

John A Crowe

List of Publications by Year in descending order

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84
papers

1,965
citations

361296

20
h-index

315616

38
g-index

86
all docs

86
docs citations

86
times ranked

2497
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of pore size and structure of tissue engineering scaffolds produced by supercritical fluid processing. , 2007, 14, 64-77.		200
2	Medical device development: The challenge for ergonomics. Applied Ergonomics, 2008, 39, 271-283.	1.7	162
3	Monitoring the fetal heart non-invasively: a review of methods. Journal of Perinatal Medicine, 2001, 29, 408-16.	0.6	144
4	A web-based tool for eliciting probability distributions from experts. Environmental Modelling and Software, 2014, 52, 1-4.	1.9	128
5	Capturing user requirements in medical device development: the role of ergonomics. Physiological Measurement, 2006, 27, R49-R62.	1.2	108
6	A user-centred approach to requirements elicitation in medical device development: A case study from an industry perspective. Applied Ergonomics, 2012, 43, 184-190.	1.7	98
7	Wavelet transform as a potential tool for ECG analysis and compression. Journal of Biomedical Engineering, 1992, 14, 268-272.	0.7	80
8	Dependence of inertial measurements of distance on accelerometer noise. Measurement Science and Technology, 2002, 13, 1163-1172.	1.4	75
9	Non-Invasive Optical Methods for the Study of Cerebral Metabolism in the Human Newborn: A Technique for the Future?. Journal of Medical Engineering and Technology, 1985, 9, 160-166.	0.8	52
10	The effect of design on the usability and real world effectiveness of medical devices: A case study with adolescent users. Applied Ergonomics, 2013, 44, 799-810.	1.7	45
11	Forehead reflectance photoplethysmography to monitor heart rate: preliminary results from neonatal patients. Physiological Measurement, 2014, 35, 881-893.	1.2	44
12	Validation of Human Whole Blood Oximetry, Using a Hyperspectral Fundus Camera with a Model Eye. , 2011, 52, 2851.		41
13	Menstrual symptometrics: a simple computer-aided method to quantify menstrual cycle disorders. Fertility and Sterility, 2002, 78, 96-101.	0.5	37
14	Towards personalised ambient monitoring of mental health via mobile technologies. Technology and Health Care, 2010, 18, 275-284.	0.5	36
15	The feasibility of long-term fetal heart rate monitoring in the home environment using maternal abdominal electrodes. Physiological Measurement, 1995, 16, 195-202.	1.2	35
16	Image-based characterization of foamed polymeric tissue scaffolds. Biomedical Materials (Bristol), 2008, 3, 015011.	1.7	35
17	Marked variation in newborn resuscitation practice: A national survey in the UK. Resuscitation, 2012, 83, 607-611.	1.3	34
18	Fibre-optics and optical sensors in medicine. Medical and Biological Engineering and Computing, 1987, 25, 597-604.	1.6	33

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19	Meeting the needs of monitoring in tissue engineering. <i>Regenerative Medicine</i> , 2007, 2, 145-160.	0.8	30
20	Neonatal head and torso vibration exposure during inter-hospital transfer. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 99-113.	1.0	29
21	Detrended fluctuation analysis: a suitable method for studying fetal heart rate variability?. <i>Physiological Measurement</i> , 2004, 25, 763-774.	1.2	22
22	Rotating orthogonal polarization imaging. <i>Optics Letters</i> , 2008, 33, 1503.	1.7	22
23	Exploring the Potential for Automatic Extraction of Vegetation Phenological Metrics from Traffic Webcams. <i>Remote Sensing</i> , 2013, 5, 2200-2218.	1.8	21
24	Sequential recording of the abdominal fetal electrocardiogram and magnetocardiogram. <i>Physiological Measurement</i> , 1995, 16, 43-47.	1.2	20
25	Antenatal assessment using the FECG obtained via abdominal electrodes. <i>Journal of Perinatal Medicine</i> , 1996, 24, 43-53.	0.6	20
26	Simulation of laser tomography in a heterogeneous biological medium. <i>Medical and Biological Engineering and Computing</i> , 1986, 24, 407-414.	1.6	19
27	Accurate neonatal heart rate monitoring using a new wireless, cap mounted device. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2021, 110, 72-78.	0.7	18
28	Mobile psychiatry: towards improving the care for bipolar disorder. <i>International Journal of Mental Health Systems</i> , 2012, 6, 5.	1.1	17
29	In situ monitoring of 3D in vitro cell aggregation using an optical imaging system. <i>Biotechnology and Bioengineering</i> , 2008, 100, 159-167.	1.7	16
30	Comparison of Methods for Reducing the Effects of Scattering in Spectrophotometry. <i>Applied Spectroscopy</i> , 2006, 60, 1157-1166.	1.2	15
31	Reduction of Error in Spectrophotometry of Scattering Media Using Polarization Techniques. <i>Applied Spectroscopy</i> , 2007, 61, 1379-1389.	1.2	15
32	Surgeon opinion on new technologies in orthopaedic surgery. <i>Journal of Medical Engineering and Technology</i> , 2011, 35, 139-148.	0.8	15
33	Ultrasonic monitoring of foamed polymeric tissue scaffold fabrication. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3071-3080.	1.7	14
34	Laser Doppler Blood Flow Imaging Using a CMOS Imaging Sensor with On-Chip Signal Processing. <i>Sensors</i> , 2013, 13, 12632-12647.	2.1	14
35	The wavelength dependence of the photoplethysmogram and its implication to pulse oximetry. , 1992, , .		13
36	64Å—64 pixel smart sensor array for laser Doppler blood flow imaging. <i>Optics Letters</i> , 2012, 37, 3060.	1.7	13

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37	Camera pixel for coherent detection of modulated light. <i>Electronics Letters</i> , 2004, 40, 1403.	0.5	12
38	Real-time physical data acquisition through a remote sensing platform on a polar lake. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 191-201.	1.0	12
39	Experimental and theoretical evaluation of rotating orthogonal polarization imaging. <i>Journal of Biomedical Optics</i> , 2009, 14, 034006.	1.4	12
40	Foetal scalp mass spectrometer blood-gas transducer. <i>Medical and Biological Engineering and Computing</i> , 1982, 20, 375-382.	1.6	11
41	Does fractality in heart rate variability indicate the development of fetal neural processes?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 331, 225-230.	0.9	11
42	Light path-length distributions within the retina. <i>Journal of Biomedical Optics</i> , 2014, 19, 036008.	1.4	11
43	Medical device design for adolescent adherence and developmental goals: a case study of a cystic fibrosis physiotherapy device. <i>Patient Preference and Adherence</i> , 2014, 8, 301.	0.8	10
44	A method for foetal heart rate monitoring during magnetic resonance imaging using Doppler ultrasound. <i>Physiological Measurement</i> , 1999, 20, 363-368.	1.2	9
45	Not a minor problem: involving adolescents in medical device design research. <i>Theoretical Issues in Ergonomics Science</i> , 2014, 15, 181-192.	1.0	9
46	Native Apps versus Web Apps: Which Is Best for Healthcare Applications?. <i>Lecture Notes in Computer Science</i> , 2013, , 189-196.	1.0	9
47	Selection of pulse oximetry equipment for ambulatory monitoring. <i>Journal of Medical Engineering and Technology</i> , 2001, 25, 17-24.	0.8	8
48	Complementary metal-oxide-semiconductor imaging array with laser Doppler blood flow processing. <i>Optical Engineering</i> , 2008, 47, 104401.	0.5	8
49	Growth Spectrum Complexity Dictates Aromatic Intensity in Coriander (<i>Coriandrum sativum</i> L.). <i>Frontiers in Plant Science</i> , 2020, 11, 462.	1.7	8
50	Smartphone monitoring of in-ambulance vibration and noise. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 428-436.	1.0	8
51	Snappy App: A Mobile Continuous Performance Test with Physical Activity Measurement for Assessing Attention Deficit Hyperactivity Disorder. <i>Lecture Notes in Computer Science</i> , 2014, , 363-373.	1.0	8
52	Development of mobile psychiatry for bipolar disorder patients. , 2010, 2010, 5484-7.		7
53	Low resource processing algorithms for laser Doppler blood flow imaging. <i>Medical Engineering and Physics</i> , 2011, 33, 720-729.	0.8	7
54	User Requirements for the Development of Smartphone Self-reporting Applications in Healthcare. <i>Lecture Notes in Computer Science</i> , 2013, , 36-45.	1.0	7

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55	Detection of previously unrecognized daytime desaturation in children with chronic lung disease. Journal of Medical Engineering and Technology, 2007, 31, 101-108.	0.8	6
56	Time-lapsed imaging for in-process evaluation of supercritical fluid processing of tissue engineering scaffolds. Biotechnology Progress, 2009, 25, 1176-1183.	1.3	6
57	Time-optimized X-ray micro-CT imaging of polymer based scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 360-367.	1.6	6
58	A Windows Application for Real-Time Fetal ECG Analysis. Journal of Biomedical Informatics, 1994, 27, 419-433.	0.7	5
59	<title>Laser Doppler blood flowmetry with FPGA processing</title>. , 2004, , .		5
60	Quantitative spectrophotometry of scattering media via frequency-domain and constant-intensity measurements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1969.	0.8	5
61	CMOS Sensors for Imaging Blood Flow. Optics and Photonics News, 2010, 21, 32.	0.4	5
62	Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. Journal of Biomedical Optics, 2012, 17, 026014.	1.4	5
63	Anti-confocal assessment of middle ear inflammation. Biomedical Optics Express, 2017, 8, 230.	1.5	4
64	Generation and simulated imaging of pseudo-scaffolds to aid characterisation by X-ray micro CT. Biomaterials, 2009, 30, 4233-4246.	5.7	3
65	LIQUID CRYSTAL BASED ROTATING ORTHOGONAL POLARIZATION IMAGING SYSTEM. Journal of Innovative Optical Health Sciences, 2009, 02, 245-251.	0.5	3
66	A multi-state model to improve the design of an automated system to monitor the activity patterns of patients with bipolar disorder. Journal of the Operational Research Society, 2013, 64, 372-383.	2.1	3
67	Anti-confocal versus confocal assessment of the middle ear simulated by Monte Carlo methods. Biomedical Optics Express, 2015, 6, 3820.	1.5	3
68	Extraction of the abdominal fetal electrocardiogram for use as an indicator of antenatal fetal status. , 1992, , .		2
69	The application of an Actel field programmable gate array in the design of an ECG RR interval recorder. Journal of Medical Engineering and Technology, 1995, 19, 198-204.	0.8	2
70	Data compression of fetal Doppler ultrasound audio signals using zero-crossings analysis. Medical Engineering and Physics, 1997, 19, 572-580.	0.8	2
71	Investigation of optimum wavelengths for oximetry. , 2009, , .		2
72	An explanation for the effectiveness of the "Draijer"™ algorithm for high speed laser Doppler perfusion imaging. Medical and Biological Engineering and Computing, 2012, 50, 211-214.	1.6	2

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73	Clinical Scene Segmentation with Tiny Datasets. , 2019, , .		2
74	Feasibility of a Novel ECG Electrode Placement Method in Newborn Infants. Neonatology, 2022, 119, 264-267.	0.9	2
75	Rotating orthogonal polarization imaging for tissue imaging. , 2008, , .		1
76	Determination of the validity of spectrophotometric measurements based upon cumulants of the temporal point-spread function. Optics Letters, 2008, 33, 1339.	1.7	1
77	Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. , 2011, , .		1
78	Full field laser Doppler flowmetry with custom made CMOS sensors. Proceedings of SPIE, 2009, , .	0.8	1
79	A polarized light imaging instrument for characterizing skin lesions. , 2004, , .		0
80	<title>Integrated optical sensors for optoacoustic imaging of tissue</title>. , 2004, , .		0
81	Ultrasound modulated tomography using a CMOS modulated light lock-in pixel. , 2005, , .		0
82	Investigation of optimum wavelengths for oximetry. , 2009, , .		0
83	Raman spectroscopy and rotating orthogonal polarization imaging for non-destructive tracking of collagen deposition in tissue engineered skin and tendon. Proceedings of SPIE, 2009, , .	0.8	0
84	Non-invasive, label free, quantitative characterisation of live cells in monolayer culture. , 2011, , .		0