

Adam Gibson

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,619
citations

236925

25
h-index

189892

50
g-index

70
all docs

70
docs citations

70
times ranked

2040
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of force, time, and rotation on the transfer of ammonium nitrate: A reductionist approach to understanding evidence dynamics. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2022, 62, 129-136.	2.1	2
2	Cambrian edrioasteroid reveals new mechanism for secondary reduction of the skeleton in echinoderms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212733.	2.6	2
3	Correction of Dropped Frames in High-resolution Push-broom Hyperspectral Images for Cultural Heritage. <i>Journal on Computing and Cultural Heritage</i> , 2022, 15, 1-19.	2.1	0
4	Farewell editorial. <i>Biomedical Optics Express</i> , 2022, 13, 408.	2.9	0
5	Sampling of explosive residues: The use of a gelatine-based medium for the recovery of ammonium nitrate. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2020, 60, 531-537.	2.1	5
6	Understanding multispectral imaging of cultural heritage: Determining best practice in MSI analysis of historical artefacts. <i>Journal of Cultural Heritage</i> , 2020, 45, 339-350.	3.3	26
7	Co-registered combined OCT and THz imaging to extract depth and refractive index of a tissue-equivalent test object. <i>Biomedical Optics Express</i> , 2020, 11, 1417.	2.9	14
8	Affine registration of multispectral images of historical documents for optimized feature recovery. <i>Digital Scholarship in the Humanities</i> , 2019, , .	0.7	1
9	Technical Note: Simulation of dose buildup in proton pencil beams. <i>Medical Physics</i> , 2019, 46, 3734-3738.	3.0	12
10	Diffuse optical tomography for the detection of perinatal stroke at the cot side: a pilot study. <i>Pediatric Research</i> , 2019, 85, 1001-1007.	2.3	9
11	An assessment of multimodal imaging of subsurface text in mummy cartonnage using surrogate papyrus phantoms. <i>Heritage Science</i> , 2018, 6, .	2.3	22
12	Improved X-ray computed tomography reconstruction of the largest fragment of the Antikythera Mechanism, an ancient Greek astronomical calculator. <i>PLoS ONE</i> , 2018, 13, e0207430.	2.5	8
13	Quality assurance in proton beam therapy using a plastic scintillator and a commercially available digital camera. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 210-219.	1.9	29
14	Continuing the success of <i>Biomedical Optics Express</i> : editorial. <i>Biomedical Optics Express</i> , 2016, 7, 420.	2.9	1
15	Cultural Heritage Destruction: Experiments with Parchment and Multispectral Imaging. , 2016, , 121-146.		0
16	Evaluating real-time image reconstruction in diffuse optical tomography using physiologically realistic test data. <i>Biomedical Optics Express</i> , 2015, 6, 4719.	2.9	10
17	Dose ratio proton radiography using the proximal side of the Bragg peak. <i>Medical Physics</i> , 2015, 42, 1871-1883.	3.0	9
18	A comparison of the dose distributions from three proton treatment planning systems in the planning of meningioma patients with single-field uniform dose pencil beam scanning. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 86-99.	1.9	8

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19	Automated estimation of disease recurrence in head and neck cancer using routine healthcare data. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 117, 412-424.	4.7	11
20	Imaging Cerenkov emission as a quality assurance tool in electron radiotherapy. <i>Physics in Medicine and Biology</i> , 2014, 59, 1963-1978.	3.0	72
21	Range verification for eye proton therapy based on proton-induced x-ray emissions from implanted metal markers. <i>Physics in Medicine and Biology</i> , 2014, 59, 2623-2638.	3.0	3
22	A 3D In Vitro Cancer Model as a Platform for Nanoparticle Uptake and Imaging Investigations. <i>Small</i> , 2014, 10, 3954-3961.	10.0	25
23	Terahertz Time-Domain Spectroscopy of Human Blood. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 363-367.	3.1	29
24	Monitoring the response to neoadjuvant hormone therapy for locally advanced breast cancer using three-dimensional time-resolved optical mammography. <i>Journal of Biomedical Optics</i> , 2013, 18, 056012.	2.6	22
25	Breast cancer risk scores in a standard screening population. <i>Breast Cancer Management</i> , 2013, 2, 463-479.	0.2	5
26	Multispectral Imaging of Degraded Parchment. <i>Lecture Notes in Computer Science</i> , 2013, , 143-157.	1.3	8
27	Diffuse optical imaging of the newborn infant brain. , 2012, , .		3
28	Three-dimensional optical topography of brain activity in infants watching videos of human movement. <i>Physics in Medicine and Biology</i> , 2012, 57, 1135-1146.	3.0	12
29	Simultaneous EEG and diffuse optical imaging of seizure-related hemodynamic activity in the newborn infant brain. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
30	A systematic review of computer-assisted diagnosis in diagnostic cancer imaging. <i>European Journal of Radiology</i> , 2012, 81, e70-e76.	2.6	88
31	A Review of Mechanisms of Contrast for Diffuse Optical Imaging of Cancer. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 185-202.	1.5	9
32	Time-resolved optical imaging for monitoring response of breast cancer patients to therapy. , 2012, , .		0
33	Transient haemodynamic events in neurologically compromised infants: A simultaneous EEG and diffuse optical imaging study. <i>NeuroImage</i> , 2011, 55, 1610-1616.	4.2	38
34	Diffuse optical cortical mapping using the boundary element method. <i>Biomedical Optics Express</i> , 2011, 2, 568.	2.9	8
35	Monitoring the Response to Primary Medical Therapy for Breast Cancer Using Three-Dimensional Time-Resolved Optical Mammography. <i>Technology in Cancer Research and Treatment</i> , 2011, 10, 533-547.	1.9	15
36	Combination of Boundary Element Method and Finite Element Method in Diffuse Optical Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2737-2745.	4.2	12

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37	Identification of the optimal wavelengths for optical topography: a photon measurement density function analysis. <i>Journal of Biomedical Optics</i> , 2010, 15, 056002.	2.6	26
38	A tissue equivalent phantom for simultaneous near-infrared optical tomography and EEG. <i>Biomedical Optics Express</i> , 2010, 1, 425.	2.9	13
39	Numerical modelling and image reconstruction in diffuse optical tomography. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3073-3093.	3.4	158
40	Pulse oximetry as a medical physics practical on school trips. <i>Physics Education</i> , 2009, 44, 577-581.	0.5	1
41	Diffuse optical imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3055-3072.	3.4	131
42	Selection of regularization parameter for optical topography. <i>Journal of Biomedical Optics</i> , 2009, 14, 034044.	2.6	52
43	Optical tomography of breast cancer monitoring response to primary medical therapy. <i>Targeted Oncology</i> , 2009, 4, 219-233.	3.6	39
44	Identification of the optimal wavelengths in optical topography using photon density measurement functions. , 2009, , .		2
45	Diffuse optical imaging of the healthy and diseased breast: A systematic review. <i>Breast Cancer Research and Treatment</i> , 2008, 108, 9-22.	2.5	251
46	Assessing the validity of modulation transfer function evaluation techniques with application to small area and scanned digital detectors. <i>Review of Scientific Instruments</i> , 2008, 79, 113103.	1.3	4
47	Optimal Selection of the Regularization Parameter for Optical Topography Image Reconstruction. , 2008, , .		0
48	Three-dimensional whole-head optical tomography of passive motor evoked responses in the neonate. <i>NeuroImage</i> , 2006, 30, 521-528.	4.2	120
49	Three dimensional optical imaging of blood volume and oxygenation in the neonatal brain. <i>NeuroImage</i> , 2006, 31, 1426-1433.	4.2	86
50	Comparison between a time-domain and a frequency-domain system for optical tomography. <i>Journal of Biomedical Optics</i> , 2006, 11, 064015.	2.6	21
51	Multi-dimensional time-correlated single photon counting applied to diffuse optical tomography. , 2005, , .		13
52	Monitoring recovery after laser surgery of the breast with optical tomography: a case study. <i>Applied Optics</i> , 2005, 44, 1898.	2.1	23
53	Optical tomography of the breast using a multi-channel time-resolved imager. <i>Physics in Medicine and Biology</i> , 2005, 50, 2503-2517.	3.0	97
54	Imaging changes in blood volume and oxygenation in the newborn infant brain using three-dimensional optical tomography. <i>Physics in Medicine and Biology</i> , 2004, 49, 1117-1130.	3.0	145

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55	Design of a portable near infrared system for topographic imaging of the brain in babies. Review of Scientific Instruments, 2004, 75, 3276-3283.	1.3	28
56	Three-dimensional optical imaging of hemodynamic and oxygenation changes in the newborn infant brain. , 2004, , .		0
57	Electrical impedance tomography of human brain function using reconstruction algorithms based on the finite element method. NeuroImage, 2003, 20, 752-764.	4.2	141
58	Optical tomography of a realistic neonatal head phantom. Applied Optics, 2003, 42, 3109.	2.1	48
59	Computing in optics - Computational aspects of diffuse optical tomography. Computing in Science and Engineering, 2003, 5, 33-41.	1.2	42
60	Assessment of an in situ temporal calibration method for time-resolved optical tomography. Journal of Biomedical Optics, 2003, 8, 87.	2.6	35
61	Validation of the use of homogeneous reference phantoms for optical tomography of the neonatal brain. , 2003, , .		3
62	Three-dimensional optical tomography of the premature infant brain. Physics in Medicine and Biology, 2002, 47, 4155-4166.	3.0	254
63	Three-Dimensional Electrical Impedance Tomography of Human Brain Activity. NeuroImage, 2001, 13, 283-294.	4.2	165
64	Electrical impedance tomography of human brain activity with a two-dimensional ring of scalp electrodes. Physiological Measurement, 2001, 22, 167-175.	2.1	40
65	Validation of a 3D reconstruction algorithm for EIT of human brain function in a realistic head-shaped tank. Physiological Measurement, 2001, 22, 177-185.	2.1	55
66	Solving the forward problem in electrical impedance tomography for the human head using IDEAS (integrated design engineering analysis software), a finite element modelling tool. Physiological Measurement, 2001, 22, 55-64.	2.1	40
67	Two-dimensional finite element modelling of the neonatal head. Physiological Measurement, 2000, 21, 45-52.	2.1	35
68	Development of a Reconstruction Algorithm for Imaging Impedance Changes in the Human Head. Annals of the New York Academy of Sciences, 1999, 873, 482-492.	3.8	4
69	Assessment and Calibration of a Low-Frequency System for Electrical Impedance Tomography (EIT), Optimized for Use in Imaging Brain Function in Ambulant Human Subjects. Annals of the New York Academy of Sciences, 1999, 873, 512-519.	3.8	18
70	The value of critical destruction: Evaluating multispectral image processing methods for the analysis of primary historical texts. Digital Scholarship in the Humanities, 0, , fqv036.	0.7	11