

Hasan Al-Nashash

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.

100
papers

849
citations

15
h-index

25
g-index

124
ext. papers

1,082
ext. citations

2.6
avg, IF

4.32
L-index

#	Paper	IF	Citations
100	Detection of life-threatening cardiac arrhythmias using the wavelet transformation. <i>Medical and Biological Engineering and Computing</i> , 1997 , 35, 626-32	3.1	98
99	A novel technique for the extraction of fetal ECG using polynomial networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 1148-52	5	64
98	New insights into image processing of cortical blood flow monitors using laser speckle imaging. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 833-42	11.7	48
97	Wavelet entropy for subband segmentation of EEG during injury and recovery. <i>Annals of Biomedical Engineering</i> , 2003 , 31, 653-8	4.7	38
96	EEG and Eye Tracking Demonstrate Vigilance Enhancement with Challenge Integration. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 273	3.3	38
95	A dynamic Fourier series for the compression of ECG using FFT and adaptive coefficient estimation. <i>Medical Engineering and Physics</i> , 1995 , 17, 197-203	2.4	29
94	Spinal cord injury detection and monitoring using spectral coherence. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1971-9	5	26
93	EEG signal modeling using adaptive Markov process amplitude. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 744-51	5	25
92	Cognitive workload modulation through degraded visual stimuli: a single-trial EEG study. <i>Journal of Neural Engineering</i> , 2015 , 12, 046020	5	21
91	Monitoring of global cerebral ischemia using wavelet entropy rate of change. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 2119-22	5	20
90	. <i>IEEE Access</i> , 2019 , 7, 143550-143562	3.5	19
89	Brain Connectivity Analysis Under Semantic Vigilance and Enhanced Mental States. <i>Brain Sciences</i> , 2019 , 9,	3.4	19
88	Vigilance Decrement and Enhancement Techniques: A Review. <i>Brain Sciences</i> , 2019 , 9,	3.4	18
87	Prediction of PTZ-induced seizures using wavelet-based residual entropy of cortical and subcortical field potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 640-8	5	18
86	Thermal model of MOSFET with SELBOX structure. <i>Journal of Computational Electronics</i> , 2013 , 12, 803-811	1.8	15
85	ECG data compression using adaptive Fourier coefficients estimation. <i>Medical Engineering and Physics</i> , 1994 , 16, 62-6	2.4	14
84	A Review on Mental Stress Assessment Methods Using EEG Signals. <i>Sensors</i> , 2021 , 21,	3.8	14

83	. <i>IEEE Sensors Journal</i> , 2017 , 17, 7019-7028	4	13
82	Cardiac arrhythmia classification using neural networks. <i>Technology and Health Care</i> , 2000 , 8, 363-372	1.1	13
81	Surface myoelectric signal classification for prostheses control. <i>Journal of Medical Engineering and Technology</i> , 2005 , 29, 203-7	1.8	12
80	Noninvasive beat-to-beat detection of ventricular late potentials. <i>Medical and Biological Engineering and Computing</i> , 1989 , 27, 64-8	3.1	12
79	Beat-to-beat detection of His-Purkinje system signals using adaptive filters. <i>Medical and Biological Engineering and Computing</i> , 1988 , 26, 117-25	3.1	11
78	. <i>IEEE Access</i> , 2020 , 8, 115941-115956	3.5	11
77	ECG response of the human body subjected to vibrations. <i>Journal of Medical Engineering and Technology</i> , 1996 , 20, 2-10	1.8	10
76	Transfer-Function-Based Calibration of Sparse EEG Systems for Brain Source Localization. <i>IEEE Sensors Journal</i> , 2015 , 15, 1504-1514	4	8
75	The effect of anaesthesia on somatosensory evoked potential measurement in a rat model. <i>Laboratory Animals</i> , 2016 , 50, 63-6	2.6	8
74	Role of multisensory stimuli in vigilance enhancement- a single trial event related potential 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> , 2017 , 2017, 2446-2449	0.9	8
73	Analysis of Kink Reduction in SOI MOSFET Using Selective Back Oxide Structure. <i>Active and Passive Electronic Components</i> , 2012 , 2012, 1-9	0.3	8
72	Fetal ECG extraction from a single abdominal ECG signal using SVD and polynomial classifiers 2008 ,		8
71	Wavelet entropy method for EEG analysis: application to global brain injury		8
70	Natural Progression of Spinal Cord Transection Injury and Reorganization of Neural Pathways. <i>Journal of Neurotrauma</i> , 2016 , 33, 2191-2201	5.4	8
69	Internet of things based multi-sensor patient fall detection system. <i>Healthcare Technology Letters</i> , 2019 , 6, 132-137	1.9	8
68	Automatic Parametrization of Somatosensory Evoked Potentials With Chirp Modeling. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 981-992	4.8	7
67	Prolonged Local Hypothermia Has No Long-Term Adverse Effect on the Spinal Cord. <i>Therapeutic Hypothermia and Temperature Management</i> , 2015 , 5, 152-62	1.3	7
66	Cognitive workload estimation due to vague visual stimuli using saccadic eye movements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2993-6	0.9	7

65	Histogram based quantification of spinal cord injury level using somatosensory evoked potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 4942-5</i>	0.9	7
64	Characterization of transection spinal cord injuries by monitoring somatosensory evoked potentials and motor behavior. <i>Brain Research Bulletin, 2020, 156, 150-163</i>	3.9	7
63	Novel Modeling of Somatosensory Evoked Potentials for the Assessment of Spinal Cord Injury. <i>IEEE Transactions on Biomedical Engineering, 2018, 65, 511-520</i>	5	6
62	Measuring vigilance decrement using computer vision assisted eye tracking in dynamic naturalistic environments. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 2478-2481</i>	0.9	6
61	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1079-1087</i>	1.7	5
60	2018,		5
59	Improving electrical engineering education at the American University of Sharjah through continuous assessment. <i>European Journal of Engineering Education, 2009, 34, 15-28</i>	1.5	5
58	Fetal ECG Signal Enhancement using Polynomial Classifiers and Wavelet Denoising 2008,		5
57	Quantitative monitoring of bone healing process using ultrasound. <i>Journal of the Franklin Institute, 2006, 343, 495-500</i>	4	5
56	The analytic bilinear discrimination of single-trial EEG signals in rapid image triage. <i>PLoS ONE, 2014, 9, e100097</i>	3.7	5
55	. <i>IEEE Access, 2021, 9, 22955-22970</i>	3.5	5
54	Effect of isoflurane on somatosensory evoked potentials in a rat model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4286-9</i>	0.9	4
53	Quantification of Spinal Cord Injury Level Using Somatosensory Evoked Potentials. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010,</i>		4
52	Assessment of retinopathy severity using digital fundus images 2011,		4
51	Detection and assessment of spinal cord injury using spectral coherence. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1426-9</i>		4
50	Statistical mapping of speckle autocorrelation for visualization of hyperaemic responses to cortical stimulation. <i>Annals of Biomedical Engineering, 2006, 34, 1107-18</i>	4.7	4
49	. <i>IEEE Access, 2020, 8, 191080-191089</i>	3.5	4
48	Fabrication of titanium dioxide nanomaterial for implantable highly flexible composite bioelectrode for biosensing applications. <i>Chemosphere, 2021, 273, 129680</i>	8.4	4

47	Extracting fetal ECG from a single maternal abdominal record 2015,		3
46	Cortical Source Localization and Signal Estimation Without Exact Knowledge of the Leadfield Matrix. <i>IEEE Sensors Journal</i> , 2017 , 17, 450-458	4	3
45	ERP signal estimation from single trial EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2989-92	0.9	3
44	Design of low frequency highpass filter using pseudo resistors 2011,		3
43	Towards an assessment of bone fracture healing using pulsed mode ultrasound. <i>Technology and Health Care</i> , 2011 , 19, 261-9	1.1	3
42	Spinal cord injury evaluation using morphological difference of somatosensory evoked potentials 2011,		3
41	Frequency response of MOS devices with SELBOX structure 2012,		3
40	ECG data compression using Hebbian neural networks. <i>Journal of Medical Engineering and Technology</i> , 1996 , 20, 211-8	1.8	3
39	Brain Source Localization Using Stochastic Gradient Descent. <i>IEEE Sensors Journal</i> , 2021 , 21, 8375-8383	4	3
38	Assessment of Spinal Cord Injury via Sparse Modeling of Somatosensory Evoked Potential Signals 2017,		2
37	Medical equipment efficient failure management in IoT environment 2018,		2
36	Static power characteristics of selective buried oxide CMOS devices. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2460	1	2
35	Eye tracking and EEG synchronization to analyze microsaccades during a workload task. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7994-7	0.9	2
34	Studies and minimization of kink effect in SOI MOSFET devices with SELBOX structure 2008,		2
33	Novel near-field microwave bone healing monitoring using open-ended rectangular waveguides 2006,		2
32	Spectral subtraction and cepstral distance for enhancing EEG entropy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 2751-4		2
31	Asymmetry of Regional Phase Synchrony Cortical Networks Under Cognitive Alertness and Vigilance Decrement States. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 2378-2387	4.8	2
30	Calibration of Low Density EEG Sensor Arrays for Brain Source Localization. <i>Lecture Notes in Computer Science</i> , 2012 , 331-338	0.9	2

29	Trading baseline with forelimbs somatosensory evoked potential for longitudinal analysis in thoracic transection spinal cord injury. <i>Journal of Neuroscience Methods</i> , 2020 , 343, 108858	3	2
28	Generalised correlation index for quantifying signal morphological similarity. <i>Electronics Letters</i> , 2016 , 52, 1832-1834	1.1	2
27	Assessment of Bone Healing Using Ultrasound 2012 , 283-297		2
26	Modeling and simulation of static power dissipation in CMOS with SELBOX structure 2017 ,		1
25	Group projects in foundation electrical engineering courses: Do they help, harm or make no difference to the students learning experience?. <i>International Journal of Electrical Engineering and Education</i> , 2016 , 53, 305-313	0.6	1
24	Visual aid for Optic Nerve Hypoplasia patients 2014 ,		1
23	Circuit model for SelBox MOSFET 2012 ,		1
22	Effect of vibrations with two different amplitudes on the ECG. <i>Journal of Medical Engineering and Technology</i> , 1997 , 21, 135-40	1.8	1
21	The effect of the whitening matrix in determining the final solution in blind source separation of biomedical signals		1
20	2020 ,		1
19	Using Variations of Somatosensory Evoked Potentials to Quantify Spinal Cord Injury Level. <i>Engineering</i> , 2013 , 05, 99-102	0.4	1
18	Minimization of self-heating in SOI MOSFET devices with SELBOX structure 2016 ,		1
17	Effect of thoracic spinal cord injury on forelimb somatosensory evoked potential. <i>Brain Research Bulletin</i> , 2021 , 173, 22-27	3.9	1
16	Stress management using fNIRS and binaural beats stimulation. <i>Biomedical Optics Express</i> , 2022 , 13, 3553.5		1
15	Highly Flexible Polyaniline-Based Implantable Electrode Materials for Neural Sensing/Stimulation Applications. <i>Electronic Materials</i> , 2021 , 2, 413-427	0.8	0
14	Comparative analysis of functional assessment for contusion and transection models of spinal cord injury. <i>Spinal Cord</i> , 2021 , 59, 1206-1209	2.7	0
13	Three-dimensional model for the simulation of the HPS electrogram. <i>Bio-Medical Materials and Engineering</i> , 1997 , 7, 401-10	1	0
12	TCAD Simulation and Analysis of Selective Buried Oxide MOSFET Dynamic Power. <i>Journal of Low Power Electronics and Applications</i> , 2019 , 9, 29	1.7	

- 11 Vigilance Differentiation from EEG Complexity Attributes. *Lecture Notes in Computer Science*, **2015**, 199-206
- 10 Brain source localization in the presence of leadfield perturbations. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4551-4 0.9
- 9 Introducing undergraduate students to simulation of semiconductor doping techniques. *Computers and Electrical Engineering*, **2009**, 35, 567-577 4.3
- 8 Quantification of the bone healing process using information of B-Mode ultrasound image. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 4442-5 0.9
- 7 Sudden infant death syndrome detector. *Technology and Health Care*, **1997**, 5, 461-469 1.1
- 6 Monitoring of global cerebral ischemia using instantaneous phase variation plots. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 4182-5 0.9
- 5 New method for estimating explosive anaerobic leg power. *Journal of Biomedical Engineering*, **1993**, 15, 430-4
- 4 An Intraoral Camera for Supporting Assistive Devices. *IEEE Sensors Journal*, **2021**, 21, 8553-8563 4
- 3 Sudden infant death syndrome detector. *Technology and Health Care*, **1997**, 5, 461-9 1.1
- 2 Cardiac arrhythmia classification using neural networks. *Technology and Health Care*, **2000**, 8, 363-72 1.1
- 1 Vigilance Assessment and Enhancement **2022**, 1-24