Benjamin A Rockwell

List of Publications by Year
in descending order

55 papers	1,403 citations	430442 18 h-index	344852 36 g-index
55 all docs	55 docs citations	55 times ranked	1295 citing authors

#	Article	IF	Citations
1	Laser-induced breakdown in aqueous media. Progress in Quantum Electronics, 1997, 21, 155-248.	3.5	288
2	Influence of pulse duration on mechanical effects after laser-induced breakdown in water. Journal of Applied Physics, 1998, 83, 7488-7495.	1.1	186
3	Bright emission from a random Raman laser. Nature Communications, 2014, 5, 4356.	5.8	88
4	Shielding properties of laser-induced breakdown in water for pulse durations from 5 ns to 125 fs. Applied Optics, 1997, 36, 5630.	2.1	84
5	Single-shot stand-off chemical identification of powders using random Raman lasing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12320-12324.	3.3	63
6	Stimulated Raman scattering using a single femtosecond oscillator with flexibility for imaging and spectral applications. Optics Express, 2011, 19, 18885.	1.7	62
7	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
8	Retinal damage and laser-induced breakdown produced by ultrashort-pulse lasers. Graefe's Archive for Clinical and Experimental Ophthalmology, 1996, 234, S28-S37.	1.0	46
9	Damage Thresholds for Exposure to NIR and Blue Lasers in an In Vitro RPE Cell System. , 2006, 47, 3065.		39
10	Nonlinear refraction in vitreous humor. Optics Letters, 1993, 18, 1792.	1.7	34
11	A procedure for multiple-pulse maximum permissible exposure determination under the Z136.1-2000 American National Standard for Safe Use of Lasers. Journal of Laser Applications, 2001, 13, 134-140.	0.8	32
12	Ultrashort laser pulse retinal damage mechanisms and their impact on thresholds. Medical Laser Application: International Journal for Laser Treatment and Research, 2010, 25, 84-92.	0.4	31
13	Measuring the absorption coefficient of biological materials using integrating cavity ring-down spectroscopy. Optica, 2015, 2, 162.	4.8	31
14	Intraocular laser surgical probe for membrane disruption by laser-induced breakdown. Applied Optics, 1997, 36, 1684.	2.1	29
15	Spectrally resolved white-light interferometry for measurement of ocular dispersion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2092.	0.8	29
16	Ultrashort laser pulse bioeffects and safety. Journal of Laser Applications, 1999, 11, 42-44.	0.8	22
17	A narrow-band speckle-free light source via random Raman lasing. Journal of Modern Optics, 2016, 63, 46-49.	0.6	22
18	Sub-50-fs laser retinal damage thresholds in primate eyes with group velocity dispersion, self-focusing and low-density plasmas. Graefe's Archive for Clinical and Experimental Ophthalmology, 2005, 243, 101-112.	1.0	20

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19	THRESHOLDS FOR RETINAL INJURY FROM MULTIPLE NEAR-INFRARED ULTRASHORT LASER PULSES. Health Physics, 2002, 82, 855-862.	0.3	18
20	Monitoring stimulated Raman scattering with photoacoustic detection. Optics Letters, 2011, 36, 1233.	1.7	17
21	Visible lesion threshold dependence on retinal spot size for femtosecond laser pulses. Journal of Laser Applications, 2001, 13, 125-131.	0.8	16
22	A Comparative study of retinal effects from continuous wave and femtosecond mode-locked lasers. Lasers in Surgery and Medicine, 2002, 31, 9-17.	1.1	16
23	Z-scan measurements of water from 1150 to 1400â€‰â€‰nm. Optics Letters, 2018, 43, 4196.	1.7	16
24	Comparison of macular versus paramacular retinal sensitivity to femtosecond laser pulses. Journal of Biomedical Optics, 2000, 5, 315.	1.4	13
25	ED50 study of femtosecond terawatt laser pulses on porcine skin. Lasers in Surgery and Medicine, 2005, 37, 59-63.	1.1	13
26	Update on ANSI Z136.1. Journal of Laser Applications, 1999, 11, 243-247.	0.8	12
27	Trends in melanosome microcavitation thresholds for nanosecond pulse exposures in the near infrared. Journal of Biomedical Optics, 2014, 19, 035003.	1.4	12
28	Comparative Study of Laser Damage Threshold Energies in the Artificial Retina. Journal of Biomedical Optics, 1999, 4, 337.	1.4	11
29	Enabling time resolved microscopy with random Raman lasing. Scientific Reports, 2017, 7, 44572.	1.6	10
30	Effect of ambient temperature and intracellular pigmentation on photothermal damage rate kinetics. Journal of Biomedical Optics, 2019, 24, 1.	1.4	10
31	High-ResolutionIn VivoImaging of Regimes of Laser Damage to the Primate Retina. Journal of Ophthalmology, 2014, 2014, 1-14.	0.6	9
32	No effect of femtosecond laser pulses on M13,E. coli, DNA, or protein. Journal of Biomedical Optics, 2014, 19, 015008.	1.4	9
33	<title>Retinal spot size with wavelength</title>. , 1997, 2975, 148.		8
34	Chemically Specific Imaging Through Stimulated Raman Photoexcitation and Ultrasound Detection: Minireview. Australian Journal of Chemistry, 2012, 65, 260.	0.5	6
35	Hyperthermia sensitizes pigmented cells to laser damage without changing threshold damage temperature. Journal of Biomedical Optics, 2013, 18, 110501.	1.4	6
36	Cavitation thresholds in the rabbit retinal pigmented epithelium. , 1999, 3601, 27.		5

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37	Procedure for the computation of hazards from diffusely scattering surfaces under the Z136.1-2000 American National Standard for Safe Use of Lasers. Journal of Laser Applications, 2007, 19, 46-54.	0.8	5
38	Shock wave and cavitation bubble measurements of ultrashort-pulse laser-induced breakdown in water. , 1996, , .		4
39	Detecting mineral content in turbid medium using nonlinear Raman imaging: feasibility study. Journal of Modern Optics, 2011, 58, 1914-1921.	0.6	4
40	Temperature dependence of nanosecond laser pulse thresholds of melanosome and microsphere microcavitation. Journal of Biomedical Optics, 2016, 21, 015013.	1.4	4
41	Evidence of Anderson localization effects in random Raman lasing. , 2016, , .		4
42	Comparison of retinal damage thresholds of laser pulses in the macula/paramacula regions of the live eye. , 1999, 3601, 39.		3
43	Laser bioeffects associated with ultrafast lasers: Role of multiphoton absorption. Journal of Laser Applications, 2008, 20, 89-97.	0.8	3
44	Effects of laser-induced breakdown, self-focusing, and plasma shielding on ultrashort-pulse propagation in the eye. , 1996, , .		2
45	Histopathology of ultrashort pulsed laser retinal damage: changing retinal pathology with variation in spot size for near-infrared laser lesions. , 1999, 3601, 32.		2
46	Thermal evaluation of laser exposures in anin vitroretinal model by microthermal sensing. Journal of Biomedical Optics, 2014, 19, 097003.	1.4	2
47	Computational modeling and damage threshold prediction of continuous-wave and multiple-pulse porcine skin laser exposures at 1070â€‰nm. Journal of Laser Applications, 2021, 33, .	0.8	2
48	Nonlinear optical properties of water from 1150 nm to 1400 nm. , 2019, , .		2
49	<title>Femtosecond laser pulses in the near-infrared produce visible lesions in the primate eye</title>. , 1998, 3195, 121.		1
50	Temperature dependence of melanosome microcavitation thresholds produced by single nanosecond laser pulses. , 2015, , .		1
51	Non-linear optical hazards from near-infrared ultrafast laser pulses in ocular tissue. , 2019, , .		1
52	<title>White-light interferometric measurements of aqueous media dispersive properties</title>. , 1997, , .		1
53	Lighting up microscopy with random Raman lasing. , 2016, , .		0
54	Evaluation of the potential eye hazard at visible wavelengths of the supercontinuum generated by an ultrafast NIR laser in water. Biomedical Optics Express, 2021, 12, 1167.	1.5	0

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55	Infrared laser damage thresholds in corneal tissue phantoms using femtosecond laser pulses. , 2018, , .		0