

# Benjamin A Rockwell

## List of Publications by Citations

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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	Laser-induced breakdown in aqueous media. <i>Progress in Quantum Electronics</i> , <b>1997</b> , 21, 155-248	9.1	235
51	Influence of pulse duration on mechanical effects after laser-induced breakdown in water. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 7488-7495	2.5	150
50	Bright emission from a random Raman laser. <i>Nature Communications</i> , <b>2014</b> , 5, 4356	17.4	73
49	Shielding properties of laser-induced breakdown in water for pulse durations from 5 ns to 125 fs. <i>Applied Optics</i> , <b>1997</b> , 36, 5630-40	1.7	71
48	Stimulated Raman scattering using a single femtosecond oscillator with flexibility for imaging and spectral applications. <i>Optics Express</i> , <b>2011</b> , 19, 18885-92	3.3	52
47	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> , <b>2014</b> , 111, 12320-4	11.5	51
46	Influence of optical aberrations on laser-induced plasma formation in water and their consequences for intraocular photodisruption. <i>Applied Optics</i> , <b>1999</b> , 38, 3636-43	1.7	35
45	Retinal damage and laser-induced breakdown produced by ultrashort-pulse lasers. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , <b>1996</b> , 234 Suppl 1, S28-37	3.8	33
44	Damage Thresholds for Exposure to NIR and Blue Lasers in an In Vitro RPE Cell System. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 3065-73		29
43	Nonlinear refraction in vitreous humor. <i>Optics Letters</i> , <b>1993</b> , 18, 1792-4	3	27
42	Ultrashort laser pulse retinal damage mechanisms and their impact on thresholds. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , <b>2010</b> , 25, 84-92		25
41	Measuring the absorption coefficient of biological materials using integrating cavity ring-down spectroscopy. <i>Optica</i> , <b>2015</b> , 2, 162	8.6	21
40	Intraocular laser surgical probe for membrane disruption by laser-induced breakdown. <i>Applied Optics</i> , <b>1997</b> , 36, 1684-93	1.7	20
39	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> , <b>2001</b> , 13, 134-140	2.1	20
38	A narrow-band speckle-free light source via random Raman lasing. <i>Journal of Modern Optics</i> , <b>2016</b> , 63, 46-49	1.1	19
37	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> , <b>1999</b> , 16, 2092-102	1.8	17
36	Ultrashort laser pulse bioeffects and safety. <i>Journal of Laser Applications</i> , <b>1999</b> , 11, 42-4	2.1	16

35	Monitoring stimulated Raman scattering with photoacoustic detection. <i>Optics Letters</i> , <b>2011</b> , 36, 1233-5	3	15
34	Thresholds for retinal injury from multiple near-infrared ultrashort laser pulses. <i>Health Physics</i> , <b>2002</b> , 82, 855-62	2.3	15
33	A comparative study of retinal effects from continuous wave and femtosecond mode-locked lasers. <i>Lasers in Surgery and Medicine</i> , <b>2002</b> , 31, 9-17	3.6	14
32	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> , <b>2005</b> , 243, 101-12	3.8	13
31	Z-scan measurements of water from 1150 to 1400 nm. <i>Optics Letters</i> , <b>2018</b> , 43, 4196-4199	3	11
30	Visible lesion threshold dependence on retinal spot size for femtosecond laser pulses. <i>Journal of Laser Applications</i> , <b>2001</b> , 13, 125-131	2.1	11
29	Update on ANSI Z136.1. <i>Journal of Laser Applications</i> , <b>1999</b> , 11, 243-247	2.1	11
28	Trends in melanosome microcavitation thresholds for nanosecond pulse exposures in the near infrared. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 35003	3.5	10
27	ED50 study of femtosecond terawatt laser pulses on porcine skin. <i>Lasers in Surgery and Medicine</i> , <b>2005</b> , 37, 59-63	3.6	10
26	Comparison of macular versus paramacular retinal sensitivity to femtosecond laser pulses. <i>Journal of Biomedical Optics</i> , <b>2000</b> , 5, 315-20	3.5	9
25	Enabling time resolved microscopy with random Raman lasing. <i>Scientific Reports</i> , <b>2017</b> , 7, 44572	4.9	8
24	Comparative study of laser damage threshold energies in the artificial retina. <i>Journal of Biomedical Optics</i> , <b>1999</b> , 4, 337-44	3.5	8
23	No effect of femtosecond laser pulses on M13, E. coli, DNA, or protein. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 15008	3.5	7
22	Retinal spot size with wavelength <b>1997</b> , 2975, 148		7
21	High-resolution in vivo imaging of regimes of laser damage to the primate retina. <i>Journal of Ophthalmology</i> , <b>2014</b> , 2014, 516854	2	6
20	Evidence of Anderson localization effects in random Raman lasing <b>2016</b> ,		4
19	Hyperthermia sensitizes pigmented cells to laser damage without changing threshold damage temperature. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 110501	3.5	4
18	Detecting mineral content in turbid medium using nonlinear Raman imaging: feasibility study. <i>Journal of Modern Optics</i> , <b>2011</b> , 58, 1914-1921	1.1	4

17	Chemically Specific Imaging Through Stimulated Raman Photoexcitation and Ultrasound Detection: Minireview. <i>Australian Journal of Chemistry</i> , <b>2012</b> , 65, 260-265	1.2	4
16	Shock wave and cavitation bubble measurements of ultrashort-pulse laser-induced breakdown in water <b>1996</b> ,		4
15	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> , <b>2007</b> , 19, 46-54	2.1	4
14	Temperature dependence of nanosecond laser pulse thresholds of melanosome and microsphere microcavitation. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 15013	3.5	3
13	Laser bioeffects associated with ultrafast lasers: Role of multiphoton absorption. <i>Journal of Laser Applications</i> , <b>2008</b> , 20, 89-97	2.1	3
12	Cavitation thresholds in the rabbit retinal pigmented epithelium <b>1999</b> , 3601, 27		3
11	Thermal evaluation of laser exposures in an in vitro retinal model by microthermal sensing. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 97003	3.5	2
10	Comparison of retinal damage thresholds of laser pulses in the macula/paramacula regions of the live eye <b>1999</b> , 3601, 39		2
9	Histopathology of ultrashort pulsed laser retinal damage: changing retinal pathology with variation in spot size for near-infrared laser lesions <b>1999</b> , 3601, 32		2
8	Effects of laser-induced breakdown, self-focusing, and plasma shielding on ultrashort-pulse propagation in the eye <b>1996</b> ,		2
7	Effect of ambient temperature and intracellular pigmentation on photothermal damage rate kinetics. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-15	3.5	2
6	Temperature dependence of melanosome microcavitation thresholds produced by single nanosecond laser pulses <b>2015</b> ,		1
5	Femtosecond laser pulses in the near-infrared produce visible lesions in the primate eye <b>1998</b> , 3195, 121		1
4	Nonlinear optical properties of water from 1150 nm to 1400 nm <b>2019</b> ,		1
3	Non-linear optical hazards from near-infrared ultrafast laser pulses in ocular tissue <b>2019</b> ,		1
2	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> , <b>2021</b> , 33, 022023	2.1	
1	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> , <b>2021</b> , 12, 1167-1180	3.5	