

# Cheng Siong Chin

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

1,285  
citations

331670

21  
h-index

377865

34  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold start investigation of fuel cell vehicles with coolant preheating strategy. Applied Thermal Engineering, 2022, 201, 117816.	6.0	35
2	Multi-Timescale Wavelet Scattering With Genetic Algorithm Feature Selection for Acoustic Scene Classification. IEEE Access, 2022, 10, 25987-26001.	4.2	4
3	Study of Hybrid Propulsion Systems for Lower Emissions and Fuel Saving on Merchant Ship during Voyage. Journal of Marine Science and Engineering, 2022, 10, 393.	2.6	6
4	Noise modeling of offshore platform using progressive normalized distance from worst-case error for optimal neuron numbers in deep belief network. Soft Computing, 2021, 25, 495-515.	3.6	1
5	Semi-Supervised NMF-CNN for Sound Event Detection. IEEE Access, 2021, 9, 130529-130542.	4.2	9
6	Review of Autonomous Intelligent Vehicles for Urban Driving and Parking. Electronics (Switzerland), 2021, 10, 1021.	3.1	19
7	Adaptive Fixed-Time Control of Strict-Feedback High-Order Nonlinear Systems. Entropy, 2021, 23, 963.	2.2	4
8	Adaptive Fixed-Time Neural Network Tracking Control of Nonlinear Interconnected Systems. Entropy, 2021, 23, 1152.	2.2	8
9	Multi-Branch Convolutional Macaron net for Sound Event Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2972-2985.	5.8	6
10	Deploying battery technology for marine vessel electrification. IEEE Potentials, 2021, 40, 24-33.	0.3	1
11	Detecting Sound Events Using Convolutional Macaron Net With Pseudo Strong Labels. , 2021, , .		1
12	A Comprehensive Review of Driver Behavior Analysis Utilizing Smartphones. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4444-4475.	8.0	66
13	Enhancing performance of photovoltaic panel by cold plate design with guided channels. IET Renewable Power Generation, 2020, 14, 1606-1617.	3.1	7
14	Benchmark Models of Control System Design for Remotely Operated Vehicles. , 2020, , .		4
15	A Comprehensive Review of Polyphonic Sound Event Detection. IEEE Access, 2020, 8, 103339-103373.	4.2	31
16	Intelligent Marine Robotics Modelling, Simulation and Applications. Journal of Marine Science and Engineering, 2020, 8, 383.	2.6	0
17	Comprehensive electro-thermal model of 26650 lithium battery for discharge cycle under parametric and temperature variations. Journal of Energy Storage, 2020, 28, 101222.	8.1	25
18	Modelling and control of vehicle integrated thermal management system of PEM fuel cell vehicle. Energy, 2020, 199, 117495.	8.8	81

#	ARTICLE	IF	CITATIONS
19	Sliding-Mode Control of STENA DRILLMAX Drillship with Environmental Disturbances for Dynamic Positioning. Lecture Notes in Electrical Engineering, 2020, , 99-111.	0.4	0
20	Control Systems Design of Remotely Operated Vehicle. , 2020, , 75-137.		0
21	Numerical study on the effects of battery heating in cold climate. Journal of Energy Storage, 2019, 26, 100969.	8.1	34
22	Unsupervised Bayesian Nonparametric Approach with Incremental Similarity Tracking of Unlabeled Water Demand Time Series for Anomaly Detection. Water (Switzerland), 2019, 11, 2066.	2.7	1
23	Extracting Typhoon Disaster Information from VGI Based on Machine Learning. Journal of Marine Science and Engineering, 2019, 7, 318.	2.6	14
24	System design of underwater battery power system for marine and offshore industry. Journal of Energy Storage, 2019, 21, 724-740.	8.1	19
25	Acoustics vs. psychoacoustics: An objective and subjective analysis of classroom acoustics in Singapore. Noise Control Engineering Journal, 2019, 67, 80-97.	0.3	3
26	Near-field vibro-acoustic transfer function prediction of small close fit enclosure with multiple rotating components. Applied Acoustics, 2019, 149, 129-142.	3.3	1
27	Acoustic Scene Classification Using Bilinear Pooling on Time-liked and Frequency-liked Convolution Neural Network. , 2019, , .		3
28	Study on impact of noise annoyance from highway traffic in Singapore City. Proceedings of Meetings on Acoustics, 2019, , .	0.3	5
29	Customizable Battery Power System for Marine and Offshore Applications: Trends, Configurations, and Challenges. IEEE Electrification Magazine, 2019, 7, 46-55.	1.8	19
30	Analytical modelling of structure-borne sound transmission through I-junction using Chebyshev-Ritz method on cascaded rectangular plate-cavity system. Applied Acoustics, 2019, 143, 171-182.	3.3	8
31	Robust Modeling, Sliding-Mode Controller, and Simulation of an Underactuated ROV Under Parametric Uncertainties and Disturbances. Journal of Marine Science and Application, 2019, 18, 213-227.	1.7	13
32	Modified multiple generalized regression neural network models using fuzzy C-means with principal component analysis for noise prediction of offshore platform. Neural Computing and Applications, 2019, 31, 1127-1142.	5.6	6
33	Health stages diagnostics of underwater thruster using sound features with imbalanced dataset. Neural Computing and Applications, 2019, 31, 5767-5782.	5.6	15
34	Robust Genetic Algorithm and Fuzzy Inference Mechanism Embedded in a Sliding-Mode Controller for an Uncertain Underwater Robot. IEEE/ASME Transactions on Mechatronics, 2018, 23, 655-666.	5.8	60
35	Experimental validation of open-frame ROV model for virtual reality simulation and control. Journal of Marine Science and Technology, 2018, 23, 267-287.	2.9	23
36	Investigation of parameter effects on the performance of high-temperature PEM fuel cell. International Journal of Hydrogen Energy, 2018, 43, 23441-23449.	7.1	60

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37	Review of Current Technologies and Proposed Intelligent Methodologies for Water Distributed Network Leakage Detection. IEEE Access, 2018, 6, 78846-78867.	4.2	107
38	Unity3D Serious Game Engine for High Fidelity Virtual Reality Training of Remotely-Operated Vehicle Pilot. , 2018, , .		5
39	Unsupervised Learning for Monaural Source Separation Using Maximizationâ€“Minimization Algorithm with Timeâ€“Frequency Deconvolution. Sensors, 2018, 18, 1371.	3.8	8
40	Nonlinear Temperature-Dependent State Model of Cylindrical LiFePO4 Battery for Open-Circuit Voltage, Terminal Voltage and State-of-Charge Estimation with Extended Kalman Filter. Energies, 2018, 11, 2467.	3.1	23
41	Intelligent Autonomous Transport Systems Design and Simulation. Journal of Advanced Transportation, 2018, 2018, 1-2.	1.7	3
42	Adaptive online sequential extreme learning machine for frequency-dependent noise data on offshore oil rig. Engineering Applications of Artificial Intelligence, 2018, 74, 226-241.	8.1	6
43	State-of-Charge Estimation of Battery Pack under Varying Ambient Temperature Using an Adaptive Sequential Extreme Learning Machine. Energies, 2018, 11, 711.	3.1	29
44	Proposed framework for multi-level extreme machine learning for underwater thruster's fault classification using YIN fundamental frequency estimator and pitch sound. , 2017, , .		1
45	Intelligent Image Recognition System for Marine Fouling Using Softmax Transfer Learning and Deep Convolutional Neural Networks. Complexity, 2017, 2017, 1-9.	1.6	30
46	State-of-Charge Estimation and Active Cell Pack Balancing Design of Lithium Battery Power System for Smart Electric Vehicle. Journal of Advanced Transportation, 2017, 2017, 1-14.	1.7	27
47	Design and Implementation of a Smart Lithium-Ion Battery System with Real-Time Fault Diagnosis Capability for Electric Vehicles. Energies, 2017, 10, 1503.	3.1	37
48	Integrated Equivalent Circuit and Thermal Model for Simulation of Temperature-Dependent LiFePO4 Battery in Actual Embedded Application. Energies, 2017, 10, 85.	3.1	48
49	An Acoustic Annoyance Study of Hard Disk Drive for Laptop. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	2
50	Robust Design of Docking Hoop for Recovery of Autonomous Underwater Vehicle with Experimental Results. Robotics, 2015, 4, 492-515.	3.5	9
51	Modelling and simulation of a 12-cell battery power system with fault control for underwater robot. , 2015, , .		1
52	Analysis of Acoustic Models and Statistical Energy Analysis with Direct Field for Machinery Room on Offshore Platform. Acta Acustica United With Acustica, 2015, 101, 1234-1244.	0.8	3
53	Virtual reality simulation of fuzzy-logic control during underwater dynamic positioning. Journal of Marine Science and Application, 2015, 14, 14-24.	1.7	13
54	Lithium-ion battery modeling and validation for smart power system. , 2015, , .		7

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55	A multi-hop microprocessor based prototype system for remote vibration and image monitoring of underwater offshore platform. , 2015, , .		0
56	An adaptable walking-skid for seabed ROV under strong current disturbance. Journal of Marine Science and Application, 2014, 13, 305-314.	1.7	10
57	Modeling and testing of hydrodynamic damping model for a complex-shaped remotely-operated vehicle for control. Journal of Marine Science and Application, 2012, 11, 150-163.	1.7	39
58	Supervisory cascaded controller design: experiment test on a remotely operated vehicle. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 584-603.	2.1	16
59	Rapid modeling and control systems prototyping of a marine robotic vehicle with model uncertainties using xPC Target system. Ocean Engineering, 2011, 38, 2128-2141.	4.3	36
60	Design, modeling and testing of a standalone single axis active solar tracker using MATLAB/Simulink. Renewable Energy, 2011, 36, 3075-3090.	8.9	118
61	Vertical stream curricula integration of problem-based learning using an autonomous vacuum robot in a mechatronics course. European Journal of Engineering Education, 2011, 36, 485-504.	2.3	5
62	Robust and decoupled cascaded control system of underwater robotic vehicle for stabilization and pipeline tracking. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2008, 222, 261-278.	1.0	17
63	Design of Thrusters Configuration and Thrust Allocation Control for a Remotely Operated Vehicle. , 2006, , .		8
64	A Cascaded Nonlinear Heading Control with Thrust Allocation: An Application on an Underactuated Remotely Operated Vehicle. , 2006, , .		4
65	Software for modelling and simulation of a Remotely-Operated Vehicle (ROV). International Journal of Simulation Modelling, 2006, 5, 114-125.	1.3	22
66	Control of the ALSTOM gasifier benchmark problem using H2 methodology. Journal of Process Control, 2003, 13, 759-768.	3.3	24
67	brittle-ductile TRANSITION IN DIAMOND CUTTING OF SILICON SINGLE CRYSTALS. Materials and Manufacturing Processes, 2001, 16, 447-460.	4.7	26
68	Self-Compensated Heterodyne Laser Interferometer. International Journal of Advanced Manufacturing Technology, 2000, 16, 217-219.	3.0	9