Jeremy D Rogers

List of Publications by Year
in descending order

78 papers	1,720 citations	270111 25 h-index	325983 40 g-index
78 all docs	78 docs citations	78 times ranked	1632 citing authors

#	Article	IF	Citations
1	Face Masks and Bacterial Dispersion Toward the Periocular Area. Ophthalmology, 2021, 128, 1236-1238.	2.5	22
2	Measuring the spatial distribution of multiply scattered light using a de-scanned image sensor for examining retinal structure contrast. Optics Express, 2021, 29, 552.	1.7	2
3	Noise reduction in supercontinuum sources for OCT by single-pulse spectral normalization. Applied Optics, 2020, 59, 5521.	0.9	2
4	Calibration of liquid crystal variable retarders using a common-path interferometer and fit of a closed-form expression for the retardance curve. Applied Optics, 2020, 59, 10673.	0.9	5
5	Platform for quantitative multiscale imaging of tissue composition. Biomedical Optics Express, 2020, 11, 1927.	1.5	3
6	Designing a Compact, Low-Cost FRET Microscopy Platform for the Undergraduate Classroom. The Biophysicist, 2020, 1, .	0.1	1
7	Quantifying optical properties with visible and near-infrared optical coherence tomography to visualize esophageal microwave ablation zones. Biomedical Optics Express, 2018, 9, 1648.	1.5	4
8	Single-particle photothermal imaging via inverted excitation through high-Q all-glass toroidal microresonators. Optics Express, 2018, 26, 25020.	1.7	16
9	Microscope objective based 4Ï€ spectroscopic tissue scattering goniometry. Biomedical Optics Express, 2017, 8, 3828.	1.5	2
10	Recovering refractive index correlation function from measurement of tissue scattering phase function (Conference Presentation). , 2016, , .		0
11	Skeletal light-scattering accelerates bleaching response in reef-building corals. BMC Ecology, 2016, 16, 10.	3.0	43
12	Pancreatic Î²-Cells From Mice Offset Age-Associated Mitochondrial Deficiency With Reduced KATP Channel Activity. Diabetes, 2016, 65, 2700-2710.	0.3	59
13	Ex Vivo Confocal Spectroscopy of Autofluorescence in Age-Related Macular Degeneration. PLoS ONE, 2016, 11, e0162869.	1.1	4
14	OptogenSIM: a 3D Monte Carlo simulation platform for light delivery design in optogenetics. Biomedical Optics Express, 2015, 6, 4859.	1.5	54
15	Rectal Optical Markers for In Vivo Risk Stratification of Premalignant Colorectal Lesions. Clinical Cancer Research, 2015, 21, 4347-4355.	3.2	17
16	In Vivo Risk Analysis of Pancreatic Cancer Through Optical Characterization of Duodenal Mucosa. Pancreas, 2015, 44, 735-741.	0.5	12
17	Buccal Spectral Markers for Lung Cancer Risk Stratification. PLoS ONE, 2014, 9, e110157.	1.1	18
18	Modeling Light Scattering in Tissue as Continuous Random Media Using a Versatile Refractive Index Correlation Function. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 173-186.	1.9	65

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19	Interferometric Spectroscopy of Scattered Light Can Quantify the Statistics of Subdiffractional Refractive-Index Fluctuations. Physical Review Letters, 2013, 111, 033903.	2.9	64
20	Can OCT be sensitive to nanoscale structural alterations in biological tissue?. Optics Express, 2013, 21, 9043.	1.7	59
21	Method of detecting tissue contact for fiber-optic probes to automate data acquisition without hardware modification. Biomedical Optics Express, 2013, 4, 1401.	1.5	3
22	Ultrastructural alterations in field carcinogenesis measured by enhanced backscattering spectroscopy. Journal of Biomedical Optics, 2013, 18, 097002.	1.4	28
23	Modulation of Light-Enhancement to Symbiotic Algae by Light-Scattering in Corals and Evolutionary Trends in Bleaching. PLoS ONE, 2013, 8, e61492.	1.1	106
24	Inverse spectroscopic Optical Coherence Tomography (ISOCT): non-invasively quantifying the complete optical scattering properties from week scattering tissue. , 2012, , .		1
25	A fiber optic probe design to measure depth- limited optical properties in-vivo with Low-coherence Enhanced Backscattering (LEBS) Spectroscopy. Optics Express, 2012, 20, 19643.	1.7	19
26	Near-field penetrating optical microscopy: a live cell nanoscale refractive index measurement technique for quantification of internal macromolecular density. Optics Letters, 2012, 37, 506.	1.7	8
27	Structural length-scale sensitivities of reflectance measurements in continuous random media under the Born approximation. Optics Letters, 2012, 37, 5220.	1.7	55
28	Open source software for electric field Monte Carlo simulation of coherent backscattering in biological media containing birefringence. Journal of Biomedical Optics, 2012, 17, 115001.	1.4	25
29	Polarized Enhanced Backscattering Spectroscopy for Characterization of Biological Tissues at Subdiffusion Length Scales. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1313-1325.	1.9	25
30	1133 Development and Clinical Performance of a Novel Low Coherence Enhanced Backscattering Spectroscopy (LEBS) Fiberoptic Probe for Duodenal Sensing of Pancreatic Cancer Risk. Gastroenterology, 2012, 142, S-207.	0.6	1
31	The Microscope in a Computer: Image Synthesis from Three-Dimensional Full-Vector Solutions of Maxwellâ€™s Equations at the Nanometer Scale. Progress in Optics, 2012, 57, 1-91.	0.4	15
32	Improving Fecal Colorectal Cancer (CRC) Screening Tests by Field Carcinogenesis Detection From Fecal Colonocytes via Partial Wave Spectroscopic (PWS) Nanocytology. Gastroenterology, 2011, 140, S-406-S-407.	0.6	0
33	Alternate formulation of enhanced backscattering as phase conjugation and diffraction: derivation and experimental observation. Optics Express, 2011, 19, 11922.	1.7	8
34	Numerical simulation of partially coherent broadband optical imaging using the finite-difference time-domain method. Optics Letters, 2011, 36, 1596.	1.7	17
35	Measurement of the spatial backscattering impulse-response at short length scales with polarized enhanced backscattering. Optics Letters, 2011, 36, 4737.	1.7	20
36	Biomedical Applications of Enhanced Backscattering Spectroscopy. , 2011, , .		0

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37	Measurement of optical scattering properties with low-coherence enhanced backscattering spectroscopy. Journal of Biomedical Optics, 2011, 16, 067007.	1.4	19
38	Assessment of pressure, angle, and temporal effects on polarization-gated spectroscopic probe measurements. , 2010, , .		0
39	OC-077â€...Field effect identification via spectroscopic rectal microvasculature enables accurate proximal neoplasia detection by flexible sigmoidoscopy. Gut, 2010, 59, A32.1-A32.	6.1	1
40	Characterization of Light Transport in Scattering Media at Subdiffusion Length Scales with Low-Coherence Enhanced Backscattering. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 619-626.	1.9	26
41	A life detection problem in a High Arctic microbial community. Planetary and Space Science, 2010, 58, 623-630.	0.9	7
42	Optical Detection of Buccal Epithelial Nanoarchitectural Alterations in Patients Harboring Lung Cancer: Implications for Screening. Cancer Research, 2010, 70, 7748-7754.	0.4	56
43	Optical Measurement of Rectal Microvasculature as an Adjunct to Flexible Sigmoidosocopy: Gender-Specific Implications. Cancer Prevention Research, 2010, 3, 844-851.	0.7	13
44	A statistical model of light scattering in biological continuous random media based on the Born approximation. Proceedings of SPIE, 2010, , .	0.8	0
45	Foveated endoscope objective design to combine high resolution with wide field of view. , 2010, , .		3
46	Analysis of pressure, angle and temporal effects on tissue optical properties from â€¨polarization-gated spectroscopic probe measurements. Biomedical Optics Express, 2010, 1, 489.	1.5	24
47	A predictive model of backscattering at subdiffusion length scales. Biomedical Optics Express, 2010, 1, 1034.	1.5	28
48	Depth-resolved measurement of mucosal microvascular blood content using â€¨low-coherence enhanced backscattering spectroscopy. Biomedical Optics Express, 2010, 1, 1196.	1.5	8
49	Nonscalar elastic light scattering from continuous media in the Born approximation: erratum. Optics Letters, 2010, 35, 1367.	1.7	1
50	Design and Implementation of Fiber Optic Probe for measuring Field Effect of Carcinogenesis with Low-Coherence Enhanced Backscattering Spectroscopy (LEBS). , 2010, , .		2
51	Optical Characterization of Coral Skeleton with Low-coherence Enhanced Backscattering Spectroscopy. , 2010, , .		0
52	Modeling spectral dependence of reduced scattering coefficient for continuous random media with the Born Approximation. , 2010, , .		0
53	Rectal Mucosal Microvascular Blood Supply Increase Is Associated with Colonic Neoplasia. Clinical Cancer Research, 2009, 15, 3110-3117.	3.2	34
54	Association between Rectal Optical Signatures and Colonic Neoplasia: Potential Applications for Screening. Cancer Research, 2009, 69, 4476-4483.	0.4	63

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55	Partial-wave microscopic spectroscopy detects subwavelength refractive index fluctuations: an application to cancer diagnosis. Optics Letters, 2009, 34, 518.	1.7	99
56	Nonscalar elastic light scattering from continuous random media in the Born approximation. Optics Letters, 2009, 34, 1891.	1.7	105
57	Accuracy of the Born approximation in calculating the scattering coefficient of biological continuous random media. Optics Letters, 2009, 34, 2679.	1.7	30
58	Spectroscopic Microvascular Blood Detection From the Endoscopically Normal Colonic Mucosa: Biomarker for Neoplasia Risk. Gastroenterology, 2008, 135, 1069-1078.	0.6	62
59	Biophotonic Detection of Increased Microvascular Blood Content (EIBS) As a Marker of Field Carcinogenesis Detection: Potential Adjunctive Technology for Colonoscopy. Gastrointestinal Endoscopy, 2008, 67, AB131.	0.5	1
60	Measuring mucosal blood supply in vivo with a polarization-gating probe. Applied Optics, 2008, 47, 6046.	2.1	46
61	Imaging performance of a miniature integrated microendoscope. Journal of Biomedical Optics, 2008, 13, 054020.	1.4	11
62	Optical methodology for detecting histologically unapparent nanoscale consequences of genetic alterations in biological cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20118-20123.	3.3	119
63	Removal of ghost images by using tilted element optical systems with polynomial surfaces for aberration compensation. Optics Letters, 2006, 31, 504.	1.7	10
64	Multi-modal miniature microscope: 4M Device for bio-imaging applications - an overview of the system. , 2005, , .		3
65	High speed CMOS for structured illumination technique. , 2005, , .		2
66	Multi-modal miniaturized microscope: successful merger of optical, MEMS, and electronic technologies. , 2005, 6050, 310.		0
67	Thick tissue imaging with the Multi-Modal Miniaturized Microscope 4M Device. , 2005, , .		0
68	Imaging with a miniature microscope constructed from grayscale lithographically patterned refractive microlenses. , 2004, , DSuC4.		0
69	Realization of refractive microoptics through grayscale lithographic patterning of photosensitive hybrid glass. Optics Express, 2004, 12, 1294.	1.7	70
70	High resolution, molecular-specific, reflectance imaging in optically dense tissue phantoms with structured-illumination. Optics Express, 2004, 12, 3745.	1.7	31
71	Imaging quality assessment of multi-modal miniature microscope. Optics Express, 2003, 11, 1436.	1.7	16
72	Multimodal miniature microscope (4M Device): novel methodology for multimodality tissue imaging in vivo. , 2003, , .		1

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73	Micro-optical bench for oral imaging. , 2003, , .		0
74	Stray-light analysis for multimodal miniature microscope. , 2002, , .		1
75	Direct photolithographic deforming of organomodified siloxane films for micro-optics fabrication. Applied Optics, 2002, 41, 3988.	2.1	27
76	Fabrication and Assembly of Miniature Imaging Systems Using Lithographically Patterned Micro-optics and Silicon Microstructures. , 2002, , .		1
77	<title>Recent progress in hybrid glass materials for micro-optical component fabrication</title>. , 2001, , .		1
78	Laser trapping of microscopic particles for undergraduate experiments. American Journal of Physics, 2000, 68, 993-1001.	0.3	16