

# Shih-Lun Chen

## List of Publications by Year in descending order

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65  
papers

905  
citations

516710

16  
h-index

501196

28  
g-index

65  
all docs

65  
docs citations

65  
times ranked

714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Body Sensor Network With Adaptive Low-Power Design for Biometrics and Healthcare Applications. IEEE Systems Journal, 2009, 3, 398-409.	4.6	131
2	A Power-Efficient Adaptive Fuzzy Resolution Control System for Wireless Body Sensor Networks. IEEE Access, 2015, 3, 743-751.	4.2	60
3	An Efficient Micro Control Unit with a Reconfigurable Filter Design for Wireless Body Sensor Networks (WBSNs). Sensors, 2012, 12, 16211-16227.	3.8	53
4	An Asynchronous Multi-Sensor Micro Control Unit for Wireless Body Sensor Networks (WBSNs). Sensors, 2011, 11, 7022-7036.	3.8	49
5	A Power-Efficient Mixed-Signal Smart ADC Design With Adaptive Resolution and Variable Sampling Rate for Low-Power Applications. IEEE Sensors Journal, 2017, 17, 3461-3469.	4.7	38
6	A Low-Cost High-Quality Adaptive Scalar for Real-Time Multimedia Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1600-1611.	8.3	36
7	VLSI Implementation of an Adaptive Edge-Enhanced Image Scalar for Real-Time Multimedia Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1510-1522.	8.3	35
8	A Wireless Body Sensor Network System for Healthcare Monitoring Application. , 2007, , .		34
9	VLSI Implementation of a Cost-Efficient Near-Lossless CFA Image Compressor for Wireless Capsule Endoscopy. IEEE Access, 2016, 4, 10235-10245.	4.2	33
10	VLSI Implementation of a Cost-Efficient Micro Control Unit With an Asymmetric Encryption for Wireless Body Sensor Networks. IEEE Access, 2017, 5, 4077-4086.	4.2	31
11	Caries and Restoration Detection Using Bitewing Film Based on Transfer Learning with CNNs. Sensors, 2021, 21, 4613.	3.8	31
12	VLSI Implementation of a Low-Cost High-Quality Image Scaling Processor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 31-35.	3.0	29
13	VLSI architecture of lossless ECG compression design based on fuzzy decision and optimisation method for wearable devices. Electronics Letters, 2015, 51, 1409-1411.	1.0	25
14	A Low-Power High-Data-Transmission Multi-Lead ECG Acquisition Sensor System. Sensors, 2019, 19, 4996.	3.8	25
15	Time Multiplexed VLSI Architecture for Real-Time Barrel Distortion Correction in Video-Endoscopic Images. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1612-1621.	8.3	23
16	Detection of Dental Apical Lesions Using CNNs on Periapical Radiograph. Sensors, 2021, 21, 7049.	3.8	19
17	Teeth Detection Algorithm and Teeth Condition Classification Based on Convolutional Neural Networks for Dental Panoramic Radiographs. Journal of Medical Imaging and Health Informatics, 2018, 8, 507-515.	0.3	18
18	Fully Pipelined Low-Cost and High-Quality Color Demosaicking VLSI Design for Real-Time Video Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 588-592.	3.0	15

#	ARTICLE	IF	CITATIONS
19	A Novel Adaptive Local Dimming Backlight Control Chip Design Based on Gaussian Distribution for Liquid Crystal Displays. <i>Journal of Display Technology</i> , 2016, 12, 1494-1505.	1.2	14
20	VLSI implementation of an ultra-low-cost and low-power image compressor for wireless camera networks. <i>Journal of Real-Time Image Processing</i> , 2018, 14, 803-812.	3.5	14
21	Detection of Myocardial Infarction Using ECG and Multi-Scale Feature Concatenate. <i>Sensors</i> , 2021, 21, 1906.	3.8	13
22	White-Light Photosensors Based on Ag Nanoparticle-Reduced Graphene Oxide Hybrid Materials. <i>Micromachines</i> , 2018, 9, 655.	2.9	12
23	VLSI Implementation of an Efficient Lossless EEG Compression Design for Wireless Body Area Network. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1474.	2.5	12
24	A Convolutional Neural Network Approach for Dental Panoramic Radiographs Classification. <i>Journal of Medical Imaging and Health Informatics</i> , 2017, 7, 1693-1704.	0.3	12
25	A Cost and Power Efficient Image Compressor VLSI Design With Fuzzy Decision and Block Partition for Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2017, 17, 4999-5007.	4.7	10
26	A Classification and Prediction Hybrid Model Construction with the IQPSO-SVM Algorithm for Atrial Fibrillation Arrhythmia. <i>Sensors</i> , 2021, 21, 5222.	3.8	10
27	A Power-Efficient Multiband Planar USB Dongle Antenna for Wireless Sensor Networks. <i>Sensors</i> , 2019, 19, 2568.	3.8	9
28	Low-Power 2.4-GHz Transceiver in Wireless Sensor Network for Bio-medical Applications. , 2007, , .		8
29	Lossless CFA Image Compression Chip Design for Wireless Capsule Endoscopy. <i>IEEE Access</i> , 2019, 7, 107047-107057.	4.2	8
30	Camphor-Based CVD Bilayer Graphene/Si Heterostructures for Self-Powered and Broadband Photodetection. <i>Micromachines</i> , 2020, 11, 812.	2.9	8
31	Low-Power, Large-Area and High-Performance CdSe Quantum Dots/Reduced Graphene Oxide Photodetectors. <i>IEEE Access</i> , 2020, 8, 95855-95863.	4.2	8
32	Tooth Position Determination by Automatic Cutting and Marking of Dental Panoramic X-ray Film in Medical Image Processing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11904.	2.5	8
33	Three-Heartbeat Multilead ECG Recognition Method for Arrhythmia Classification. <i>IEEE Access</i> , 2022, 10, 44046-44061.	4.2	8
34	An efficient image processing methodology based on fuzzy decision for dental shade matching. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 1133-1142.	1.4	7
35	A variable control system for wireless body sensor network. , 2008, , .		6
36	Fully pipelinedCORDIC-based inverse kinematic FPGA design for biped robots. <i>Electronics Letters</i> , 2015, 51, 1241-1243.	1.0	6

#	ARTICLE	IF	CITATIONS
37	Well-aligned Vertically Oriented ZnO Nanorod Arrays and their Application in Inverted Small Molecule Solar Cells. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
38	A High-Accuracy and Power-Efficient Self-Optimizing Wireless Water Level Monitoring IoT Device for Smart City. <i>Sensors</i> , 2021, 21, 1936.	3.8	4
39	Efficient and Accurate CORDIC Pipelined Architecture Chip Design Based on Binomial Approximation for Biped Robot. <i>Electronics (Switzerland)</i> , 2022, 11, 1701.	3.1	4
40	VLSI implementation of a lossless ECG encoder design with fuzzy decision and two-stage Huffman coding for wireless body sensor network. , 2013, , .		3
41	Ultra-low-cost colour demosaicking VLSI design for real-time video applications. <i>Electronics Letters</i> , 2014, 50, 1585-1587.	1.0	3
42	VLSI Implementation of an Adaptive Block Partition Decision Object-Detection Design for Real-Time 4K2K Video Display. <i>Journal of Display Technology</i> , 2016, 12, 1570-1580.	1.2	3
43	A Hardware-Oriented Contrast Enhancement Algorithm for Real-Time Applications. , 2018, , .		3
44	Flexible Signals and Images Lossless Compression Chip Design for IoT and Industry 4.0. , 2018, , .		3
45	Low Cost AIP Design in 5G Flexible Antenna Phase Array System Application. <i>Micromachines</i> , 2020, 11, 851.	2.9	3
46	A Novel Low-Power Synchronous Preamble Data Line Chip Design for Oscillator Control Interface. <i>Electronics (Switzerland)</i> , 2020, 9, 1509.	3.1	3
47	Dual glucose/cholesterol meter applications based on FPGA platform. , 2013, , .		2
48	Hole filling using multiple frames and iterative texture synthesis with illumination compensation. <i>Multimedia Tools and Applications</i> , 2016, 75, 1899-1921.	3.9	2
49	VLSI Implementation of a Cost-Efficient Loeffler DCT Algorithm with Recursive CORDIC for DCT-Based Encoder. <i>Electronics (Switzerland)</i> , 2021, 10, 862.	3.1	2
50	The Uses of a Dual-Band Corrugated Circularly Polarized Horn Antenna for 5G Systems. <i>Micromachines</i> , 2022, 13, 289.	2.9	2
51	Eye detection in CSBS-DP evaluation video. , 2016, , .		1
52	Block-based content adaptive backlight controller VLSI design for local dimming LCDs. , 2016, , .		1
53	Design and Implementation of Real-Time Localization Algorithms Based on FPGA for Positioning and Tracking. , 2019, , .		1
54	Real-time Image Contrast Enhancement VLSI Design for Intelligent Autonomous Vehicles. <i>Journal of Imaging Science and Technology</i> , 2020, 64, 010504-1-010504-11.	0.5	1

#	ARTICLE	IF	CITATIONS
55	A Hardware-Oriented Image Compression Algorithm Based on BTC and YEF Color Space. , 2021, , .		1
56	Bio-medical Image Analysis for Diagnosis and Healthcare Detection System of Skin Cancer. , 2021, , .		1
57	Case-Based Instruction of Digital Integrated Circuit Design Courses for Non-major Undergraduates. , 2013, , .		0
58	A reconfigurable control system design for wireless body sensor network. , 2014, , .		0
59	Novel gray-level mapping of image-quality power control technique for organic light emitting diode displays. , 2016, , .		0
60	An efficient micro control unit VLSI design for wearable electronics and sensor networks. , 2016, , .		0
61	Automated knowledge discovery and semantic annotation for network and web services. International Journal of Distributed Sensor Networks, 2016, 12, 155014771665792.	2.2	0
62	Switching error concealment algorithm based on optimal decisions for performance and complexity. Multimedia Tools and Applications, 2016, 75, 11199-11219.	3.9	0
63	Sparsity analysis of endoscopy images. , 2017, , .		0
64	Enhanced performance of reduced graphene oxide photodetectors by Ag nanoparticles. , 2017, , .		0
65	Partially green small molecule solar cells. , 2019, , .		0