Cheng Siong Chin

List of Publications by Year
in descending order

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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	Design, modeling and testing of a standalone single axis active solar tracker using MATLAB/Simulink. Renewable Energy, 2011, 36, 3075-3090.	8.9	118
2	Review of Current Technologies and Proposed Intelligent Methodologies for Water Distributed Network Leakage Detection. IEEE Access, 2018, 6, 78846-78867.	4.2	107
3	Modelling and control of vehicle integrated thermal management system of PEM fuel cell vehicle. Energy, 2020, 199, 117495.	8.8	81
4	A Comprehensive Review of Driver Behavior Analysis Utilizing Smartphones. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4444-4475.	8.0	66
5	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
6	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
7	Integrated Equivalent Circuit and Thermal Model for Simulation of Temperature-Dependent LiFePO4 Battery in Actual Embedded Application. Energies, 2017, 10, 85.	3.1	48
8	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
9	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
10	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
11	Cold start investigation of fuel cell vehicles with coolant preheating strategy. Applied Thermal Engineering, 2022, 201, 117816.	6.0	35
12	Numerical study on the effects of battery heating in cold climate. Journal of Energy Storage, 2019, 26, 100969.	8.1	34
13	A Comprehensive Review of Polyphonic Sound Event Detection. IEEE Access, 2020, 8, 103339-103373.	4.2	31
14	Intelligent Image Recognition System for Marine Fouling Using Softmax Transfer Learning and Deep Convolutional Neural Networks. Complexity, 2017, 2017, 1-9.	1.6	30
15	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
16	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
17	brittle-ductile TRANSITION IN DIAMOND CUTTING OF SILICON SINGLE CRYSTALS. Materials and Manufacturing Processes, 2001, 16, 447-460.	4.7	26
18	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

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19	Control of the ALSTOM gasifier benchmark problem using H2 methodology. Journal of Process Control, 2003, 13, 759-768.	3.3	24
20	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
21	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
22	Software for modelling and simulation of a Remotely-Operated Vehicle (ROV). International Journal of Simulation Modelling, 2006, 5, 114-125.	1.3	22
23	System design of underwater battery power system for marine and offshore industry. Journal of Energy Storage, 2019, 21, 724-740.	8.1	19
24	Customizable Battery Power System for Marine and Offshore Applications: Trends, Configurations, and Challenges. IEEE Electrification Magazine, 2019, 7, 46-55.	1.8	19
25	Review of Autonomous Intelligent Vehicles for Urban Driving and Parking. Electronics (Switzerland), 2021, 10, 1021.	3.1	19
26	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
27	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
28	Health stages diagnostics of underwater thruster using sound features with imbalanced dataset. Neural Computing and Applications, 2019, 31, 5767-5782.	5.6	15
29	Extracting Typhoon Disaster Information from VGI Based on Machine Learning. Journal of Marine Science and Engineering, 2019, 7, 318.	2.6	14
30	Virtual reality simulation of fuzzy-logic control during underwater dynamic positioning. Journal of Marine Science and Application, 2015, 14, 14-24.	1.7	13
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	An adaptable walking-skid for seabed ROV under strong current disturbance. Journal of Marine Science and Application, 2014, 13, 305-314.	1.7	10
33	Self-Compensated Heterodyne Laser Interferometer. International Journal of Advanced Manufacturing Technology, 2000, 16, 217-219.	3.0	9
34	Robust Design of Docking Hoop for Recovery of Autonomous Underwater Vehicle with Experimental Results. Robotics, 2015, 4, 492-515.	3.5	9
35	Semi-Supervised NMF-CNN for Sound Event Detection. IEEE Access, 2021, 9, 130529-130542.	4.2	9
36	Design of Thrusters Configuration and Thrust Allocation Control for a Remotely Operated Vehicle. , 2006, , .		8

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37	Unsupervised Learning for Monaural Source Separation Using Maximizationâ€“Minimization Algorithm with Timeâ€“Frequency Deconvolution. Sensors, 2018, 18, 1371.	3.8	8
38	Analytical modelling of structure-borne sound transmission through I-junction using Chebyshev-Ritz method on cascaded rectangular plateâ€“cavity system. Applied Acoustics, 2019, 143, 171-182.	3.3	8
39	Adaptive Fixed-Time Neural Network Tracking Control of Nonlinear Interconnected Systems. Entropy, 2021, 23, 1152.	2.2	8
40	Lithium-ion battery modeling and validation for smart power system. , 2015, , .		7
41	Enhancing performance of photovoltaic panel by cold plate design with guided channels. IET Renewable Power Generation, 2020, 14, 1606-1617.	3.1	7
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	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
44	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
45	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
46	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
47	Unity3D Serious Game Engine for High Fidelity Virtual Reality Training of Remotely-Operated Vehicle Pilot. , 2018, , .		5
48	Study on impact of noise annoyance from highway traffic in Singapore City. Proceedings of Meetings on Acoustics, 2019, , .	0.3	5
49	A Cascaded Nonlinear Heading Control with Thrust Allocation: An Application on an Underactuated Remotely Operated Vehicle. , 2006, , .		4
50	Benchmark Models of Control System Design for Remotely Operated Vehicles. , 2020, , .		4
51	Adaptive Fixed-Time Control of Strict-Feedback High-Order Nonlinear Systems. Entropy, 2021, 23, 963.	2.2	4
52	Multi-Timescale Wavelet Scattering With Genetic Algorithm Feature Selection for Acoustic Scene Classification. IEEE Access, 2022, 10, 25987-26001.	4.2	4
53	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
54	Intelligent Autonomous Transport Systems Design and Simulation. Journal of Advanced Transportation, 2018, 2018, 1-2.	1.7	3

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55	Acoustics vs. psychoacoustics: An objective and subjective analysis of classroom acoustics in Singapore. Noise Control Engineering Journal, 2019, 67, 80-97.	0.3	3
56	Acoustic Scene Classification Using Bilinear Pooling on Time-liked and Frequency-liked Convolution Neural Network. , 2019, , .		3
57	An Acoustic Annoyance Study of Hard Disk Drive for Laptop. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	2
58	Modelling and simulation of a 12-cell battery power system with fault control for underwater robot. , 2015, , .		1
59	Proposed framework for multi-level extreme machine learning for underwater thruster's fault classification using YIN fundamental frequency estimator and pitch sound. , 2017, , .		1
60	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
61	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
62	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
63	Deploying battery technology for marine vessel electrification. IEEE Potentials, 2021, 40, 24-33.	0.3	1
64	Detecting Sound Events Using Convolutional Macaron Net With Pseudo Strong Labels. , 2021, , .		1
65	A multi-hop microprocessor based prototype system for remote vibration and image monitoring of underwater offshore platform. , 2015, , .		0
66	Intelligent Marine Robotics Modelling, Simulation and Applications. Journal of Marine Science and Engineering, 2020, 8, 383.	2.6	0
67	Sliding-Mode Control of STENA DRILLMAX Drillship with Environmental Disturbances for Dynamic Positioning. Lecture Notes in Electrical Engineering, 2020, , 99-111.	0.4	0
68	Control Systems Design of Remotely Operated Vehicle. , 2020, , 75-137.		0