# Adrian D C Chan

## List of Publications by Year
in descending order

| 45 papers | 2,019 citations | 687363<br>13 h-index | 752698<br>20 g-index |
|---|---|---|---|
| 45 all docs | 45 docs citations | 45 times ranked | 1872 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A Gaussian Mixture Model Based Classification Scheme for Myoelectric Control of Powered Upper Limb Prostheses. IEEE Transactions on Biomedical Engineering, 2005, 52, 1801-1811. | 4.2 | 558 |
| 2 | Wavelet Distance Measure for Person Identification Using Electrocardiograms. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 248-253. | 4.7 | 302 |
| 3 | Resolving the Limb Position Effect in Myoelectric Pattern Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 644-651. | 4.9 | 299 |
| 4 | Continuous Myoelectric Control for Powered Prostheses Using Hidden Markov Models. IEEE Transactions on Biomedical Engineering, 2005, 52, 121-124. | 4.2 | 288 |
| 5 | Surface Electromyographic Signals Using Dry Electrodes. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3259-3268. | 4.7 | 87 |
| 6 | Automated Biosignal Quality Analysis for Electromyography Using a One-Class Support Vector Machine. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2919-2930. | 4.7 | 82 |
| 7 | Concurrent validity of a wearable IMU for objective assessments of functional movement quality and control of the lumbar spine. Journal of Biomechanics, 2019, 97, 109356. | 2.1 | 48 |
| 8 | Fractal analysis of surface electromyography signals: A novel power spectrum-based method. Journal of Electromyography and Kinesiology, 2009, 19, 840-850. | 1.7 | 38 |
| 9 | A Lempel–Ziv complexity measure for muscle fatigue estimation. Journal of Electromyography and Kinesiology, 2011, 21, 236-241. | 1.7 | 33 |
| 10 | Multiexpert Automatic Speech Recognition Using Acoustic and Myoelectric Signals. IEEE Transactions on Biomedical Engineering, 2006, 53, 676-685. | 4.2 | 29 |
| 11 | Fatigue estimation using a novel multi-fractal detrended fluctuation analysis-based approach. Journal of Electromyography and Kinesiology, 2010, 20, 433-439. | 1.7 | 24 |
| 12 | Person Identification using Electrocardiograms. , 2006, , . | | 22 |
| 13 | Design of a gel-less two-electrode ECG monitor. , 2010, , . | | 22 |
| 14 | The Placental Distal Villous Hypoplasia Pattern: Interobserver Agreement and Automated Fractal Dimension as an Objective Metric. Pediatric and Developmental Pathology, 2016, 19, 31-36. | 1.0 | 21 |
| 15 | Identification of <i>Listeria</i> Species Using a Low-Cost Surface-Enhanced Raman Scattering System With Wavelet-Based Signal Processing. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3713-3722. | 4.7 | 20 |
| 16 | Electrode-skin impedance changes due to an externally applied force. , 2012, , . | | 20 |
| 17 | Classifying measured electrocardiogram signal quality using deep belief networks. , 2017, , . | | 19 |
| 18 | Nonintrusive load monitoring of electrical devices in health smart homes. , 2012, , . | | 18 |

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|---|---------|-----|-----------|
| 19 | Evaluation of wearable IMU performance for orientation estimation and motion tracking. , 2018, , . | | 14 |
| 20 | Restricted Isometry Property on Banded Block Toeplitz Matrices with Application to Multi-Channel Convolutive Source Separation. IEEE Transactions on Signal Processing, 2015, 63, 5665-5676. | 5.3 | 12 |
| 21 | Reduction of Stimulus Artifact in Somatosensory Evoked Potentials: Segmented Versus Subthreshold Training. IEEE Transactions on Biomedical Engineering, 2004, 51, 1187-1195. | 4.2 | 9 |
| 22 | Multiplicative multi-fractal modeling of electromyography signals for discerning neuropathic conditions. Journal of Electromyography and Kinesiology, 2010, 20, 1244-1248. | 1.7 | 9 |
| 23 | Wearable EMG analysis for Rehabilitation (WEAR) - Surface electromyography in clinical gait analysis. , 2011, , . | | 5 |
| 24 | Realtime phase-amplitude coupling analysis of micro electrode recorded brain signals. PLoS ONE, 2018, 13, e0204260. | 2.5 | 5 |
| 25 | A physical action potential generator: design, implementation and evaluation. Frontiers in Neuroscience, 2015, 9, 371. | 2.8 | 4 |
| 26 | Postoperative real-time electrocardiography monitoring detects myocardial ischemia: a case report. Canadian Journal of Anaesthesia, 2017, 64, 411-415. | 1.6 | 4 |
| 27 | Detection of Abnormal Heartbeats in Compressed Electrocardiograms. , 2018, , . | | 4 |
| 28 | Automatic Placental Distal Villous Hypoplasia Scoring using a Deep Convolutional Neural Network Regression Model. , 2022, , . | | 4 |
| 29 | Integrative learning through the design of an electrocardiogram acquisition system. , 2011, 2011, 3624-7. | | 3 |
| 30 | Non-obtrusive electrocardiogram system for the Smart Rollator. , 2012, , . | | 3 |
| 31 | Fully automated estimation of the mean linear intercept in histopathology images of mouse lung tissue. Journal of Medical Imaging, 2021, 8, 027501. | 1.5 | 3 |
| 32 | Simulating Motion Artifact Using an Autoregressive Model for Research in Biomedical Signal Quality Analysis. , 2020, 2020, 940-943. | | 2 |
| 33 | Evaluation of interpolation methods for EMG arrays. , 2022, , . | | 2 |
| 34 | Blink and saccade detection from forehead EEG. , 2022, , . | | 2 |
| 35 | Application of Velocity Filters to Somatosensory Evoked Potential Measurements for Removal of Stimulus Artifact. , 2006, 2006, 6213-6. | | 1 |
| 36 | Effects of Force and Joint Angle on Fractal Parameters of the Myoelectric Signal. , 2006, 2006, 3423-6. | | 1 |

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|---|---------|----|-----------|
| 37 | Heart rate reliability for the Smart Rollator. , 2010, , . | | 1 |
| 38 | Compression of surface myoelectric signals using MP3 encoding. , 2011, 2011, 5012-5. | | 1 |
| 39 | Sound Software Development for Engineering Simulations. , 2006, , . | | 0 |
| 40 | Plate analyzer - a yeast colony size measurement system. , 2010, , . | | 0 |
| 41 | TSEA: An Open Source Python-Based Annotation Tool for Time Series Data. , 2021, , . | | 0 |
| 42 | Application of Velocity Filters to Somatosensory Evoked Potential Measurements for Removal of Stimulus Artifact. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , . | 0.5 | 0 |
| 43 | Effects of Force and Joint Angle on Fractal Parameters of the Myoelectric Signal. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , . | 0.5 | 0 |
| 44 | An Automated Tool to Assess Air Space Size in Histopathology Images of Lung Tissue. , 2022, , . | | 0 |
| 45 | Detection of Atrial Fibrillation in Compressively Sensed Electrocardiogram for Remote Monitoring. Frontiers in Electronics, 0, 3, . | 3.2 | 0 |