Lei Chen

List of Publications by Year
in descending order

59 papers	1,006 citations	471061 17 h-index	454577 30 g-index
61 all docs	61 docs citations	61 times ranked	875 citing authors

#	Article	IF	Citations
1	Simulation of innovative hybridizing M-cycle cooler and absorption-refrigeration for pre-cooling of gas turbine intake air: Including a case study for Siemens SGT-750 gas turbine. Energy, 2022, 247, 123356.	4.5	12
2	Energy-Saving Potential of Thermal Diode Tank Assisted Refrigeration and Air-Conditioning Systems. Energies, 2022, 15, 206.	1.6	3
3	A neural network approach for improving airfoil active flutter suppression under control-input constraints. JVC/Journal of Vibration and Control, 2021, 27, 451-467.	1.5	3
4	Modified value-function-approximation for synchronous policy iteration with single-critic configuration for nonlinear optimal control. International Journal of Control, 2021, 94, 1321-1333.	1.2	5
5	Proposing the concept of mini Maisotsenko cycle cooler for electronic cooling purposes; experimental study. Case Studies in Thermal Engineering, 2021, 27, 101325.	2.8	13
6	Developing a virtual stiffness-damping system for airfoil aeroelasticity testing. Journal of Sound and Vibration, 2020, 468, 115061.	2.1	3
7	Analytical/experimental sensitivity study of key design and operational parameters of perforated Maisotsenko cooler based on novel wet-surface theory. Applied Energy, 2020, 262, 114557.	5.1	25
8	Developing a Virtual Stiffness-Damping System for Airfoil Aeroelasticity Testing. , 2019, , .		1
9	Powder Metallurgy Synthesis of Heusler Alloys: Effects of Process Parameters. Materials, 2019, 12, 1596.	1.3	6
10	Using novel integrated Maisotsenko cooler and absorption chiller for cooling of gas turbine inlet air. Energy Conversion and Management, 2019, 195, 1067-1078.	4.4	41
11	Comprehensive exergetic study of regenerative Maisotsenko air cooler; formulation and sensitivity analysis. Applied Thermal Engineering, 2019, 152, 455-467.	3.0	23
12	Parametric Analysis for Robust Force/Torque Tracking Control of a Virtual Stiffness-Damping System in Aeroelastic Instability Testing. , 2019, , .		0
13	Adaptive nonlinear optimal control for active suppression of airfoil flutter via a novel neural-network-based controller. JVC/Journal of Vibration and Control, 2018, 24, 5261-5272.	1.5	12
14	Mixed mode operation for the Solar Aided Power Generation. Applied Thermal Engineering, 2018, 139, 177-186.	3.0	30
15	Powder processing and characterisation of a quinary Ni-Mn-Co-Sn-Cu Heusler alloy. Powder Technology, 2018, 324, 69-75.	2.1	7
16	A comprehensive review of the Maisotsenko-cycle based air conditioning systems. Energy, 2018, 156, 725-749.	4.5	69
17	Ferromagnetic Shape Memory Heusler Materials: Synthesis, Microstructure Characterization and Magnetostructural Properties. Materials, 2018, 11, 988.	1.3	24
18	Development and validation of an analytical model for perforated (multi-stage) regenerative M-cycle air cooler. Applied Energy, 2018, 228, 2176-2194.	5.1	36

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19	Comparison of inverse modelling and optimization-based methods in the heat flux estimation problem of an irradiative dryer/furnace. Journal of Computational Science, 2017, 19, 77-85.	1.5	5
20	Concentrating or non-concentrating solar collectors for solar Aided Power Generation?. Energy Conversion and Management, 2017, 152, 281-290.	4.4	31
21	An Artificial Intelligence Solution for Heat Flux Estimation Using Temperature History; A Two-Input/Two-Output Problem. Chemical Engineering Communications, 2017, 204, 289-294.	1.5	2
22	Nonlinear optimal control for active suppression of airfoil flutter via a novel neural-network-based controller. , 2017, , .		1
23	A Novel Actuator Controller: Delivering a Practical Solution to Realization of Active-Truss-Based Morphing Wings. IEEE Transactions on Industrial Electronics, 2016, 63, 6226-6237.	5.2	8
24	Neuroâ€Predictive Control of an Infrared Dryer with a Feedforwardâ€Feedback Approach. Asian Journal of Control, 2015, 17, 1972-1977.	1.9	3
25	A hybrid model predictive control scheme for energy and cost savings in commercial buildings: Simulation and experiment. , 2015, , .		8
26	Neural-network based online policy iteration for continuous-time infinite-horizon optimal control of nonlinear systems. , 2015, , .		1
27	A new model predictive control scheme for energy and cost savings in commercial buildings: An airport terminal building case study. Building and Environment, 2015, 89, 203-216.	3.0	126
28	An enhanced physics-based model to estimate the displacement of piezoelectric actuators. Journal of Intelligent Material Systems and Structures, 2015, 26, 1442-1451.	1.4	9
29	A neural network-based multi-zone modelling approach for predictive control system design in commercial buildings. Energy and Buildings, 2015, 97, 86-97.	3.1	100
30	Model predictive control for energy-efficient buildings: An airport terminal building study. , 2014, , .		8
31	A comparative approach of inverse modelling applied to an irradiative batch dryer employing several artificial neural networks. International Communications in Heat and Mass Transfer, 2014, 53, 164-173.	2.9	11
32	Optical sensing by polystyrene microspheres. , 2013, , .		1
33	A comparative artificial intelligence approach to inverse heat transfer modeling of an irradiative dryer. International Communications in Heat and Mass Transfer, 2013, 41, 19-27.	2.9	17
34	Multi-zone temperature prediction in a commercial building using artificial neural network model. , 2013, , .		16
35	Physics-based modelling of a piezoelectric actuator using genetic algorithm. , 2013, , .		5
36	A comparative study of different physics-based approaches to modelling of piezoelectric actuators. , 2013, , .		11

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37	A New Zone Temperature Predictive Modeling for Energy Saving in Buildings. Procedia Engineering, 2012, 49, 142-151.	1.2	26
38	Distributed Hybrid Vibration Absorbers for Shock and Forced Vibrations. Applied Mechanics and Materials, 2012, 166-169, 1709-1712.	0.2	0
39	An artificial intelligence approach to inverse heat transfer modeling of an irradiative dryer. International Communications in Heat and Mass Transfer, 2012, 39, 40-45.	2.9	15
40	A critical review of the most popular types of neuro control. Asian Journal of Control, 2012, 14, 1-11.	1.9	80
41	Intelligent control of a nonlinear tank reactor. Asian Journal of Control, 2011, 13, 439-444.	1.9	3
42	Intelligent predictive control of a model helicopter's yaw angle. Asian Journal of Control, 2010, 12, 667-679.	1.9	28
43	Double-command fuzzy control of a nonlinear CSTR. Korean Journal of Chemical Engineering, 2010, 27, 19-31.	1.2	14
44	Double-command feedforward-feedback control of a nonlinear plant. Korean Journal of Chemical Engineering, 2010, 27, 1372-1376.	1.2	3
45	A design approach for feedback-feedforward control systems. , 2009, , .		6
46	Using magnetorheological(MR) fluid as distributed actuators for smart structures. , 2009, , .		2
47	Vibration Suppression of a Principal Parametric Resonance. JVC/Journal of Vibration and Control, 2009, 15, 439-463.	1.5	19
48	A combination of linear and nonlinear activation functions in neural networks for modeling a de-superheater. Simulation Modelling Practice and Theory, 2009, 17, 398-407.	2.2	30
49	Design and stability discussion of an hybrid intelligent controller for an unordinary system. Asian Journal of Control, 2009, 11, 476-488.	1.9	7
50	Intelligent control of a nonlinear tank reactor based on Lyapunov direct method. , 2009, , .		0
51	Double-command feedforward-feedback control of a nonlinear plant. , 2009, , .		0
52	Double-command fuzzy control of a nonlinear CSTR. , 2008, , .		3
53	Distributed active shock absorbers for flexible structures. , 2008, , .		0
54	Control inertia and fuzzy brakes. , 2008, , .		1

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55	Active Nonlinear Vibration Absorber Design for Flexible Structures. International Journal of Acoustics and Vibrations, 2007, 12, .	0.3	3
56	Identification and Control of a Nonlinear Discrete-Time System Based on its Linearization: A Unified Framework. IEEE Transactions on Neural Networks, 2004, 15, 663-673.	4.8	84
57	Bifurcation control of a flexible beam under principal parametric excitation. , 2000, , .		1
58	Nonlinear control of a parametrically excited system subject to actuator saturation. , 0, , .		1
59	Techniques to characterize ternary and quaternary ferromagnetic shape memory alloys. Critical Reviews in Solid State and Materials Sciences, 0, , 1-22.	6.8	1