Shantha Gamini Jayasinghe

List of Publications by Year
in descending order

		535685	466096
62 papers	**1,645** citations	**17** h-index	**32** g-index
62 all docs	**62** docs citations	**62** times ranked	**2033** citing authors

#	Article	IF	Citations
1	Dynamic quantitative risk assessment of LNG bunkering SIMOPs based on Bayesian network. Journal of Ocean Engineering and Science, 2023, 8, 508-526.	1.7	7
2	A Robust Exciter Controller Design for Synchronous Condensers in Weak Grids. IEEE Transactions on Power Systems, 2022, 37, 1857-1867.	4.6	6
3	Quantitative risk assessment for ammonia ship‐to‐ship bunkering based on Bayesian network. Process Safety Progress, 2022, 41, 395-410.	0.4	12
4	Human Error Probability Assessment for LNG Bunkering Based on Fuzzy Bayesian Network-CREAM Model. Journal of Marine Science and Engineering, 2022, 10, 333.	1.2	15
5	Formation of Dataset for Fuzzy Quantitative Risk Assessment of LNG Bunkering SIMOPs. Data, 2022, 7, 60.	1.2	2
6	Safety philosophy and risk analysis methodology for LNG bunkering simultaneous operations (SIMOPs): A literature review. Safety Science, 2021, 136, 105150.	2.6	17
7	Dynamic System Identification of Underwater Vehicles Using Multi-Output Gaussian Processes. International Journal of Automation and Computing, 2021, 18, 681-693.	4.5	10
8	Review of Power Quality Issues in Maritime Microgrids. IEEE Access, 2021, 9, 81798-81817.	2.6	32
9	Microgrid and Fleet to Grid Operation of a Hybrid Electric Ferry. , 2021, , .		2
10	Experimental Comparison of Two Composite MRAC Methods for UUV Operations With Low Adaptation Gains. IEEE Journal of Oceanic Engineering, 2020, 45, 227-246.	2.1	9
11	Machine learning post processing of underwater vehicle pressure sensor array for speed measurement. Ocean Engineering, 2020, 213, 107771.	1.9	3
12	Exploration of the applicability of probabilistic inference for learning control in underactuated autonomous underwater vehicles. Autonomous Robots, 2020, 44, 1121-1134.	3.2	9
13	Power Smoothing and Energy Storage Sizing of Vented Oscillating Water Column Wave Energy Converter Arrays. Energies, 2020, 13, 1278.	1.6	5
14	Effects of fuel-specific energy and operational demands on cost/emission estimates: A case study on heavy fuel-oil vs liquefied natural gas. Transportation Research, Part D: Transport and Environment, 2019, 69, 77-89.	3.2	22
15	Experimental Study of Command Governor Adaptive Control for Unmanned Underwater Vehicles. IEEE Transactions on Control Systems Technology, 2019, 27, 332-345.	3.2	36
16	Techno-Economic Feasibility Study of Battery- Powered Ferries. , 2018, , .		7
17	Impact of Tidal Energy on Battery Sizing in Standalone Microgrids: A Case Study. , 2018, , .		2
18	Power Management of an Oscillating Water Column Wave Energy Converter with Battery/Supercapacitor Hybrid Energy Storage. , 2018, , .		5

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19	Thermal Management of an Electric Ferry Lithium-Ion Battery System. , 2018, , .		4
20	Multiobjective Intelligent Energy Management Optimization for Grid-Connected Microgrids. , 2018, , .		26
21	A hybrid energy management and battery size optimization for standalone microgrids: A case study for Flinders Island, Australia. Energy Conversion and Management, 2018, 175, 192-212.	4.4	108
22	AC Ship Microgrids: Control and Power Management Optimization. Energies, 2018, 11, 1458.	1.6	56
23	In-situ data vs. bottom-up approaches in estimations of marine fuel consumptions and emissions. Transportation Research, Part D: Transport and Environment, 2018, 62, 619-632.	3.2	18
24	Grey Wolf Optimization-Based Optimum Energy-Management and Battery-Sizing Method for Grid-Connected Microgrids. Energies, 2018, 11, 847.	1.6	58
25	Frequency Transient Suppression in Hybrid Electric Ship Power Systems: A Model Predictive Control Strategy for Converter Control with Energy Storage. Inventions, 2018, 3, 13.	1.3	7
26	Power management optimization of hybrid power systems in electric ferries. Energy Conversion and Management, 2018, 172, 50-66.	4.4	72
27	MPC and Energy Storage Based Frequency Regulation Strategy for Hybrid Electric Ships. , 2018, , .		2
28	Grid Integration and Power Smoothing of an Oscillating Water Column Wave Energy Converter. Energies, 2018, 11, 1871.	1.6	22
29	Ultra-High Step-Up DC-DC Converter Family Based on Feed-Forward Capacitor and Coupled Inductor. , 2018, , .		3
30	Liquefied Natural Gas as a Marine Fuel in Australia: Developing a Conceptual Framework for Strategic Decision-Making. Ocean Yearbook, 2018, 32, 497-527.	0.2	1
31	Non-parametric dynamic system identification of ships using multi-output Gaussian Processes. Ocean Engineering, 2018, 166, 26-36.	1.9	34
32	A review on recent size optimization methodologies for standalone solar and wind hybrid renewable energy system. Energy Conversion and Management, 2017, 143, 252-274.	4.4	440
33	Fuel Cell Power Management Using Genetic Expression Programming in All-Electric Ships. IEEE Transactions on Energy Conversion, 2017, 32, 779-787.	3.7	45
34	Review of Ship Microgrids: System Architectures, Storage Technologies and Power Quality Aspects. Inventions, 2017, 2, 4.	1.3	86
35	Effect of Load Changes on Hybrid Shipboard Power Systems and Energy Storage as a Potential Solution: A Review. Inventions, 2017, 2, 21.	1.3	15
36	A Model Predictive Control-Based Power Converter System for Oscillating Water Column Wave Energy Converters. Energies, 2017, 10, 1631.	1.6	14

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37	A capacitor-clamped inverter based torsional oscillation damping method for electromechanical drivetrains. MATEC Web of Conferences, 2016, 45, 03001.	0.1	0
38	Marine propulsion PM motor control under inverter partial fault. , 2016, , .		9
39	Sizing and modeling of a standalone hybrid renewable energy system. , 2016, , .		17
40	Floating power platforms for mobile cold-ironing. , 2016, , .		5
41	Technologies for under-ice AUV navigation. , 2016, , .		7
42	Capacitor-clamped inverter based transient suppression method for azimuth thruster drives. , 2016, , .		1
43	Composite model reference adaptive control for an unmanned underwater vehicle. Underwater Technology, 2015, 33, 81-93.	0.3	11
44	Hybrid cascaded multilevel inverter with supercapacitor energy storage for grid integration of renewable energy systems. , 2015, , .		4
45	Dual inverter system with integrated energy storage for grid connected photovoltaic systems. , 2015, , .		3
46	Control of a VSC-diode bridge combination for industrial rectifier applications. , 2014, , .		1
47	A Dual Inverter-Based Supercapacitor Direct Integration Scheme for Wind Energy Conversion Systems. IEEE Transactions on Industry Applications, 2013, 49, 1023-1030.	3.3	28
48	Diode-Clamped Three-Level Inverter-Based Battery/Supercapacitor Direct Integration Scheme for Renewable Energy Systems. IEEE Transactions on Power Electronics, 2011, 26, 3720-3729.	5.4	96
49	A hybrid cascaded multilevel inverter with supercapacitor direct integration for wind power systems. , 2011, , .		5
50	A direct integration scheme for battery-supercapacitor hybrid energy storage systems with the use of grid side inverter. , 2011, , .		17
51	Direct Integration of Battery Energy Storage Systems in Distributed Power Generation. IEEE Transactions on Energy Conversion, 2011, 26, 677-685.	3.7	108
52	Cascade multilevel static synchronous compensator configuration for wind farms. IET Power Electronics, 2011, 4, 548.	1.5	20
53	An analysis on the possibility of using capacitors of a three-level capacitor clamped inverter as power smoothing elements for wind power systems. , 2011, , .		7
54	Dual inverter based battery energy storage system for grid connected photovoltaic systems. , 2010, , .		13

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55	A novel dc-link voltage regulation method for single source hybrid multilevel inverters. , 2010, , .		2
56	A Battery Energy Storage interface for wind power systems with the use of grid side inverter. , 2010, , .		14
57	A dual inverter with integrated energy storage for wind power systems. , 2010, , .		9
58	A new method of interfacing battery/supercapacitor energy storage systems for distributed energy sources. , 2010, , .		18
59	A dual inverter based supercapacitor direct integration scheme for wind energy conversion systems. , 2010, , .		8
60	Connecting two wind turbine generators to the grid using only one three level NPC inverter. , 2010, , .		6
61	Grid-side cascade inverter system as an interface for wind energy storage. , 2010, , .		4
62	Space vector modulated cascade multi-level inverter for PMSG wind generation systems. , 2009, , .		20