Cheng-Chi Tai

List of Publications by Year
in descending order

68 papers	417 citations	1040056 9 h-index	940533 16 g-index
68 all docs	68 docs citations	68 times ranked	372 citing authors

#	Article	IF	Citations
1	Robust Image-Based Water-Level Estimation Using Single-Camera Monitoring. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	7
2	Cross-Channel Dynamic Weighting RPCA: A De-Noising Algorithm for Multi-Channel Arterial Pulse Signal. Applied Sciences (Switzerland), 2022, 12, 2931.	2.5	3
3	Liver tumor ablation enhancement by induction-heating system with bitter-like deep magnetic field coil. Review of Scientific Instruments, 2022, 93, 054107.	1.3	0
4	ANFIS-GA system for three-dimensional pulse image of normal and string-like pulse in Chinese medicine using an improved contour analysis method. European Journal of Integrative Medicine, 2021, 42, 101301.	1.7	11
5	Automatic water-level measurement system for confined-space applications. Review of Scientific Instruments, 2021, 92, 085001.	1.3	5
6	Dispersed partial shading effect and reduced power loss in a PV array using a complementary SuDoKu puzzle topology. Energy Conversion and Management, 2021, 246, 114675.	9.2	15
7	Wireless potential difference electrocardiogram constituted by two electrode-pairs wearing comfort. Journal of Instrumentation, 2020, 15, P08011-P08011.	1.2	4
8	Effects of Flexible Induction Coil Pitch on the Heating Performance of Thermotherapy Needles. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8983-8991.	4.7	4
9	A modified self-tuning fuzzy logic temperature controller for metal induction heating. Review of Scientific Instruments, 2020, 91, 064905.	1.3	3
10	Interference Reduction by Using RPCA and Variational Mode Decomposition in 3D Pulse Images. , 2019, , .		2
11	Compensated active noise cancellation earphone for audiometric screening tests in noisy environments. International Journal of Audiology, 2019, 58, 747-753.	1.7	3
12	De-noising of 3D Pulse Images by Channel-Weighted Robust Principal Component Analysis. , 2019, , .		2
13	Fourier Series Analysis for Novel Spatiotemporal Pulse Waves: Normal, Taut, and Slippery Pulse Images. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-9.	1.2	4
14	Identification of Edge Recombination from CIGS Solar Cells. , 2019, , .		0
15	Two-electrode-pair electrocardiogram with no common ground between two pairs. Review of Scientific Instruments, 2019, 90, 114703.	1.3	3
16	Development and Testing of a Prototype for 3D Radial Pulse Image Measurement and Compatible With 1D Pulse Wave Analysis. IEEE Access, 2019, 7, 182846-182859.	4.2	9
17	Benefits of Compression Amplification in Telephone Bluetooth-Assistive Listening Devices for People with Hearing Loss. Journal of the American Academy of Audiology, 2018, 30, 187-197.	0.7	0
18	Analyzing the audio signals of degenerative arthritis with an electronic stethoscope. Review of Scientific Instruments, 2018, 89, 085111.	1.3	4

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19	Magnetic induction of hyperthermia by a modified self-learning fuzzy temperature controller. Review of Scientific Instruments, 2017, 88, 074702.	1.3	4
20	Enhancement of wireless power transmission with foreign-object detection considerations. , 2017, , .		23
21	Non-invasive multiwavelength photoplethysmography under low partial pressure of oxygen. Journal of Medical Engineering and Technology, 2016, 40, 315-324.	1.4	0
22	Real-Time Prediction of Temperature for Electromagnetic Heating Therapy in Deep-Seated Tissue. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	3
23	Design of a heart rate controller for treadmill exercise using a recurrent fuzzy neural network. Computer Methods and Programs in Biomedicine, 2016, 128, 27-39.	4.7	7
24	DESIGN OF A RING-TYPE REFLECTION PULSE OXIMETER WITH A PARABOLIC REFLECTOR. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550007.	0.6	1
25	Design of wireless power transfer for dynamic power transmission with position-detection mechanism. , 2015, , .		5
26	THE EFFECTS OF EMISSION LIGHT PULSE WIDTH ON NON INVASIVE OPTICAL PLETHYSMOGRAPHIC DEVICES. Instrumentation Science and Technology, 2014, 42, 522-531.	1.8	0
27	Deep-Magnetic-Field Generator Using Flexible Laminated Copper for Thermotherapy Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
28	Thermotherapy Induction Heating Apparatus With New Magnetic-Wrapped Coil Design. IEEE Transactions on Industrial Electronics, 2014, 61, 2592-2600.	7.9	8
29	Identification of Partial Discharge Location Using Probabilistic Neural Networks and the Fuzzy C-means Clustering Approach. Electric Power Components and Systems, 2014, 42, 60-69.	1.8	8
30	Cast-resin dry-type transformer partial discharge signal analysis using spectral correlated empirical mode decomposition method. , 2013, , .		0
31	A calculation for complex eye-blink duration by regression. , 2013, , .		1
32	AN IMPROVED AND PORTABLE EYE-BLINK DURATION DETECTION SYSTEM TO WARN OF DRIVER FATIGUE. Instrumentation Science and Technology, 2013, 41, 429-444.	1.8	30
33	Subjective mood estimation using power energy of EEG frequency band. , 2013, , .		2
34	The application of partial discharge detector and electro-acoustic signals analysis methods for power cables monitoring. , 2012, , .		4
35	Thickness and Conductivity Analysis of Molybdenum Thin Film in CIGS Solar Cells Using Resonant Electromagnetic Testing Method. IEEE Transactions on Magnetics, 2012, 48, 347-350.	2.1	9
36	Detection and location of partial discharge in cast-resin dry-type transformers using a waveguide and a new acoustic emission sensor pair design. Journal of Zhejiang University: Science C, 2011, 12, 345-350.	0.7	4

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37	An operating procedure for the detection, identification, and location of partial discharge in cast-resin dry-type transformers. , 2011, , .		1
38	Partial discharge signal extracting using the empirical mode decomposition with wavelet transform. , 2011, , .		16
39	Multiphysics Modeling and Analysis of the Photoinductive Imaging Effect for Crack Detection. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 425-432.	4.7	6
40	Frequency divider design using the combination of transistors and passive devices. , 2009, , .		0
41	Multiple-Valued Memory Design by Standard BiCMOS Technique. , 2009, , .		0
42	Standard BiCMOS Implementation of a Two-Peak Negative Differential Resistance Circuit with High and Adjustable Peak-to-Valley Current Ratio. IEICE Transactions on Electronics, 2009, E92-C, 635-638.	0.6	3
43	A Novel Multiphysics Sensing Method Based on Thermal and EC Techniques and Its Application for Crack Inspection. , 2008, , .		1
44	GIS partial discharge examination and classification from the on-line measurements. , 2008, , .		1
45	Partial discharge signal analysis using HHT for cast-resin dry-type transformer. , 2008, , .		3
46	Selectively multiple-valued memory design using negative differential resistance circuits implemented by standard SiGe BiCMOS process. , 2008, , .		0
47	The transmission characteristics of sound wave in power cable. , 2008, , .		1
48	Data Analysis Using Hilbert-Huang Transform for Partial Discharge in Low Voltage Motors. , 2007, , .		1
49	A COMPACT HALF-BRIDGE INDUCTION HEATING SYSTEM FOR MAGNETIC NANOPARTICLE THERMOTHERAPY APPLICATIONS. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 27-35.	0.6	4
50	A simple partial discharge detector for low-voltage rotating electrical machines. , 2007, , .		5
51	Nondestructive Analysis of Interconnection in Two-Die BGA Using TDR. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 400-405.	4.7	31
52	A New Wireless-Type Physiological Signal Measuring System Using a PDA and the Bluetooth Technology. , 2006, , .		16
53	Design of AND and NAND Logic Gate Using NDR-BASED Circuit Suitable for CMOS Process. , 2006, , .		4
54	The Design of a Portable ECG Measurement Instrument Based on a GBA Embedded System. , 2006, , .		2

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55	Electrical Characterization of FCBGA Package Based on Measurement Approach for High-speed SOC Applications. Journal of Microelectronics and Electronic Packaging, 2006, 3, 216-225.	0.7	0
56	An Improved Peak Quantification Algorithm for Automatic Heart Rate Measurements. , 2005, 2005, 6623-6.		4
57	A NEW WIRELESS-TYPE PHYSIOLOGICAL SIGNAL MEASURING SYSTEM USING A PDA AND THE BLUETOOTH TECHNOLOGY. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 229-235.	0.6	30
58	A wireless bluetooth device applied to a non-contact type breathing monitoring system. , 2004, , .		3
59	ADAPTIVE BEAMFORMER WITH COMBINATION OF SUBBAND FILTERING FOR HEARING-AID SYSTEMS BACKGROUND NOISE REDUCTION. Biomedical Engineering - Applications, Basis and Communications, 2002, 14, 55-66.	0.6	0
60	The interaction of pulsed eddy current with metal surface crack for various coils. AIP Conference Proceedings, 2002, , .	0.4	0
61	Pulsed eddy current for metal surface cracks inspection: Theory and experiment. AIP Conference Proceedings, 2002, , .	0.4	1
62	Modeling the surface condition of ferromagnetic metal by the swept-frequency eddy current method. IEEE Transactions on Magnetics, 2002, 38, 205-210.	2.1	9
63	Pulsed eddy current for deep metal surface cracks inspection. AIP Conference Proceedings, 2001, , .	0.4	1
64	Bolt-Hole Corner Crack Inspection Using the Photoinductive Imaging Method. Journal of Nondestructive Evaluation, 2000, 19, 81-93.	2.4	7
65	Characterization of coatings on magnetic metal using the swept-frequency eddy current method. Review of Scientific Instruments, 2000, 71, 3161-3167.	1.3	39
66	Failure analysis of BGA package by a TDR approach. , 0, , .		6
67	The information home appliance control system- a bluetooth universal type remote controller. , 0, , .		14
68	The implementation of a bluetooth-based wireless phonocardio-diagnosis system. , 0, , .		7