

Jeffrey J L Carson

List of Publications by Year in descending order

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109
papers

1,297
citations

393982

19
h-index

395343

33
g-index

109
all docs

109
docs citations

109
times ranked

1512
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible mechanisms by which extremely low frequency magnetic fields affect opioid function. <i>FASEB Journal</i> , 1995, 9, 807-814.	0.2	107
2	Continuous, Noninvasive, and Localized Microvascular Tissue Oximetry Using Visible Light Spectroscopy. <i>Anesthesiology</i> , 2004, 100, 1469-1475.	1.3	96
3	Detection and Quantification of Myocardial Reperfusion Hemorrhage Using T2*-Weighted CMR. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 1274-1283.	2.3	85
4	Tunable 3D Plasmonic Cavity Nanosensors for Surface-Enhanced Raman Spectroscopy with Sub-femtomolar Limit of Detection. <i>ACS Photonics</i> , 2015, 2, 752-759.	3.2	80
5	Optical resonance transmission properties of nano-hole arrays in a gold film: effect of adhesion layer. <i>Optics Express</i> , 2011, 19, 26186.	1.7	48
6	Nanohole-array-based device for 2D snapshot multispectral imaging. <i>Scientific Reports</i> , 2013, 3, 2589.	1.6	48
7	Behavioural evidence that magnetic field effects in the land snail, <i>Cepaea nemoralis</i> , might not depend on magnetite or induced electric currents. <i>Bioelectromagnetics</i> , 1996, 17, 123-130.	0.9	44
8	Three-dimensional photoacoustic imaging by sparse-array detection and iterative image reconstruction. <i>Journal of Biomedical Optics</i> , 2008, 13, 054052.	1.4	42
9	Nano-hole array structure with improved surface plasmon energy matching characteristics. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	42
10	Depth of photothermal conversion of gold nanorods embedded in a tissue-like phantom. <i>Nanotechnology</i> , 2009, 20, 195102.	1.3	39
11	Four-dimensional photoacoustic imaging of moving targets. <i>Optics Express</i> , 2008, 16, 21570.	1.7	36
12	Optical Degradation of CdSe/ZnS Quantum Dots upon Gamma-Ray Irradiation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2580-2585.	1.5	35
13	Experimental and numerical analysis on the optical resonance transmission properties of nano-hole arrays. <i>Optics Express</i> , 2010, 18, 22255.	1.7	32
14	Image contrast enhancement in angular domain optical imaging of turbid media. <i>Optics Express</i> , 2008, 16, 21492.	1.7	29
15	Effect of surface plasmon energy matching on the sensing capability of metallic nano-hole arrays. <i>Applied Physics Letters</i> , 2012, 100, 063110.	1.5	27
16	Real-time measurement of cytosolic free calcium concentration in Jurkat cells during ELF magnetic field exposure and evaluation of the role of cell cycle. <i>Bioelectromagnetics</i> , 2006, 27, 354-364.	0.9	26
17	Large area periodic, systematically changing, multishape nanostructures by laser interference lithography and cell response to these topographies. <i>Journal of Biomedical Optics</i> , 2013, 18, 035002.	1.4	22
18	Enhanced Effectiveness of Radiochemotherapy with Tirapazamine by Local Application of Electric Pulses to Tumors. <i>Radiation Research</i> , 2004, 162, 185-193.	0.7	20

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19	Real-time measurement of cytosolic free calcium concentration in HL60 cells during static magnetic field exposure and activation by ATP. <i>Bioelectromagnetics</i> , 2008, 29, 439-446.	0.9	20
20	Development and characterization of an omni-directional photoacoustic point source for calibration of a staring 3D photoacoustic imaging system. <i>Optics Express</i> , 2009, 17, 15228.	1.7	20
21	Perfusion and Metabolic Neuromonitoring during Ventricular Taps in Infants with Post-Hemorrhagic Ventricular Dilatation. <i>Brain Sciences</i> , 2020, 10, 452.	1.1	20
22	A Three-Dimensional Plasmonic Nanostructure with Extraordinary Optical Transmission. <i>Plasmonics</i> , 2013, 8, 217-224.	1.8	18
23	Optical Detection of Tumors In Vivo by Visible Light Tissue Oximetry. <i>Technology in Cancer Research and Treatment</i> , 2005, 4, 227-234.	0.8	17
24	Analysis of a photoacoustic imaging system by the crosstalk matrix and singular value decomposition. <i>Optics Express</i> , 2010, 18, 11406.	1.7	16
25	Effect of quantum interference on absorption of light in metamaterial hybrids. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 445103.	1.3	16
26	Development of a Human Photoacoustic Imaging Reporter Gene Using the Clinical Dye Indocyanine Green. <i>Radiology Imaging Cancer</i> , 2019, 1, e190035.	0.7	15
27	Intraoperative photoacoustic screening of breast cancer: a new perspective on malignancy visualization and surgical guidance. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	14
28	Real-time measurement of cytosolic free calcium concentration in DEM-treated HL60 cells during static magnetic field exposure and activation by ATP. <i>Bioelectromagnetics</i> , 2009, 30, 213-221.	0.9	13
29	Localization of spherical lesions in tumor-mimicking phantoms by 3D sparse array photoacoustic imaging. <i>Medical Physics</i> , 2010, 37, 1619-1628.	1.6	13
30	Metamaterial-based theoretical description of light scattering by metallic nano-hole array structures. <i>Journal of Applied Physics</i> , 2015, 117, 184302.	1.1	13
31	Extremely Low Frequency Magnetic Field Exposure from MRI/MRS Procedures. <i>Annals of the New York Academy of Sciences</i> , 1992, 649, 44-58.	1.8	12
32	Transillumination hyperspectral imaging for histopathological examination of excised tissue. <i>Journal of Biomedical Optics</i> , 2011, 16, 086014.	1.4	12
33	A study of angle dependent surface plasmon polaritons in nano-hole array structures. <i>Journal of Applied Physics</i> , 2016, 120, 034302.	1.1	12
34	Lipid-weighted intraoperative photoacoustic tomography of breast tumors: Volumetric comparison to preoperative MRI. <i>Photoacoustics</i> , 2020, 18, 100165.	4.4	12
35	Contrast and resolution analysis of iterative angular domain optical projection tomography. <i>Optics Express</i> , 2010, 18, 19444.	1.7	11
36	Singular value decomposition analysis of a photoacoustic imaging system and 3D imaging at 07 FPS. <i>Optics Express</i> , 2011, 19, 13405.	1.7	11

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37	Effect of 100 mT homogeneous static magnetic field on $[Ca^{2+}]_c$ response to ATP in HL-60 cells following GSH depletion. <i>Bioelectromagnetics</i> , 2009, 30, 322-329.	0.9	10
38	The effect of temperature and freeze-thaw processes on gold nanorods. <i>Nanotechnology</i> , 2009, 20, 505502.	1.3	10
39	Surface plasmon resonance sensing properties of a 3D nanostructure consisting of aligned nanohole and nanocone arrays. <i>Analyst, The</i> , 2014, 139, 1876-1882.	1.7	10
40	Response of the Peroxidase-Oxidase Oscillator to Light Is Controlled by MB+ α -NADH Photochemistry. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8637-8642.	1.2	8
41	Effect of surface plasmon cross-talk on optical properties of closely packed nano-hole arrays. <i>Optics Express</i> , 2011, 19, 25773.	1.7	8
42	Combined 3D photoacoustic and 2D fluorescence imaging of indocyanine green contrast agent flow. <i>Proceedings of SPIE</i> , 2013, , .	0.8	8
43	Fluorescence spectrophotometer for the real time detection of cytosolic free calcium from cell suspensions during exposure to extremely low frequency magnetic fields. <i>Review of Scientific Instruments</i> , 1996, 67, 4336-4346.	0.6	7
44	3D photoacoustic imaging using a staring sparse array with 60 transducers. <i>Proceedings of SPIE</i> , 2012, , .	0.8	7
45	Single-shot 4-step phase-shifting multispectral fringe projection profilometry. <i>Optics Express</i> , 2021, 29, 27975.	1.7	7
46	3D photoacoustic imaging. <i>Proceedings of SPIE</i> , 2010, , .	0.8	6
47	Angular domain fluorescence imaging for small animal research. <i>Journal of Biomedical Optics</i> , 2010, 15, 016023.	1.4	6
48	Objective Assessment and Design Improvement of a Staring, Sparse Transducer Array by the Spatial Crosstalk Matrix for 3D Photoacoustic Tomography. <i>PLoS ONE</i> , 2015, 10, e0124759.	1.1	6
49	Synthesis and in vitro cytotoxicity of mPEG-SH modified gold nanorods. , 2008, , .		5
50	Angular distribution of quasi-ballistic light measured through turbid media using angular domain optical imaging. <i>Proceedings of SPIE</i> , 2009, , .	0.8	5
51	Effect of glutathione depletion, hyperthermia, and a 100 μ mT static magnetic field on an hsp70/luc reporter system. <i>Bioelectromagnetics</i> , 2011, 32, 453-462.	0.9	5
52	Bolus tracking with nanofilter-based multispectral videography for capturing microvasculature hemodynamics. <i>Scientific Reports</i> , 2015, 4, 4737.	1.6	5
53	Structured-light surface scanning system to evaluate breast morphology in standing and supine positions. <i>Scientific Reports</i> , 2020, 10, 14087.	1.6	5
54	Measurement of photoacoustic transducer position by robotic source placement and nonlinear parameter estimation. , 2008, , .		3

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55	Measurement of photoacoustic detector sensitivity distribution by robotic source placement. Proceedings of SPIE, 2008, , .	0.8	3
56	The effect of 100 μ mT SMF on activation of the hsp70 promoter in a heat shock/luciferase reporter system. Journal of Cellular Biochemistry, 2009, 108, 956-962.	1.2	3
57	Angular domain optical imaging of turbid media using enhanced micro-tunnel filter arrays. Proceedings of SPIE, 2009, , .	0.8	3
58	Hyperspectral optical imaging of tissues using silicon micromachined microchannel arrays. Proceedings of SPIE, 2010, , .	0.8	3
59	Method for imaging quantum dots during exposure to gamma radiation. , 2011, , .		3
60	Potential for photoacoustic imaging of the neonatal brain. , 2013, , .		3
61	PhaseWare: Phase map retrieval for fringe projection profilometry and off-axis digital holographic interferometry. SoftwareX, 2021, 13, 100652.	1.2	3
62	Algorithm for phase-displacement conversion from reflection digital holographic interferometry. , 2019, , .		3
63	Angular domain fluorescent lifetime imaging in turbid media. , 2009, , .		2
64	Angular domain spectroscopic imaging of turbid media using silicon micromachined microchannel arrays. , 2010, , .		2
65	Depth and extent of gold nanorod photothermal conversion in tissue-mimicking phantoms. Proceedings of SPIE, 2010, , .	0.8	2
66	Angular domain spectroscopic imaging for breast cancer margin assessment after lumpectomy. Proceedings of SPIE, 2012, , .	0.8	2
67	Development of a neonatal skull phantom for photoacoustic imaging. Proceedings of SPIE, 2013, , .	0.8	2
68	Single-shot detection of 8 unique monochrome fringe patterns representing 4 distinct directions via multispectral fringe projection profilometry. Scientific Reports, 2021, 11, 10367.	1.6	2
69	3D photoacoustic imaging of a moving target. Proceedings of SPIE, 2009, , .	0.8	1
70	Effect of time gating and polarization discrimination of propagating light in turbid media during angular domain imaging (ADI). , 2009, , .		1
71	Development of an omni-directional photoacoustic source for the characterization of a hemispherical sparse detector array. Proceedings of SPIE, 2009, , .	0.8	1
72	Analysis of a photoacoustic imaging system by singular value decomposition. , 2010, , .		1

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73	Depth and extent of gold nanorod photothermal conversion in tissue-like phantoms that contain hemoglobin. Proceedings of SPIE, 2010, , .	0.8	1
74	Angular domain fluorescence lifetime imaging: a tissue-like phantom study. Optics Express, 2010, 18, 23247.	1.7	1
75	Optimization of radial angular filter arrays for detecting the angular distribution of light. , 2011, , .		1
76	Use of a radial angular filter array to estimate the position of an optically attenuating object within a turbid medium. Proceedings of SPIE, 2012, , .	0.8	1
77	Angle-resolved spectroscopy: a tissue-mimicking phantom study. , 2012, , .		1
78	Transmission resonance of a three-dimensional nanostructure with a localized surface plasmon property. , 2013, , .		1
79	Dynamic contrast-enhanced 3D photoacoustic imaging. Proceedings of SPIE, 2013, , .	0.8	1
80	Hyperspectral angular domain imaging for ex-vivo breast tumor detection. , 2013, , .		1
81	Real-time multispectral 3-D photoacoustic imaging of blood phantoms. , 2013, , .		1
82	Radial angular filter arrays for angle-resolved scattering spectroscopy. Optics Express, 2013, 21, 2928.	1.7	1
83	Mesoscopic reflectance angular domain spectroscopic imaging. Journal of Biomedical Optics, 2014, 19, 076010.	1.4	1
84	Holographic camera for non-contact measurement of nanoscale surface heights. , 2019, , .		1
85	Development of a scanning photoacoustic tomography system for tumor margin assessment in breast conserving surgery. , 2019, , .		1
86	Image contrast enhancement during time-angular domain imaging through turbid media by estimation of background scattered light. , 2009, , .		0
87	Angular domain optical projection tomography in turbid media. Proceedings of SPIE, 2009, , .	0.8	0
88	Development of a hand-held 3D photoacoustic imaging system for breast cancer detection. Proceedings of SPIE, 2010, , .	0.8	0
89	Contrast and resolution analysis of angular domain imaging for iterative optical projection tomography reconstruction. Proceedings of SPIE, 2010, , .	0.8	0
90	Experimental analysis of cross-talk effects between a series of nano-hole structures on the same metal film. , 2011, , .		0

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91	Estimate of effective singular values of a photoacoustic imaging system by noise characterization. , 2011, , .		0
92	Effect of adhesion layer on optical resonance transmission properties of nano-hole arrays in an optically thick gold film. , 2011, , .		0
93	Experimental analysis of optical resonance transmission properties of sub-wavelength hole arrays in optically thick metal films. , 2011, , .		0
94	Deep illumination angular domain spectroscopic imaging: tissue-mimicking phantom study. Proceedings of SPIE, 2011, , .	0.8	0
95	Angular-domain spectroscopic imaging of turbid media: derivative analysis. , 2011, , .		0
96	Three-dimensional angular domain optical projection tomography. Proceedings of SPIE, 2011, , .	0.8	0
97	Surface plasmon resonance sensing using index-matched metallic nano-hole array structures. Proceedings of SPIE, 2012, , .	0.8	0
98	Multispectral angular domain imaging with a tunable pulsed laser light source. , 2012, , .		0
99	A comprehensive study on metallic nano-hole arrays with a surface plasmon energy matching property. , 2013, , .		0
100	Towards future systems with nano-optics contributions. Proceedings of SPIE, 2013, , .	0.8	0
101	Dr. Marvin C. Ziskin, 2011 Recipient of the d'Arsonval Award. Bioelectromagnetics, 2013, 34, 1-2.	0.9	0
102	Resolution analysis of an angular domain imaging system with two dimensional angular filters. , 2013, , .		0
103	Two-dimensional angular filter array for angular domain imaging with 3D printed angular filters. Proceedings of SPIE, 2013, , .	0.8	0
104	Hyperspectral imaging of tissue mimicking phantoms: principle component analysis. , 2013, , .		0
105	Two-dimensional multispectral imager based on tiled arrangement of metallic nanohole arrays. Proceedings of SPIE, 2014, , .	0.8	0
106	Nanostructure-based optical filters for multispectral imaging applications. , 2014, , .		0
107	Three dimensional metallic nanostructures for bulk and bio-SPR sensing applications. , 2014, , .		0
108	Simultaneous Monitoring of the Cerebral and Skeletomuscular Microcirculation using Hyperspectral Near Infrared Spectroscopy and Intravital Video Microscopy. FASEB Journal, 2021, 35, .	0.2	0

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109	Non-contact imaging of breast surface for breast surgical planning. , 2019, , .		0