Sam Yang

List of Publications by Year
in descending order

		933447	996975
37 papers	**282** citations	**10** h-index	**15** g-index
37 all docs	**37** docs citations	**37** times ranked	**242** citing authors

#	Article	IF	Citations
1	Solar-driven liquid air power plant modeling, design space exploration, and multi-objective optimization. Energy, 2022, 246, 123324.	8.8	3
2	vemPEBB: Rapid PEBB Thermal Management Tool. , 2021, , .		2
3	Development of Generic Superconducting Components Library in MATLAB/Simulink for Thermal-Hydraulic Analyses. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1
4	Dynamic thermal analysis of a residential ground-source heat pump. Sustainable Energy Technologies and Assessments, 2020, 37, 100608.	2.7	4
5	3D thermal-hydraulic analysis of a symmetric wavy parabolic trough absorber pipe. Energy, 2019, 189, 116320.	8.8	13
6	Aircraft Weight Reduction and Onboard Combined Power Cycle Efficiency Improvement—An Integrative Approach. , 2019, , .		1
7	Shipboard PEBB Cooling Strategies. , 2019, , .		11
8	Cold Thermal Energy Storage for Reliable Ship Cooling Under Thermal Cycling and Cooling Loss. , 2019, , .		1
9	Ship HVAC System Analysis and Optimization Tool. , 2019, , .		1
10	Optimal Cooling Channel Layout in a Hot Enclosure Subject to Natural Convection. Journal of Heat Transfer, 2019, 141, .	2.1	6
11	Experimental Calibration of a Biohydrogen Production Estimation Model. Journal of Verification, Validation and Uncertainty Quantification, 2019, 4, .	0.4	0
12	Dynamic 3D volume element model of a parabolic trough solar collector for simulation and optimization. Applied Energy, 2018, 217, 509-526.	10.1	26
13	Integrative thermodynamic optimization of a vapor compression refrigeration system based on dynamic system responses. Applied Thermal Engineering, 2018, 135, 493-503.	6.0	16
14	Thermal management of a notional all-electric ship electromagnetic launcher. Energy Conversion and Management, 2018, 157, 339-350.	9.2	11
15	Volume element model for 3D dynamic building thermal modeling and simulation. Energy, 2018, 148, 642-661.	8.8	18
16	A genset and mini-photobioreactor association for CO_2 capturing, enhanced microalgae growth and multigeneration. Renewable Energy, 2018, 125, 985-994.	8.9	10
17	Modeling, cross-validation, and optimization of a shipboard integrated energy system cooling network. Applied Thermal Engineering, 2018, 145, 516-527.	6.0	7
18	Experimental Calibration of a Biohydrogen Production Estimation Model. , 2018, , .		0

#	Article	IF	Citations
19	Integration of transparent insulation materials into solar collector devices. Solar Energy, 2017, 147, 8-21.	6.1	39
20	Volume Element Model for Modeling, Simulation, and Optimization of Parabolic Trough Solar Collectors. , 2017, , .		0
21	Constructal vapor compression refrigeration (VCR) systems design. International Journal of Heat and Mass Transfer, 2017, 115, 754-768.	4.8	15
22	Multiphysics model of a notional all-electric ship railgun â€" Model development and application. , 2017, , .		0
23	System-level ship thermal management tool for dynamic thermal and piping network analyses in early-design stages. , 2017, , .		1
24	Heat transfer fluids for parabolic trough solar collectors - a comparative study. , 2016, , .		11
25	Mathematical formulation and demonstration of a dynamic system-level ship thermal management tool. Advances in Engineering Software, 2016, 100, 1-18.	3.8	15
26	Concurrent Solenoid Design Optimization From Thermal and Electromagnetic Standpoints. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	2
27	Stationary compression ignition internal combustion engines (CI-ICE) CO_2 capturing via microalgae culture using a mini-photobioreactor. , 2015, , .		1
28	Experimental exergy analysis of the solar thermal system in the Off-Grid Zero Emissions Building. , 2015, , .		1
29	Comprehensive system-level thermal modeling of all-electric ships: Integration of SMCS and vemESRDC. , 2015, , .		5
30	Development and implementation of a dynamic vapor compression refrigeration model into vemESRDC ship thermal management tool. , 2015, , .		4
31	A volume element model (VEM) for energy systems engineering. International Journal of Energy Research, 2015, 39, 46-74.	4.5	23
32	Volume element model mesh generation strategy and its application in ship thermal analysis. Advances in Engineering Software, 2015, 90, 107-118.	3.8	13
33	Thermal Simulation of an Off-Grid Zero Emissions Building. , 2014, , .		3
34	Thermal management aspects of all-electric ships. , 2013, , .		3
35	The experimental validation of a transient power electronic building block (PEBB) mathematical model. Applied Thermal Engineering, 2013, 60, 411-422.	6.0	12
36	Developing a validated real-time system-level thermal simulation for future all-electric ships. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Electronic packaging cabinets simplified modeling, simulation, and experimental validation for systems engineering. Simulation, 0, , 003754972110699.	1.8	0