

Michael L Denton

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,693
citations

516710

16
h-index

289244

40
g-index

82
all docs

82
docs citations

82
times ranked

1728
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinguishing photothermal from photochemical damage processes at 447 nm. , 2022, , .		0
2	Damage integral and other predictive formulas for nonisothermal heating during laser exposure. Journal of Biomedical Optics, 2022, 27, .	2.6	2
3	Near infrared laser exposure enhancement of cytochrome c oxidase enzyme activity does not exhibit irradiance reciprocity. , 2022, , .		0
4	Continuous assessment of metabolic activity of mitochondria using resonance Raman microspectroscopy. Journal of Biophotonics, 2021, 14, e202000384.	2.3	6
5	Transient absorption spectroscopy to explore cellular pathways to photobiomodulation. Journal of Photochemistry and Photobiology B: Biology, 2021, 222, 112271.	3.8	5
6	Mammalian complex III heme dynamics studied with pump-probe spectroscopy and red light illuminations. Biomedical Optics Express, 2021, 12, 7082.	2.9	3
7	Wavelength- and irradiance-dependent changes in intracellular nitric oxide level. Journal of Biomedical Optics, 2020, 25, 1.	2.6	14
8	Low irradiance light exposure alters the activity of key enzymes in the mitochondrial electron transport chain. , 2020, , .		3
9	Femtosecond transient absorption spectroscopy to study the effects of low irradiance light on cytochrome c and cytochrome c reductase. , 2020, , .		0
10	Effects of specific inhibitors and low irradiance visible light on the redox cycling of cytochrome c in isolated mitochondria using resonance Raman spectroscopy. , 2020, , .		0
11	Real-time optoacoustic temperature determination on cell cultures during heat exposure: a feasibility study. International Journal of Hyperthermia, 2019, 36, 465-471.	2.5	4
12	Effect of ambient temperature and intracellular pigmentation on photothermal damage rate kinetics. Journal of Biomedical Optics, 2019, 24, 1.	2.6	10
13	Investigation of reaction mechanisms of cytochrome c and mitochondria with transient absorption spectroscopy. , 2019, , .		2
14	Photon absorption in the mitochondria: Potential immediate and early events associated with photobiomodulation. , 2019, , .		1
15	A fluorescence-based approach to probing the immediate/early molecular mechanisms of photobiomodulation in vitro. , 2019, , .		1
16	Measuring cytochrome c redox state using resonance Raman spectroscopy to determine metabolic rates in electron transport chain when exposed to light. , 2019, , .		3
17	Novel approach to elucidate the nature of photomodulation therapy. , 2018, , .		1
18	Redox reactions of cytochrome c in isolated mitochondria exposed to blue or red lasers using resonance Raman spectroscopy. , 2018, , .		3

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19	Correlating measured transient temperature rises with damage rate processes in cultured cells. Proceedings of SPIE, 2017, , .	0.8	1
20	Photothermal damage is correlated to the delivery rate of time-integrated temperature. Proceedings of SPIE, 2016, , .	0.8	0
21	Evidence of thermal additivity during short laser pulses in an in vitro retinal model. , 2015, , .		2
22	Assessment of tissue heating under tunable near-infrared radiation. Journal of Biomedical Optics, 2014, 19, 070501.	2.6	55
23	Trends in melanosome microcavitation thresholds for nanosecond pulse exposures in the near infrared. Journal of Biomedical Optics, 2014, 19, 035003.	2.6	12
24	Thermal evaluation of laser exposures in an in vitro retinal model by microthermal sensing. Journal of Biomedical Optics, 2014, 19, 097003.	2.6	2
25	Thermal and damage data from multiple microsecond pulse trains at 532nm in an in vitro retinal model. Proceedings of SPIE, 2014, , .	0.8	4
26	Nitric oxide measurements in hTERT-RPE cells and subcellular fractions exposed to low levels of red light. , 2014, , .		2
27	Towards Deep-Tissue Imaging: Optimizing the Excitation Wavelength. , 2014, , .		0
28	Maxwell's equations-based dynamic laser-tissue interaction model. Computers in Biology and Medicine, 2013, 43, 2278-2286.	7.0	9
29	Hyperthermia sensitizes pigmented cells to laser damage without changing threshold damage temperature. Journal of Biomedical Optics, 2013, 18, 110501.	2.6	6
30	Discovery of photochemical damage mechanisms using <i>in vitro</i> and <i>in silico</i> models. Proceedings of SPIE, 2013, , .	0.8	0
31	Chemically Specific Imaging Through Stimulated Raman Photoexcitation and Ultrasound Detection: Minireview. Australian Journal of Chemistry, 2012, 65, 260.	0.9	6
32	Monitoring stimulated Raman scattering with photoacoustic detection. Optics Letters, 2011, 36, 1233.	3.3	17
33	Chemically-Specific Photoacoustic Imaging using Vibrational Raman Excitation. , 2011, , .		0
34	Stimulated Raman imaging with ultrasound detection. Proceedings of SPIE, 2011, , .	0.8	0
35	Spatially correlated microthermography maps threshold temperature in laser-induced damage. Journal of Biomedical Optics, 2011, 16, 036003.	2.6	36
36	Characterizing temperature-dependent photo-oxidation to explain the abrupt transition from thermal to non-thermal laser damage mechanisms at 413 nm. Proceedings of SPIE, 2011, , .	0.8	0

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37	Mathematical model that describes the transition from thermal to photochemical damage in retinal pigment epithelial cell culture. Journal of Biomedical Optics, 2011, 16, 020504.	2.6	11
38	Detecting mineral content in turbid medium using nonlinear Raman imaging: feasibility study. Journal of Modern Optics, 2011, 58, 1914-1921.	1.3	4
39	Characterizing temperature-dependent photo-oxidation to explain the abrupt transition from thermal to non-thermal laser damage mechanisms at 413 nm. , 2011, , .		1
40	Spatially-correlated microthermography maps threshold temperature in laser-induced damage. , 2011, , .		4
41	Exâ€CARS: exotic configuration for coherent antiâ€Stokes Raman scattering microspectroscopy utilizing two laser sources. Journal of Biophotonics, 2010, 3, 653-659.	2.3	2
42	Stimulated Raman photoacoustic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20335-20339.	7.1	66
43	A Computer-Based Model for Studying the Effects of Lasers on the Retina. , 2010, , .		0
44	<italic>In-vitro</italic> retinal model reveals a sharp transition between laser damage mechanisms. Journal of Biomedical Optics, 2010, 15, 030512.	2.6	16
45	Stimulated Raman Photoacoustic Imaging. , 2010, , .		0
46	Raman microspectroscopy of retinal pigment epithelium cells: real-time imaging the effects of photooxidative stress. , 2009, , .		0
47	Stimulated Raman scattering: old physics, new applications. Journal of Modern Optics, 2009, 56, 1970-1973.	1.3	30
48	Determination of threshold average temperature for cell death in an in vitro retinal model using thermography. , 2009, , .		6
49	In vitro model that approximates retinal damage threshold trends. Journal of Biomedical Optics, 2008, 13, 054014.	2.6	21
50	Laser bioeffects associated with ultrafast lasers: Role of multiphoton absorption. Journal of Laser Applications, 2008, 20, 89-97.	1.7	3
51	Femtosecond light interaction with skin: Microspectroscopy of light-induced changes in collagen matrix. , 2008, , .		1
52	An in vitro corneal model with a laser damage threshold at 2 Î¼m that is similar to that in the rabbit. , 2008, , .		1
53	Real-time monitoring of chemical and structural changes induced by light irradiation of cells and tissues. Proceedings of SPIE, 2008, , .	0.8	1
54	Role of superoxide dismutase in the photochemical response of cultured RPE cells to laser exposure at 413 nm. , 2008, , .		0

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55	Raman microspectroscopy of melanosomes in RPE cells: The effect of light irradiation. , 2008, , .		0
56	Damage thresholds for cultured retinal pigment epithelial cells exposed to lasers at 532â€¸nm and 458â€¸nm. Journal of Biomedical Optics, 2007, 12, 034030.	2.6	16
57	An in vitro model for retinal laser damage. , 2007, , .		3
58	Photochemical damage from chronic 458-nm laser exposures in an artificially pigmented hTERT-RPE1 cell line. , 2006, , .		1
59	Detection of 2-photon oxidation from a NIR laser using confocal microscopy. , 2006, , .		0
60	Accurate measure of laser irradiance threshold for near-infrared photo-oxidation with a modified confocal microscope. Journal of Microscopy, 2006, 221, 164-171.	1.8	5
61	Damage Thresholds for Exposure to NIR and Blue Lasers in an In Vitro RPE Cell System. , 2006, 47, 3065.		39
62	Intracellular signaling mechanisms responsive to laser-induced photochemical and thermal stress. , 2005, , .		2
63	Pectinmethylesterase from the rice weevil, Sitophilus oryzae: cDNA isolation and sequencing, genetic origin, and expression of the recombinant enzyme. Journal of Insect Science, 2005, 5, 21.	1.5	19
64	Pectinmethylesterase from the rice weevil, Sitophilus oryzae: cDNA isolation and sequencing, genetic origin, and expression of the recombinant enzyme. Journal of Insect Science, 2005, 5, 1-9.	0.9	3
65	Microcavitation and spot size dependence for damage of artificially pigmented hTERT-RPE1 cells. , 2004, , .		1
66	Photo-oxidation from mode-locked laser exposure to hTERT-RPE1 cells. , 2004, , .		1
67	Polygalacturonase from Sitophilus oryzae: Possible horizontal transfer of a pectinase gene from fungi to weevils. Journal of Insect Science, 2003, 3, 1-9.	0.9	36
68	Polygalacturonase from Sitophilus oryzae: Possible horizontal transfer of a pectinase gene from fungi to weevils. Journal of Insect Science, 2003, 3, 24.	1.5	32
69	Nonlinear optical characterization of retinal molecules. , 2003, , .		0
70	Melanin and the cellular effects of ultrashort-pulse, near-infrared laser radiation. , 2003, 4961, 97.		1
71	Pigmentation in NIR laser tissue damage. , 2003, , .		5
72	Gene promoter of apoptosis inhibitory protein IAP2: identification of enhancer elements and activation by severe hypoxia. Biochemical Journal, 2002, 364, 413-421.	3.7	37

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73	<title>Evidence for excitation of fluorescence in RPE melanin by multiphoton absorption</title>., 2002, 4617, 172.		1
74	<title>Hydrogen peroxide production in cultured RPE cells exposed to near-infrared lasers</title>., 2002, 4617, 150.		1
75	<title>Cytotoxicity in cultured RPE: a comparative study between continuous-wave and mode-locked lasers</title>., 2002, 4617, 156.		1
76	Apoptosis: definition, mechanisms, and relevance to disease. American Journal of Medicine, 1999, 107, 489-506.	1.5	270
77	Histone Acetyltransferase and Protein Kinase Activities Copurify with a Putative <i>Xenopus</i> RNA Polymerase I Holoenzyme Self-Sufficient for Promoter-Dependent Transcription. Molecular and Cellular Biology, 1999, 19, 796-806.	2.3	38
78	The RNA polymerase I transcription factor UBF is a sequence-tolerant HMG-box protein that can recognize structured nucleic acids. Nucleic Acids Research, 1994, 22, 2651-2657.	14.5	101
79	The RNA polymerase I transactivator upstream binding factor requires its dimerization domain and high-mobility-group (HMG) box 1 to bend, wrap, and positively supercoil enhancer DNA.. Molecular and Cellular Biology, 1994, 14, 6476-6488.	2.3	89
80	Isolation and characterization of folded fragments released by Staphylococcal aureus proteinase from the non-histone chromosomal protein HMG-1. BBA - Proteins and Proteomics, 1989, 996, 125-131.	2.1	7
81	Determination of cell number in monolayer cultures. Analytical Biochemistry, 1986, 159, 109-113.	2.4	600