2011 , 36, 1233-5	3	15
30	Detecting mineral content in turbid medium using nonlinear Raman imaging: feasibility study. <i>Journal of Modern Optics</i> , 2011 , 58, 1914-1921	1.1	4
29	Ultrashort laser pulse retinal damage mechanisms and their impact on thresholds. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2010 , 25, 84-92		25
28	Laser bioeffects associated with ultrafast lasers: Role of multiphoton absorption. <i>Journal of Laser Applications</i> , 2008 , 20, 89-97	2.1	3
27	Procedure for the computation of hazards from diffusely scattering surfaces under the Z136.1-2000 American National Standard for Safe Use of Lasers. <i>Journal of Laser Applications</i> , 2007 , 19, 46-54	2.1	4
26	Damage Thresholds for Exposure to NIR and Blue Lasers in an In Vitro RPE Cell System. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 3065-73		29
25	ED50 study of femtosecond terawatt laser pulses on porcine skin. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 59-63	3.6	10
24	Sub-50-fs laser retinal damage thresholds in primate eyes with group velocity dispersion, self-focusing and low-density plasmas. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2005 , 243, 101-12	3.8	13
23	A comparative study of retinal effects from continuous wave and femtosecond mode-locked lasers. <i>Lasers in Surgery and Medicine</i> , 2002 , 31, 9-17	3.6	14
22	Thresholds for retinal injury from multiple near-infrared ultrashort laser pulses. <i>Health Physics</i> , 2002 , 82, 855-62	2.3	15
21	Visible lesion threshold dependence on retinal spot size for femtosecond laser pulses. <i>Journal of Laser Applications</i> , 2001 , 13, 125-131	2.1	11
20	A procedure for multiple-pulse maximum permissible exposure determination under the Z136.1-2000 American National Standard for Safe Use of Lasers. <i>Journal of Laser Applications</i> , 2001 , 13, 134-140	2.1	20
19	Comparison of macular versus paramacular retinal sensitivity to femtosecond laser pulses. <i>Journal of Biomedical Optics</i> , 2000 , 5, 315-20	3.5	9
18	Comparative study of laser damage threshold energies in the artificial retina. <i>Journal of Biomedical Optics</i> , 1999 , 4, 337-44	3.5	8

17	Update on ANSI Z136.1. <i>Journal of Laser Applications</i> , 1999 , 11, 243-247	2.1	11
16	Ultrashort laser pulse bioeffects and safety. <i>Journal of Laser Applications</i> , 1999 , 11, 42-4	2.1	16
15	Spectrally resolved white-light interferometry for measurement of ocular dispersion. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999 , 16, 2092-102	1.8	17
14	Influence of optical aberrations on laser-induced plasma formation in water and their consequences for intraocular photodisruption. <i>Applied Optics</i> , 1999 , 38, 3636-43	1.7	35
13	Comparison of retinal damage thresholds of laser pulses in the macula/paramacula regions of the live eye 1999 , 3601, 39		2
12	Histopathology of ultrashort pulsed laser retinal damage: changing retinal pathology with variation in spot size for near-infrared laser lesions 1999 , 3601, 32		2
11	Cavitation thresholds in the rabbit retinal pigmented epithelium 1999 , 3601, 27		3
10	Influence of pulse duration on mechanical effects after laser-induced breakdown in water. <i>Journal of Applied Physics</i> , 1998 , 83, 7488-7495	2.5	150
9	Femtosecond laser pulses in the near-infrared produce visible lesions in the primate eye 1998 , 3195, 121		1
8	Retinal spot size with wavelength 1997 , 2975, 148		7
7	Intraocular laser surgical probe for membrane disruption by laser-induced breakdown. <i>Applied Optics</i> , 1997 , 36, 1684-93	1.7	20
6	Shielding properties of laser-induced breakdown in water for pulse durations from 5 ns to 125 fs. <i>Applied Optics</i> , 1997 , 36, 5630-40	1.7	71
5	Laser-induced breakdown in aqueous media. <i>Progress in Quantum Electronics</i> , 1997 , 21, 155-248	9.1	235
4	Shock wave and cavitation bubble measurements of ultrashort-pulse laser-induced breakdown in water 1996 ,		4
3	Effects of laser-induced breakdown, self-focusing, and plasma shielding on ultrashort-pulse propagation in the eye 1996 ,		2
2	Retinal damage and laser-induced breakdown produced by ultrashort-pulse lasers. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 1996 , 234 Suppl 1, S28-37	3.8	33
1	Nonlinear refraction in vitreous humor. <i>Optics Letters</i> , 1993 , 18, 1792-4	3	27