Yi Wang

List of Publications by Year
in descending order

36 papers	476 citations	840776 11 h-index	713466 21 g-index
37 all docs	37 docs citations	37 times ranked	453 citing authors

#	Article	IF	Citations
1	A microfluidic impedance flow cytometer for identification of differentiation state of stem cells. Lab on A Chip, 2013, 13, 2300.	6.0	108
2	Systematic modeling of microfluidic concentration gradient generators. Journal of Micromechanics and Microengineering, 2006, 16, 2128-2137.	2.6	57
3	A model for laminar diffusion-based complex electrokinetic passive micromixers. Lab on A Chip, 2005, 5, 877.	6.0	42
4	Generation of complex concentration profiles by partial diffusive mixing in multi-stream laminar flow. Lab on A Chip, 2009, 9, 1439.	6.0	34
5	Identification of mesenchymal stem cell differentiation state using dual-micropore microfluidic impedance flow cytometry. Analytical Methods, 2016, 8, 7437-7444.	2.7	22
6	Label-free mesenchymal stem cell enrichment from bone marrow samples by inertial microfluidics. Analytical Methods, 2018, 10, 713-721.	2.7	22
7	Inverse design of microfluidic concentration gradient generator using deep learning and physics-based component model. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	18
8	Projection-Based Reduced-Order Modeling for Spacecraft Thermal Analysis. Journal of Spacecraft and Rockets, 2015, 52, 978-989.	1.9	17
9	Surrogate-based optimization with adaptive sampling for microfluidic concentration gradient generator design. RSC Advances, 2020, 10, 13799-13814.	3.6	16
10	Genetic Algorithm-Based Model Order Reduction of Aeroservoelastic Systems with Consistent States. Journal of Aircraft, 2017, 54, 1443-1453.	2.4	15
11	A reduced-order model for whole-chip thermal analysis of microfluidic lab-on-a-chip systems. Microfluidics and Nanofluidics, 2014, 16, 369-380.	2.2	13
12	Model Order Reduction of Aeroservoelastic Model of Flexible Aircraft. , 2016, , .		10
13	Fault compensation by online updating of genetic algorithm-selected neural network model for model predictive control. SN Applied Sciences, 2019, 1, 1.	2.9	9
14	Scaled sequential threshold least-squares (S2TLS) algorithm for sparse regression modeling and flight load prediction. Aerospace Science and Technology, 2019, 85, 514-528.	4.8	9
15	State consistence of data-driven reduced order models for parametric aeroelastic analysis. SN Applied Sciences, 2021, 3, 1.	2.9	9
16	GPU-based Global Path Planning Using Genetic Algorithm with Near Corner Initialization. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	3.4	9
17	A Flow feature detection framework for large-scale computational data based on incremental proper orthogonal decomposition and data mining. International Journal of Computational Fluid Dynamics, 2018, 32, 261-277.	1.2	8
18	A sequential multi-fidelity surrogate-based optimization methodology based on expected improvement reduction. Structural and Multidisciplinary Optimization, 2022, 65, .	3.5	7

#	Article	IF	Citations
19	Reduced-Order Modeling Based on Hybrid Snapshot Simulation. International Journal of Computational Methods, 2021, 18, 2050029.	1.3	6
20	Optimized Artificial Neural Network Model and Compensator in Model Predictive Control for Anomaly Mitigation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	1.6	6
21	DEIM reduced order model constructed by hybrid snapshot simulation. SN Applied Sciences, 2020, 2, 1.	2.9	4
22	Numerical analysis of temporal effect of ballast shoulder cleaning. Transportation Geotechnics, 2021, 28, 100532.	4.5	4
23	Aeroelastic Reduced Order Model with State Consistence Enforcement. , 2022, , .		4
24	A reduced order modeling method based on GNAT-embedded hybrid snapshot simulation. Mathematics and Computers in Simulation, 2022, 199, 100-132.	4.4	4
25	Feature extraction from massive, dynamic computational data based on proper orthogonal decomposition and feature mining. Journal of Visualization, 2014, 17, 363-372.	1.8	3
26	Development of Aeroelastic and Aeroservoelastic Reduced Order Models for Active Structural Control. , 2015, , .		3
27	Simulating Fouling Material Transport in Ballast. , 2018, , .		3
28	Multistage Liquid Rocket Weight Estimation and Optimization for Early Design Stages. Journal of Aerospace Engineering, 2020, 33, .	1.4	3
29	Model Predictive Control of Quadcopter Using Physics-guided Neural Network. , 2022, , .		3
30	Automated optimization of double heater convective polymerase chain reaction devices based on CFD simulation database and artificial neural network model. Biomedical Microdevices, 2021, 23, 20.	2.8	2
31	A deep learning-assisted mathematical model for decongestion time prediction at railroad grade crossings. Neural Computing and Applications, 2022, 34, 4715-4732.	5.6	2
32	GPU-enabled microfluidic design automation for concentration gradient generators. Engineering With Computers, 2023, 39, 1637-1652.	6.1	2
33	Surrogate- and possibility-based design optimization for convective polymerase chain reaction devices. Microsystem Technologies, 2021, 27, 2623-2638.	2.0	1
34	A Novel Adaptive Sampling Method Based on Expected Improvement Reduction. , 2022, , .		1
35	Online Machine Learning Model Compensator for Model Predictive Control and Anomaly Mitigation of Mechanical Systems. , 2020, , .		0
36	Multi-fidelity reduced-order model for GPU-enabled microfluidic concentration gradient design. Engineering With Computers, 0, , .	6.1	0