# John A Crowe

## List of Publications by Year
in descending order

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|---|---|---|---|
| 84 papers | 1,965 citations | 361296<br>20 h-index | 315616<br>38 g-index |
| 86 all docs | 86 docs citations | 86 times ranked | 2497 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Feasibility of a Novel ECG Electrode Placement Method in Newborn Infants. Neonatology, 2022, 119, 264-267. | 0.9 | 2 |
| 2 | Accurate neonatal heart rate monitoring using a new wireless, cap mounted device. Acta Paediatrica, International Journal of Paediatrics, 2021, 110, 72-78. | 0.7 | 18 |
| 3 | Smartphone monitoring of in-ambulance vibration and noise. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 428-436. | 1.0 | 8 |
| 4 | Growth Spectrum Complexity Dictates Aromatic Intensity in Coriander (Coriandrum sativum L.). Frontiers in Plant Science, 2020, 11, 462. | 1.7 | 8 |
| 5 | Clinical Scene Segmentation with Tiny Datasets. , 2019, , . | | 2 |
| 6 | Neonatal head and torso vibration exposure during inter-hospital transfer. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 99-113. | 1.0 | 29 |
| 7 | Anti-confocal assessment of middle ear inflammation. Biomedical Optics Express, 2017, 8, 230. | 1.5 | 4 |
| 8 | Anti-confocal versus confocal assessment of the middle ear simulated by Monte Carlo methods. Biomedical Optics Express, 2015, 6, 3820. | 1.5 | 3 |
| 9 | Medical device design for adolescent adherence and developmental goals: a case study of a cystic fibrosis physiotherapy device. Patient Preference and Adherence, 2014, 8, 301. | 0.8 | 10 |
| 10 | Not a minor problem: involving adolescents in medical device design research. Theoretical Issues in Ergonomics Science, 2014, 15, 181-192. | 1.0 | 9 |
| 11 | Light path-length distributions within the retina. Journal of Biomedical Optics, 2014, 19, 036008. | 1.4 | 11 |
| 12 | Forehead reflectance photoplethysmography to monitor heart rate: preliminary results from neonatal patients. Physiological Measurement, 2014, 35, 881-893. | 1.2 | 44 |
| 13 | A web-based tool for eliciting probability distributions from experts. Environmental Modelling and Software, 2014, 52, 1-4. | 1.9 | 128 |
| 14 | Snappy App: A Mobile Continuous Performance Test with Physical Activity Measurement for Assessing Attention Deficit Hyperactivity Disorder. Lecture Notes in Computer Science, 2014, , 363-373. | 1.0 | 8 |
| 15 | 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 |
| 16 | Laser Doppler Blood Flow Imaging Using a CMOS Imaging Sensor with On-Chip Signal Processing. Sensors, 2013, 13, 12632-12647. | 2.1 | 14 |
| 17 | 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 |
| 18 | Exploring the Potential for Automatic Extraction of Vegetation Phenological Metrics from Traffic Webcams. Remote Sensing, 2013, 5, 2200-2218. | 1.8 | 21 |

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|---|---------|----|-----------|
| 19 | Native Apps versus Web Apps: Which Is Best for Healthcare Applications?. Lecture Notes in Computer Science, 2013, , 189-196. | 1.0 | 9 |
| 20 | User Requirements for the Development of Smartphone Self-reporting Applications in Healthcare. Lecture Notes in Computer Science, 2013, , 36-45. | 1.0 | 7 |
| 21 | Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. Journal of Biomedical Optics, 2012, 17, 026014. | 1.4 | 5 |
| 22 | 64Ã—64 pixel smart sensor array for laser Doppler blood flow imaging. Optics Letters, 2012, 37, 3060. | 1.7 | 13 |
| 23 | Marked variation in newborn resuscitation practice: A national survey in the UK. Resuscitation, 2012, 83, 607-611. | 1.3 | 34 |
| 24 | Mobile psychiatry: towards improving the care for bipolar disorder. International Journal of Mental Health Systems, 2012, 6, 5. | 1.1 | 17 |
| 25 | An explanation for the effectiveness of the â€˜Draijerâ€™ algorithm for high speed laser Doppler perfusion imaging. Medical and Biological Engineering and Computing, 2012, 50, 211-214. | 1.6 | 2 |
| 26 | 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 |
| 27 | Timeâ€optimized Xâ€ray microâ€CT imaging of polymer based scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 360-367. | 1.6 | 6 |
| 28 | Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. , 2011, , . | | 1 |
| 29 | Low resource processing algorithms for laser Doppler blood flow imaging. Medical Engineering and Physics, 2011, 33, 720-729. | 0.8 | 7 |
| 30 | Validation of Human Whole Blood Oximetry, Using a Hyperspectral Fundus Camera with a Model Eye. , 2011, 52, 2851. | | 41 |
| 31 | Non-invasive, label free, quantitative characterisation of live cells in monolayer culture. , 2011, , . | | 0 |
| 32 | Surgeon opinion on new technologies in orthopaedic surgery. Journal of Medical Engineering and Technology, 2011, 35, 139-148. | 0.8 | 15 |
| 33 | Towards personalised ambient monitoring of mental health via mobile technologies. Technology and Health Care, 2010, 18, 275-284. | 0.5 | 36 |
| 34 | CMOS Sensors for Imaging Blood Flow. Optics and Photonics News, 2010, 21, 32. | 0.4 | 5 |
| 35 | Development of mobile psychiatry for bipolar disorder patients. , 2010, 2010, 5484-7. | | 7 |
| 36 | Investigation of optimum wavelengths for oximetry. , 2009, , . | | 0 |

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|---|---------|----|-----------|
| 37 | 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 |
| 38 | Experimental and theoretical evaluation of rotating orthogonal polarization imaging. Journal of Biomedical Optics, 2009, 14, 034006. | 1.4 | 12 |
| 39 | Time‐lapsed imaging for in‐process evaluation of supercritical fluid processing of tissue engineering scaffolds. Biotechnology Progress, 2009, 25, 1176-1183. | 1.3 | 6 |
| 40 | Generation and simulated imaging of pseudo-scaffolds to aid characterisation by X-ray micro CT. Biomaterials, 2009, 30, 4233-4246. | 5.7 | 3 |
| 41 | LIQUID CRYSTAL BASED ROTATING ORTHOGONAL POLARIZATION IMAGING SYSTEM. Journal of Innovative Optical Health Sciences, 2009, 02, 245-251. | 0.5 | 3 |
| 42 | Investigation of optimum wavelengths for oximetry. , 2009, , . | | 2 |
| 43 | Full field laser Doppler flowmetry with custom made CMOS sensors. Proceedings of SPIE, 2009, , . | 0.8 | 1 |
| 44 | Ultrasonic monitoring of foamed polymeric tissue scaffold fabrication. Journal of Materials Science: Materials in Medicine, 2008, 19, 3071-3080. | 1.7 | 14 |
| 45 | In situ monitoring of 3D in vitro cell aggregation using an optical imaging system. Biotechnology and Bioengineering, 2008, 100, 159-167. | 1.7 | 16 |
| 46 | Medical device development: The challenge for ergonomics. Applied Ergonomics, 2008, 39, 271-283. | 1.7 | 162 |
| 47 | Rotating orthogonal polarization imaging for tissue imaging. , 2008, , . | | 1 |
| 48 | Determination of the validity of spectrophotometric measurements based upon cumulants of the temporal point-spread function. Optics Letters, 2008, 33, 1339. | 1.7 | 1 |
| 49 | Rotating orthogonal polarization imaging. Optics Letters, 2008, 33, 1503. | 1.7 | 22 |
| 50 | Complementary metal-oxide-semiconductor imaging array with laser Doppler blood flow processing. Optical Engineering, 2008, 47, 104401. | 0.5 | 8 |
| 51 | Image-based characterization of foamed polymeric tissue scaffolds. Biomedical Materials (Bristol), 2008, 3, 015011. | 1.7 | 35 |
| 52 | 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 |
| 53 | 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 |
| 54 | Reduction of Error in Spectrophotometry of Scattering Media Using Polarization Techniques. Applied Spectroscopy, 2007, 61, 1379-1389. | 1.2 | 15 |

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|---|---------|-----|-----------|
| 55 | Meeting the needs of monitoring in tissue engineering. Regenerative Medicine, 2007, 2, 145-160. | 0.8 | 30 |
| 56 | Control of pore size and structure of tissue engineering scaffolds produced by supercritical fluid processing. , 2007, 14, 64-77. | | 200 |
| 57 | Capturing user requirements in medical device development: the role of ergonomics. Physiological Measurement, 2006, 27, R49-R62. | 1.2 | 108 |
| 58 | Comparison of Methods for Reducing the Effects of Scattering in Spectrophotometry. Applied Spectroscopy, 2006, 60, 1157-1166. | 1.2 | 15 |
| 59 | Ultrasound modulated tomography using a CMOS modulated light lock-in pixel. , 2005, , . | | 0 |
| 60 | Detrended fluctuation analysis: a suitable method for studying fetal heart rate variability?. Physiological Measurement, 2004, 25, 763-774. | 1.2 | 22 |
| 61 | Camera pixel for coherent detection of modulated light. Electronics Letters, 2004, 40, 1403. | 0.5 | 12 |
| 62 | Realâ€time physical data acquisition through a remote sensing platform on a polar lake. Limnology and Oceanography: Methods, 2004, 2, 191-201. | 1.0 | 12 |
| 63 | Does fractality in heart rate variability indicate the development of fetal neural processes?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 331, 225-230. | 0.9 | 11 |
| 64 | A polarized light imaging instrument for characterizing skin lesions. , 2004, , . | | 0 |
| 65 | <title>Integrated optical sensors for optoacoustic imaging of tissue</title>. , 2004, , . | | 0 |
| 66 | <title>Laser Doppler blood flowmetry with FPGA processing</title>. , 2004, , . | | 5 |
| 67 | Dependence of inertial measurements of distance on accelerometer noise. Measurement Science and Technology, 2002, 13, 1163-1172. | 1.4 | 75 |
| 68 | Menstrual symptometrics: a simple computer-aided method to quantify menstrual cycle disorders. Fertility and Sterility, 2002, 78, 96-101. | 0.5 | 37 |
| 69 | Monitoring the fetal heart non-invasively: a review of methods. Journal of Perinatal Medicine, 2001, 29, 408-16. | 0.6 | 144 |
| 70 | Selection of pulse oximetry equipment for ambulatory monitoring. Journal of Medical Engineering and Technology, 2001, 25, 17-24. | 0.8 | 8 |
| 71 | A method for foetal heart rate monitoring during magnetic resonance imaging using Doppler ultrasound. Physiological Measurement, 1999, 20, 363-368. | 1.2 | 9 |
| 72 | Data compression of fetal Doppler ultrasound audio signals using zero-crossings analysis. Medical Engineering and Physics, 1997, 19, 572-580. | 0.8 | 2 |

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|---|---------|----|-----------|
| 73 | Antenatal assessment using the FECG obtained via abdominal electrodes. Journal of Perinatal Medicine, 1996, 24, 43-53. | 0.6 | 20 |
| 74 | 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 |
| 75 | 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 |
| 76 | Sequential recording of the abdominal fetal electrocardiogram and magnetocardiogram. Physiological Measurement, 1995, 16, 43-47. | 1.2 | 20 |
| 77 | A Windows Application for Real-Time Fetal ECG Analysis. Journal of Biomedical Informatics, 1994, 27, 419-433. | 0.7 | 5 |
| 78 | The wavelength dependence of the photoplethysmogram and its implication to pulse oximetry. , 1992, , . | | 13 |
| 79 | Extraction of the abdominal fetal electrocardiogram for use as an indicator of antenatal fetal status. , 1992, , . | | 2 |
| 80 | Wavelet transform as a potential tool for ECG analysis and compression. Journal of Biomedical Engineering, 1992, 14, 268-272. | 0.7 | 80 |
| 81 | Fibre-optics and optical sensors in medicine. Medical and Biological Engineering and Computing, 1987, 25, 597-604. | 1.6 | 33 |
| 82 | Simulation of laser tomoscopy in a heterogeneous biological medium. Medical and Biological Engineering and Computing, 1986, 24, 407-414. | 1.6 | 19 |
| 83 | 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 |
| 84 | Foetal scalp mass spectrometer blood-gas transducer. Medical and Biological Engineering and Computing, 1982, 20, 375-382. | 1.6 | 11 |