Chang Kuo-Chi

List of Publications by Year
in descending order

62 papers	480 citations	1163117 8 h-index	752698 20 g-index
72 all docs	72 docs citations	72 times ranked	168 citing authors

#	ARTICLE	IF	CITATIONS
1	Arduino Line Follower Using Fuzzy Logic Control. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 200-210.	0.7	2
2	Big Data Technology in Intelligent Distribution Network:ÂDemand and Applications. Advances in Intelligent Systems and Computing, 2021, , 385-393.	0.6	0
3	Study of Smart Decorating Machine on Cake Patten. Smart Innovation, Systems and Technologies, 2021, , 148-159.	0.6	0
4	Study of Assessing the Stability of Rwandaâ€™s Power System from Big Data Based on Power Generation. Smart Innovation, Systems and Technologies, 2021, , 57-65.	0.6	0
5	Improved Parallel Bat Algorithm Based on a Communication Strategy. Advances in Intelligent Systems and Computing, 2021, , 911-918.	0.6	0
6	Distribution Network Fault Location Based on Intelligent Algorithm Research. Advances in Intelligent Systems and Computing, 2021, , 184-192.	0.6	3
7	Study on IC Process Parameter Control of MOVCD Using PID Algorithm. Smart Innovation, Systems and Technologies, 2021, , 195-204.	0.6	0
8	Low-Cost Based on Smart Trash Can Bag Changing System. Advances in Intelligent Systems and Computing, 2021, , 499-506.	0.6	0
9	A New Optimization Based on Parallelizing Hybrid PSOGSA Algorithm. Smart Innovation, Systems and Technologies, 2021, , 168-178.	0.6	0
10	Study of Advanced Low-Cost Smart Prepaid Electricity Meter Using Arduino and GSM. Smart Innovation, Systems and Technologies, 2021, , 160-168.	0.6	0
11	Algorithm Optimization of Short-Term Load Forecasting Model Based on Least Square Support Vector Machine. Advances in Intelligent Systems and Computing, 2021, , 279-287.	0.6	1
12	Fuzhou PM2.5 Prediction and Related Factors Analysis. Smart Innovation, Systems and Technologies, 2021, , 219-227.	0.6	1
13	Solar PV Power Forecasting Approach Based on Hybrid Deep Neural Network. Advances in Intelligent Systems and Computing, 2021, , 125-133.	0.6	5
14	Study of Iterative Learning Control Algorithm in Tourism Management IoT Platform Application. Advances in Intelligent Systems and Computing, 2021, , 205-213.	0.6	4
15	Threshold Image Segmentation for Non-uniform Illumination Using Otsu Optimization Approach. Advances in Intelligent Systems and Computing, 2021, , 997-1004.	0.6	0
16	Study of the Degree of Automation of High-Tech Smart Factory: Taiwan 12â€•Semiconductor Factory Case Study. Advances in Intelligent Systems and Computing, 2021, , 514-524.	0.6	0
17	Design of Combined Cycle Gas Turbine and IoT in Production Electricity from KIVU Lake Methane Gas. Smart Innovation, Systems and Technologies, 2021, , 41-49.	0.6	0
18	Study of Multi-unit UAV in the Optimal Global Scheduling of High Voltage Tower Management Application. Advances in Intelligent Systems and Computing, 2021, , 699-707.	0.6	4

#	ARTICLE	IF	CITATIONS
19	Convolutional Neural Network for Fire Video Image Detection in the Thermal Power Plant. Advances in Intelligent Systems and Computing, 2021, , 112-121.	0.6	1
20	Study of 2D SubMarine Tracking with Complete Worked Out Example Based on Kalman Filter. Smart Innovation, Systems and Technologies, 2021, , 178-187.	0.6	0
21	Modeling and Simulation for Battery Energy Storage System Participating in Power System Frequency Modulation Based on Power System Analysis Software Package. Smart Innovation, Systems and Technologies, 2021, , 1-8.	0.6	0
22	A Survey of Common IOT Communication Protocols and IOT Smart-X Applications of 5G Cellular. Smart Innovation, Systems and Technologies, 2021, , 114-122.	0.6	0
23	Optimal Power Generation Output Considering Cascading Failure. Smart Innovation, Systems and Technologies, 2021, , 106-113.	0.6	0
24	Optimal Operation of Reservoir Power Generation Based on Improved Grey Wolf Algorithm. Advances in Intelligent Systems and Computing, 2021, , 987-996.	0.6	0
25	Research on Pre-view Method of Safety Level of Cascading Trip for Power Grid. Advances in Intelligent Systems and Computing, 2021, , 855-862.	0.6	0
26	Barriers and Challenges to Smart Grid Technology Deployment in the Kingdom of Saudi Arabia (KSA). Advances in Intelligent Systems and Computing, 2021, , 193-201.	0.6	0
27	Interleaved DC/DC Boost Converter for Hybrid Electric and Electrical Vehicles. Advances in Intelligent Systems and Computing, 2021, , 708-716.	0.6	2
28	Study of Thermal Power Plantâ€™s Intelligent Fire Detection and Suppression System Via Wireless Sensor Network and Carbon Capture and Storage Technology. Smart Innovation, Systems and Technologies, 2021, , 123-132.	0.6	0
29	Compact Sine Cosine Algorithm applied in vehicle routing problem with time window. Telecommunication Systems, 2021, 78, 609-628.	2.5	5
30	Standalone and Minigrid-Connected Solar Energy Systems for Rural Application in Rwanda: An In Situ Study. International Journal of Photoenergy, 2021, 2021, 1-22.	2.5	19
31	Study of the Intelligent Algorithm of Hilbert-Huang Transform in Advanced Power System. Advances in Intelligent Systems and Computing, 2021, , 577-585.	0.6	0
32	Study of Reduction of Inrush Current on a DC Series Motor with a Low-Cost Soft Start System for Advanced Process Tools. Advances in Intelligent Systems and Computing, 2021, , 586-597.	0.6	1
33	Temperature Control and Improvement of Mocvd in 5G Chip Process Based on Quatre Algorithm. , 2021, , .		0
34	Machine Vision Welding Defect Detection Based on FPGA. , 2021, , .		1
35	Advanced 5G system chip MOCVD process parameter control and simulation based on BP neural network and Smith predictor. , 2020, , .		7
36	Shortest Distance Maze Solving Robot. , 2020, , .		3

#	Article	IF	Citations
37	Study of Low Cost and High Efficiency Intelligent Dual-Axis Solar Panel System. , 2020, , .		8
38	Study of Smart Monitoring and Protection of Remote Transformers and Transmission Lines using GSM Technology. , 2020, , .		2
39	Study on IoT and Big Data Analysis of 12â€•7Ânm Advanced Furnace Process Exhaust Gas Leakage. , 2020, , .		0
40	Agent-based middleware framework using distributed CPS for improving resource utilization in smart city. Future Generation Computer Systems, 2020, 108, 445-453.	7.5	71
41	Energy Saving Technology of 5G Base Station Based on Internet of Things Collaborative Control. IEEE Access, 2020, 8, 32935-32946.	4.2	112
42	Study on IoT and Big Data Analysis of Furnace Process Exhaust Gas Leakage. Smart Innovation, Systems and Technologies, 2020, , 41-49.	0.6	3
43	Study on Hazardous Scenario Analysis of High-Tech Facilities and Emergency Response Mechanism of Science and Technology Parks Based on IoT. Advances in Intelligent Systems and Computing, 2020, , 191-199.	0.6	7
44	Study on Health Protection Behavior Based on the Big Data of High-Tech Factory Production Line. Advances in Intelligent Systems and Computing, 2020, , 571-578.	0.6	6
45	Research on Intelligent Frequency Control of Permanent Magnet Synchronous Motor. , 2020, , .		0
46	Home Appliances Control Using Android and Arduino via Bluetooth and GSM Control. Advances in Intelligent Systems and Computing, 2020, , 819-827.	0.6	6
47	Ergonomics Management of High-Tech Fab Based on Visual Recognition-Case Study for Etching Process PM. , 2020, , .		0
48	Study of Circuit Evolution to Repair Design Flaws in FPGA Edge Computing Chips. , 2020, , .		4
49	Study Of Fpga-Based Edge Computing In Semiconductor Manufacturing Safety Management Application. , 2020, , .		4
50	Study Of Dsp (Tms320f2812) Chip For Advanced Photovoltaic Power Generation Maximum Power Point Tracking Control System. , 2020, , .		0
51	Study of Green Supply Chain Management Platform Performance for Intelligent Hightech Factory Based on Advanced CSR Governance. , 2020, , .		0
52	Numerical Optimization of the Energy Consumption for Wireless Sensor Networks Based on an Improved Ant Colony Algorithm. IEEE Access, 2019, 7, 105562-105571.	4.2	80
53	Study of Improvement and Verification for Fan Wall of Network Rack Server using Six Sigma. , 2019, , .		3
54	Study of Inherently Safer Design Strategy Application for IC Process Power Supply System. , 2019, , .		7

#	Article	IF	Citations
55	Study of the High-tech Process Mechanical Integrity and Electrical Safety. , 2019, , .		7
56	Study on the Inherently Safer Design Strategy of Semiconductor Process and the Improvement of Facility Safety Management Efficiency. , 2018, , .		1
57	Study of wafer cleaning process safety using Inherently Safer Design Strategies. , 2018, , .		6
58	Study of high-tech process furnace using inherently safer design strategies (IV). Advanced NAND device design and thin film process adjustment. Journal of Loss Prevention in the Process Industries, 2016, 40, 378-395.	3.3	17
59	Study of chemical supply system of high-tech process using inherently safer design strategies in Taiwan. Journal of Loss Prevention in the Process Industries, 2014, 29, 72-84.	3.3	16
60	Study of high-tech process furnace using inherently safer design strategies (I) temperature distribution model and process effect. Journal of Loss Prevention in the Process Industries, 2013, 26, 1198-1211.	3.3	27
61	Study of high-tech process furnace using inherently safer design strategies (II). Deposited film thickness model. Journal of Loss Prevention in the Process Industries, 2013, 26, 225-235.	3.3	26
62	Application of Advanced Framework Technology in Smart Cities to Improve Resource Utilization. , 0, , .		0