

# Xi Long

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83  
papers

1,096  
citations

17  
h-index

30  
g-index

90  
ext. papers

1,470  
ext. citations

3.3  
avg, IF

4.68  
L-index

#	Paper	IF	Citations
83	Sleep stage classification with ECG and respiratory effort. <i>Physiological Measurement</i> , <b>2015</b> , 36, 2027-40	2.9	100
82	Single-accelerometer-based daily physical activity classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 6107-10	0.9	90
81	Wearable Sensing and Telehealth Technology with Potential Applications in the Coronavirus Pandemic. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2021</b> , 14, 48-70	6.4	86
80	Sleep and wake classification with actigraphy and respiratory effort using dynamic warping. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1272-84	7.2	66
79	Analyzing respiratory effort amplitude for automated sleep stage classification. <i>Biomedical Signal Processing and Control</i> , <b>2014</b> , 14, 197-205	4.9	53
78	Unobtrusive sleep state measurements in preterm infants - A review. <i>Sleep Medicine Reviews</i> , <b>2017</b> , 32, 109-122	10.2	51
77	Sleep stage classification from heart-rate variability using long short-term memory neural networks. <i>Scientific Reports</i> , <b>2019</b> , 9, 14149	4.9	44
76	Cardiorespiratory Sleep Stage Detection Using Conditional Random Fields. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2017</b> , 21, 956-966	7.2	32
75	EEG analysis of seizure patterns using visibility graphs for detection of generalized seizures. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 290, 85-94	3	30
74	Systolic blood pressure estimation using PPG and ECG during physical exercise. <i>Physiological Measurement</i> , <b>2016</b> , 37, 2154-2169	2.9	28
73	Measuring dissimilarity between respiratory effort signals based on uniform scaling for sleep staging. <i>Physiological Measurement</i> , <b>2014</b> , 35, 2529-42	2.9	28
72	Spectral Boundary Adaptation on Heart Rate Variability for Sleep and Wake Classification. <i>International Journal on Artificial Intelligence Tools</i> , <b>2014</b> , 23, 1460002	0.9	27
71	Multi-modal and multi-vendor retina image registration. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 410-422	3.5	23
70	Automatic sleep staging using heart rate variability, body movements, and recurrent neural networks in a sleep disordered population. <i>Sleep</i> , <b>2020</b> , 43,	1.1	21
69	A comparison of probabilistic classifiers for sleep stage classification. <i>Physiological Measurement</i> , <b>2018</b> , 39, 055001	2.9	21
68	LED power consumption in joint illumination and communication system. <i>Optics Express</i> , <b>2017</b> , 25, 18990-19003	3.5	21
67	A novel low-complexity post-processing algorithm for precise QRS localization. <i>SpringerPlus</i> , <b>2014</b> , 3, 376		18

66	Time delay between cardiac and brain activity during sleep transitions. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 143702	3.4	17
65	Modeling cardiorespiratory interaction during human sleep with complex networks. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 203701	3.4	16
64	Seizure pattern-specific epileptic epoch detection in patients with intellectual disability. <i>Biomedical Signal Processing and Control</i> , <b>2017</b> , 35, 38-49	4.9	14
63	Human gender classification: a review. <i>International Journal of Biometrics</i> , <b>2016</b> , 8, 275	0.4	14
62	Unobtrusive assessment of neonatal sleep state based on heart rate variability retrieved from electrocardiography used for regular patient monitoring. <i>Early Human Development</i> , <b>2017</b> , 113, 104-113	2.2	14
61	Recurrence quantification analysis across sleep stages. <i>Biomedical Signal Processing and Control</i> , <b>2015</b> , 20, 107-116	4.9	13
60	Detection of Nocturnal Slow Wave Sleep Based on Cardiorespiratory Activity in Healthy Adults. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2017</b> , 21, 123-133	7.2	11
59	Estimating actigraphy from motion artifacts in ECG and respiratory effort signals. <i>Physiological Measurement</i> , <b>2016</b> , 37, 67-82	2.9	11
58	Hybrid Optical Unobtrusive Blood Pressure Measurements. <i>Sensors</i> , <b>2017</b> , 17,	3.8	11
57	Time-frequency analysis of heart rate variability for sleep and wake classification <b>2012</b> ,		11
56	A Ballistographic Approach for Continuous and Non-Obtrusive Monitoring of Movement in Neonates. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2018</b> , 6, 2700809	3	11
55	Finger and forehead photoplethysmography-derived pulse-pressure variation and the benefits of baseline correction. <i>Journal of Clinical Monitoring and Computing</i> , <b>2019</b> , 33, 65-75	2	10
54	Deep learning approach for ECG-based automatic sleep state classification in preterm infants. <i>Biomedical Signal Processing and Control</i> , <b>2020</b> , 56, 101663	4.9	10
53	Video-Based Actigraphy for Monitoring Wake and Sleep in Healthy Infants: A Laboratory Study. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9
52	Effects of Between- and Within-Subject Variability on Autonomic Cardiorespiratory Activity during Sleep and Their Limitations on Sleep Staging: A Multilevel Analysis. <i>Computational Intelligence and Neuroscience</i> , <b>2015</b> , 2015, 583620	3	9
51	A deep transfer learning approach for wearable sleep stage classification with photoplethysmography. <i>Npj Digital Medicine</i> , <b>2021</b> , 4, 135	15.7	9
50	EEG-Based Neonatal Sleep-Wake Classification Using Multilayer Perceptron Neural Network. <i>IEEE Access</i> , <b>2020</b> , 8, 183025-183034	3.5	8
49	Speckle Tracking Echocardiography in Hypertensive Pregnancy Disorders: A Systematic Review. <i>Obstetrical and Gynecological Survey</i> , <b>2020</b> , 75, 497-509	2.4	8

48	Automated preterm infant sleep staging using capacitive electrocardiography. <i>Physiological Measurement</i> , <b>2019</b> , 40, 055003	2.9	7
47	Respiration amplitude analysis for REM and NREM sleep classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 5017-20	0.9	7
46	A broadband method of quantifying phase synchronization for discriminating seizure EEG signals. <i>Biomedical Signal Processing and Control</i> , <b>2019</b> , 52, 371-383	4.9	7
45	Can pre-trained convolutional neural networks be directly used as a feature extractor for video-based neonatal sleep and wake classification?. <i>BMC Research Notes</i> , <b>2020</b> , 13, 507	2.3	6
44	Direct application of an ECG-based sleep staging algorithm on reflective photoplethysmography data decreases performance. <i>BMC Research Notes</i> , <b>2020</b> , 13, 513	2.3	6
43	Radar-based sleep stage classification in children undergoing polysomnography: a pilot-study. <i>Sleep Medicine</i> , <b>2021</b> , 82, 1-8	4.6	6
42	Respiration Monitoring for Premature Neonates in NICU. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5246	2.6	6
41	Video-based discomfort detection for infants. <i>Machine Vision and Applications</i> , <b>2019</b> , 30, 933-944	2.8	6
40	Cardiorespiratory coupling in preterm infants. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 202-213	3.7	6
39	A Hybrid DCNN-SVM Model for Classifying Neonatal Sleep and Wake States Based on Facial Expressions in Video. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 1441-1449	7.2	6
38	An efficient heuristic method for infant in/out of bed detection using video-derived motion estimates. <i>Biomedical Physics and Engineering Express</i> , <b>2018</b> , 4, 035035	1.5	6
37	. <i>IEEE Access</i> , <b>2020</b> , 8, 59100-59113	3.5	5
36	Human gender classification: a review. <i>International Journal of Biometrics</i> , <b>2016</b> , 8, 275	0.4	5
35	It is All in the Wrist: Wearable Sleep Staging in a Clinical Population versus Reference Polysomnography. <i>Nature and Science of Sleep</i> , <b>2021</b> , 13, 885-897	3.6	5
34	Improving sleep/wake classification with recurrence quantification analysis features. <i>Biomedical Signal Processing and Control</i> , <b>2019</b> , 49, 78-86	4.9	5
33	On algorithms for calculating arterial pulse pressure variation during major surgery. <i>Physiological Measurement</i> , <b>2017</b> , 38, 2101-2121	2.9	4
32	Using dynamic time warping for sleep and wake discrimination <b>2012</b> ,		4
31	Audio-based snore detection using deep neural networks. <i>Computer Methods and Programs in Biomedicine</i> , <b>2021</b> , 200, 105917	6.9	4

30	The value of cardiorespiratory parameters for sleep state classification in preterm infants: A systematic review. <i>Sleep Medicine Reviews</i> , <b>2021</b> , 58, 101462	10.2	4
29	False alarms reduction in non-convulsive status epilepticus detection via continuous EEG analysis. <i>Physiological Measurement</i> , <b>2020</b> , 41, 055009	2.9	3
28	Model stability of COVID-19 mortality prediction with biomarkers		3
27	Freezing of gait detection in Parkinson's disease via multimodal analysis of EEG and accelerometer signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2020</b> , 2020, 847-850	0.9	3
26	Predictive Monitoring of Critical Cardiorespiratory Alarms in Neonates Under Intensive Care. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2019</b> , 7, 2700310	3	3
25	EEG-based seizure detection in patients with intellectual disability: Which EEG and clinical factors are important?. <i>Biomedical Signal Processing and Control</i> , <b>2019</b> , 49, 404-418	4.9	3
24	Optimisation of clinical workflow and monitor settings safely reduces alarms in the NICU. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2021</b> , 110, 1141-1150	3.1	3
23	Does the architectural layout of a NICU affect alarm pressure? A comparative clinical audit of a single-family room and an open bay area NICU using a retrospective study design. <i>BMJ Open</i> , <b>2018</b> , 8, e022813	3	3
22	Actigraphy-based sleep/wake detection for insomniacs <b>2017</b> ,		2
21	Reading Analysis for Barcode Scanner With Interference from LED-Based Lighting. <i>IEEE Access</i> , <b>2019</b> , 7, 96787-96798	3.5	2
20	Automatic detection of overnight deep sleep based on heart rate variability: a preliminary study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 50-3	0.9	2
19	On the impact of arousals on the performance of sleep and wake classification using actigraphy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 6760-3	0.9	2
18	Characterizing cardiorespiratory interaction in preterm infants across sleep states using visibility graph analysis. <i>Journal of Applied Physiology</i> , <b>2021</b> , 130, 1015-1024	3.7	2
17	Singular Value Decomposition for Removal of Cardiac Interference from Trunk Electromyogram. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
16	A Two-Layer Ensemble Method for Detecting Epileptic Seizures Using a Self-Annotation Bracelet with Motor Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	2
15	Improving sleep/wake detection via boundary adaptation for respiratory spectral features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 374-7	0.9	1
14	Towards tailored physical activity health intervention: Predicting dropout participants. <i>Health and Technology</i> , <b>2014</b> , 4, 273-287	2.1	1
13	Sleep apnea detection using time-delayed heart rate variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 7679-82	0.9	1

12	A behavioral approach to annotating sleep in infants: Building on the classic framework.. <i>Physiological Reports</i> , <b>2022</b> , 10, e15178	2.6	1
11	An Investigation into Audio Features and DTW Algorithms for Infant Cry Classification <b>2019</b> ,		1
10	Convolutional Neural Networks for Audio-Based Continuous Infant Cry Monitoring at Home. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	1
9	Home-based Detection of Epileptic Seizures Using a Bracelet with Motor Sensors <b>2021</b> ,		1
8	Video-based actigraphy is an effective contact-free method of assessing sleep in preterm infants. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2021</b> , 110, 1815-1816	3.1	1
7	Body Motion Detection in Neonates Based on Motion Artifacts in Physiological Signals from a Clinical Patient Monitor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021-2021</i> , 111-112	0.9	1
6	Sensing and computing for smart healthcare. <i>Journal of Ambient Intelligence and Smart Environments</i> , <b>2022</b> , 14, 3-4	2.2	0
5	Camera-based heart rate estimation for hospitalized newborns in the presence of motion artifacts. <i>BioMedical Engineering OnLine</i> , <b>2021</b> , 20, 122	4.1	0
4	Estimation of Heart Rate Directly from ECG Spectrogram in Neonate Intensive Care Units. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020</i> , 2020, 320-323	0.9	0
3	Pitfalls in EEG Analysis in Patients With Nonconvulsive Status Epilepticus: A Preliminary Study. <i>Clinical EEG and Neuroscience</i> , <b>2021</b> , 15500594211050492	2.3	
2	Seizure detection using dynamic warping for patients with intellectual disability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016</i> , 2016, 1010-1013	0.9	
1	Influence of Spectral Peaks on EMG Parameter Estimation for Vibration-Exercise Analysis. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 14141-14147	4	