Takeshi Yasunaga

List of Publications by Year
in descending order

56	319	933264	887953
papers	citations	10 h-index	17 g-index

56	56	56	132
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ocean Thermal Energy Conversion Using Double-Stage Rankine Cycle. Journal of Marine Science and Engineering, 2018, 6, 21.	1.2	32
2	Preliminary design of a 100ÂMW-net ocean thermal energy conversion (OTEC) power plant study case: Mentawai island, Indonesia. Journal of Marine Science and Technology, 2020, 25, 48-68.	1.3	32
3	Construction of simulation model for OTEC plant using Uehara cycle. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2011, 176, 1-13.	0.2	27
4	Finite-Time Thermodynamic Model for Evaluating Heat Engines in Ocean Thermal Energy Conversion. Entropy, 2020, 22, 211.	1.1	23
5	OTEC Maximum Net Power Output Using Carnot Cycle and Application to Simplify Heat Exchanger Selection. Entropy, 2019, 21, 1143.	1.1	23
6	Basic Heat Exchanger Performance Evaluation Method on OTEC. Journal of Marine Science and Engineering, 2018, 6, 32.	1.2	19
7	Construction of simulation model for spray flash desalination system. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2010, 170, 9-17.	0.2	17
8	Application of Finite-time Thermodynamics for Evaluation Method of Heat Engines. Energy Procedia, 2017, 129, 995-1001.	1.8	15
9	Control of OTEC Plant Using Double-stage Rankine Cycle Considering Warm Seawater Temperature Variation * *This work was partly supported by the Cooperative Research Program of IOES, Institute of Ocean Energy, Saga University (Accept #16015A). IFAC-PapersOnLine, 2017, 50, 135-140.	0.5	14
10	Estimation of Ocean Thermal Energy Conversion Resources in the East of Malaysia. Journal of Marine Science and Engineering, 2021, 9, 22.	1.2	10
11	Construction of a State Space Model for an OTEC Plant Using Rankine Cycle with Heat Flow Rate Dynamics. IFAC-PapersOnLine, 2020, 53, 13042-13047.	0.5	10
12	Web Applicaton for OTEC Simulator Using Double-stage Rankine Cycle * *This work was partly supported by the Cooperative Research Program of IOES, Institute of Ocean Energy, Saga University (Accept #16014A).. IFAC-PapersOnLine, 2017, 50, 121-128.	0.5	9
13	Performance Evaluation Concept for Ocean Thermal Energy Conversion toward Standardization and Intelligent Design. Energies, 2021, 14, 2336.	1.6	8
14	Performance Evaluation of Benchmark Plant for Selective Lithium Recovery from Seawater. Journal of Ion Exchange, 2007, 18, 450-453.	0.1	7
15	Performance Test of OTEC with Ammonia/water as Working Fluid Using Shell and Plate Type Heat Exchangers (Effects of Heat Source Temperature and Flow Rate). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2008, 74, 445-452.	0.2	7
16	Status of the â€œKumejima Modelâ€•for advanced deep seawater utilization. , 2016, , .		7
17	Liquid Level Control of Separator in an OTEC Plant with Uehara Cycle. Transactions of the Institute of Systems Control and Information Engineers, 2016, 29, 535-543.	0.1	6
18	Simultaneous Regulation of Multiple Flow Rates for Power Generation Control of OTEC Plant Using Double-Stage Rankine Cycle. , 2018, , .		6

#	Article	IF	Citations
19	Construction of a Static Model for Power Generation of OTEC Plant Using Uehara Cycle Based on Experimental Data. Journal of Marine Science and Engineering, 2018, 6, 18.	1.2	6
20	Power Generation Control of OTEC Plant Using Double-stage Rankine Cycle with Target Power Output Variation by Simultaneous Regulation of Multiple Flow Rates. , 2019, , .		5
21	Water Level Control of After Condenser in a Spray Flash Desalination System Using Stochastic Process. Transactions of the Institute of Systems Control and Information Engineers, 2019, 32, 24-31.	0.1	4
22	Anti-Windup Compensation for Water Level Control of a Spray Flash Desalination System with Flow Rate Limitations. , 2018, , .		3
23	Fundamental characteristics in power generation by heat engines on ocean thermal energy conversion (Construction of finite-time thermodynamic model and effect of heat source flow rate). Transactions of the JSME (in Japanese), 2020, 86, 19-00383-19-00383.	0.1	3
24	Spatial profile of Al-ZnO thin film on polycarbonate deposited by ring-shaped magnetized rf plasma sputtering with two facing cylindrical Al₂O₃ â€“ ZnO targets. Japanese Journal of Applied Physics, 2022, 61, SI1005.	0.8	3
25	Construction of a State Space Model with Warm and Cold Seawater Flow Rate Inputs for an OTEC Plant Using Rankine Cycle. , 2020, , .		3
26	Construction of a state-space model with multiple flow rate inputs for an OTEC plant using Rankine cycle. SICE Journal of Control Measurement and System Integration, 2022, 15, 89-98.	0.4	3
27	Study of available thermal energy on OTEC. Transactions of the JSME (in Japanese), 2018, 84, 17-00398-17-00398.	0.1	2
28	Water Level Control of Flash Chamber in a Spray Flash Desalination System with Valve Dynamics and Flow Rate Limitation. , 2019, , .		2
29	Preparation of Water-Repellent Film on a Plastic Plate by Unbalanced Radio-Frequency Magnetron Plasma Sputtering Using PTFE Target for a Next-Generation Automobile Window. Plasma Chemistry and Plasma Processing, 2021, 41, 1631.	1.1	2
30	Construction of Water Level Model for After Condenser in Spray Flash Desalination System via Stochastic Process. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2018, 2018, 100-105.	0.1	2
31	Evaluation of a liquid level model of separator in an OTEC experimental plant using Uehara cycle via different experimental data. , 2017, , .		1
32	An improvement on LQG controller for liquid level control of separator in an OTEC experimental plant using Uehara cycle. , 2017, , .		1
33	Construction of a State Space Model for a Spray Flash Desalination System. , 2020, , .		1
34	A Numerical Investigation of the Plunging Phenomenon of Cold Water Discharged from Ocean Thermal Energy Conversion Systems. Journal of Marine Science and Engineering, 2020, 8, 155.	1.2	1
35	Construction of Simulation Model for OTEC Plant Using Uehara Cycle. IEEJ Transactions on Power and Energy, 2009, 129, 272-282.	0.1	1
36	C134 Study of Evaluation Method for Low-grade Thermal Energy Conversion Using Exergy and Maximum Work of Heat Engine. The Proceedings of the Thermal Engineering Conference, 2015, 2015, _C134-1_-_C134-2_.	0.0	1

#	Article	IF	Citations
37	Model Construction of Warm Water Temperature of Heat Source in an OTEC Experimental Plant via Stochastic Process. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2017, 2017, 70-75.	0.1	1
38	Basis of Heat Exchanger Performance on Finite-time Thermodynamics in OTEC. The Proceedings of the National Symposium on Power and Energy Systems, 2018, 2018.23, E121.	0.0	1
39	Parametric analysis on hybrid ocean thermal energy conversion system. Transactions of the JSME (in) Tj ETQq1 1 0.784314 rgBT /Over	0.1	1
40	Construction of OTEC Potential Model Based on Cycle Analysis. Transactions of the Institute of Systems Control and Information Engineers, 2017, 30, 297-304.	0.1	0
41	215 Experimental Study Influence of Heat Source Conditions on OTEC System Using Ammonia/Water Mixture as Working Fluid. The Proceedings of Conference of Chugoku-Shikoku Branch, 2006, 2006, 71-72.	0.0	0
42	OS2-22 Effect of Mass Fraction of Ammonia on OTEC Systemwith Ammonia/water Mixture as Working Fluid. The Proceedings of the National Symposium on Power and Energy Systems, 2007, 2007.12, 367-368.	0.0	0
43	Construction of Simulation Model for Spray Flash Desalination System. IEEJ Transactions on Power and Energy, 2008, 128, 993-999.	0.1	0
44	C133 Research on the Influence of Temperature Difference between High- and Low-temperature Heat Sources on Multi-stage Rankine Cycle. The Proceedings of the Thermal Engineering Conference, 2015, 2015, _C133-1_-_C133-2_.	0.0	0
45	Reduction of Required Seawater Quantity by Munti-stage Rankine Cycle on OTEC. The Proceedings of the National Symposium on Power and Energy Systems, 2016, 2016.21, E123.	0.0	0
46	Heat Source Temperature Difference and Maximum Power of Multi-stage Rankine Cycle. The Proceedings of the Thermal Engineering Conference, 2016, 2016, D214.	0.0	0
47	Turbulence-induced enhancement of heat transfer performance by means of air/liquid mixing in plate heat exchangers. The Proceedings of the Thermal Engineering Conference, 2016, 2016, C112.	0.0	0
48	Parametric Analysis of Thermal Energy Conversion System Using Submarine Hydrothermal. The Proceedings of the National Symposium on Power and Energy Systems, 2017, 2017.22, E126.	0.0	0
49	Study of Available Thermal Energy on OTEC. The Proceedings of the National Symposium on Power and Energy Systems, 2017, 2017.22, E124.	0.0	0
50	Study of System Design Method for Rankine Cycle System on OTEC. The Proceedings of the National Symposium on Power and Energy Systems, 2017, 2017.22, E125.	0.0	0
51	The Visualization of Evaporation in Plate Heat Exchanger for Low-grade Thermal Energy Conversion. The Proceedings of the National Symposium on Power and Energy Systems, 2018, 2018.23, E123.	0.0	0
52	Remote Control of OTEC Plant Simulator Using Double-stage Rankine Cycle. The Proceedings of the National Symposium on Power and Energy Systems, 2018, 2018.23, E122.	0.0	0
53	Control System for Water Level Control of Flash Chamber in a Spray Flash Desalination System via Stochastic Processes. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2020, 2020, 7-12.	0.1	0
54	Proposal of Performance Evaluation Index of Heat Exchanger for Ocean Thermal Energy Conversion based on Finite-time Thermodynamics. The Proceedings of the National Symposium on Power and Energy Systems, 2021, 2021.25, C133.	0.0	0

#	Article	IF	Citations
55	Heat transfer performance evaluation of an evaporator-condenser for hybrid cycle OTEC. The Proceedings of the National Symposium on Power and Energy Systems, 2021, 2021.25, C132.	0.0	0
56	OTEC and Advanced Deep Ocean Water Use for Kumejima: An Introduction. , 2022, , .		0