

Xiaobing Zhang

List of Publications by Year in descending order

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64
papers

657
citations

566801

15
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752256

20
g-index

64
all docs

64
docs citations

64
times ranked

313
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamics of green supply chain management within the framework of renewable energy. <i>International Journal of Energy Research</i> , 2022, 46, 684-711.	2.2	52
2	Numerical simulations of the dynamics of Taylor bubble in the presence of small-dispersed bubbles. <i>Heat and Mass Transfer</i> , 2022, 58, 643-655.	1.2	0
3	Parametric research on drag reduction and thermal protection of blunt-body with opposing jets of forward convergent nozzle in supersonic flows. <i>Acta Astronautica</i> , 2022, 190, 218-230.	1.7	11
4	Output-Based Event-Triggered Cooperative Robust Regulation for Constrained Heterogeneous Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 6295-6306.	6.2	9
5	Heat transfer enhancement of hydrogen rocket engine chamber wall by using V-shape rib. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9775-9790.	3.8	17
6	Space-and-time-synchronized simultaneous fully-actuated vehicle tracking/formation using cascaded prescribed-time control. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 2380-2398.	2.1	5
7	Numerical study on enhanced heat transfer and flow characteristics of supercritical hydrogen rocket engine's chamber wall using cylindrical ribs structure. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 17423-17441.	3.8	17
8	Laser Ignition Process of Energetic Particles Under Consideration of Non-Fourier Effect. <i>Propellants, Explosives, Pyrotechnics</i> , 2022, 47, .	1.0	1
9	Numerical investigation of pentagonal V-shape ribs to enhance heat transfer in hydrogen rocket engine cooling channels. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 23871-23886.	3.8	12
10	Robust invariance-based explicit reference control for constrained linear systems. <i>Automatica</i> , 2022, 143, 110433.	3.0	6
11	Design and optimization of a novel supersonic rocket with small caliber. <i>Journal of Industrial and Management Optimization</i> , 2022, .	0.8	2
12	Three-Dimensional Space-and-Time-Synchronized Target-Tracking Control Under Input Saturation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, , 1-13.	5.9	1
13	Hydrodynamics analysis of Taylor flow in oil and gas pipelines under constant heat flux. <i>Heat and Mass Transfer</i> , 2021, 57, 515-527.	1.2	2
14	Improving the surface hydrophobicity by the solvent effect to reduce the water erosion of the CL-20/TNT cocrystal explosive. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23341-23350.	1.3	3
15	Prescribed-time control with explicit reference governor for a class of constrained cascaded systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 6422-6437.	2.1	7
16	Analysis of the thermal rectification in silicon structure with triangular holes. <i>Molecular Simulation</i> , 2021, 47, 1234-1240.	0.9	0
17	Prediction of thermal conductivity and phonon spectral of silicon material with pores for semiconductor device. <i>Physica B: Condensed Matter</i> , 2021, 614, 413034.	1.3	6
18	Thermal resistance and thermal rectification of silicon device with triangular pores: A molecular dynamics study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 413, 127590.	0.9	0

#	ARTICLE	IF	CITATIONS
19	Numerical Simulation and Analysis of Muzzle Flow During a Rarefaction Wave Gun Firing. Propellants, Explosives, Pyrotechnics, 2021, 46, 1902-1913.	1.0	7
20	Inverse optimal missile guidance law under constraints based on prescribed-time explicit reference governor. ISA Transactions, 2021, , .	3.1	1
21	Numerical Research on the Impinging Effect of Sequential Muzzle Blast Waves Formed by Successive Shooting at High Frequency. Propellants, Explosives, Pyrotechnics, 2020, 45, 1416-1427.	1.0	1
22	Study on the initiation characteristics of the oblique detonation wave by a co-flow hot jet. Acta Astronautica, 2020, 177, 86-95.	1.7	18
23	Study on the transition patterns of the oblique detonation wave with varying temperature of the hydrogen-air mixture. Fuel, 2020, 274, 117827.	3.4	12
24	Enhancement heat transfer analysis of supercritical hydrogen fuel in small-scale channels with spherical concave. International Journal of Thermal Sciences, 2020, 152, 106287.	2.6	13
25	Pore-size dependence of the heat conduction in porous silicon and phonon spectral energy density analysis. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126503.	0.9	8
26	Turbulent heat transfer analysis in supercritical hydrogen fuel flow considering thermal stratification. Numerical Heat Transfer; Part A: Applications, 2020, 77, 913-929.	1.2	4
27	The influence of thermal stratification on hydrogen fuel flow and heat transfer in cooling channel with combining fin and dimple. International Journal of Hydrogen Energy, 2020, 45, 9064-9076.	3.8	18
28	Online Performance-Based Adaptive Fuzzy Dynamic Surface Control for Nonlinear Uncertain Systems Under Input Saturation. IEEE Transactions on Fuzzy Systems, 2019, 27, 209-220.	6.5	23
29	Study on the Initiation Mechanism of Non-Premixed Shock Induced Combustion in Supersonic Propellant Gas Jet. Propellants, Explosives, Pyrotechnics, 2019, 44, 1302-1311.	1.0	1
30	A method of rib-bed plate enhancing heat transfer in hydrogen rocket engine chamber wall. International Journal of Hydrogen Energy, 2019, 44, 20504-20515.	3.8	23
31	Nanoscale size effect and phonon properties of silicon material through simple spectral energy density analysis based on molecular dynamics. Journal of Physics Condensed Matter, 2019, 31, 425701.	0.7	5
32	Numerical Simulation of Plasma-Propellant Interaction Under the Non-Fourier Model. Propellants, Explosives, Pyrotechnics, 2019, 44, 1535-1540.	1.0	3
33	Study on the effects of geometry on the initiation characteristics of the oblique detonation wave for hydrogen-air mixture. International Journal of Hydrogen Energy, 2019, 44, 17004-17014.	3.8	23
34	Hydrogen flow and heat transfer characteristic analysis in cooling channel wall with the spherical convexity structure. International Journal of Hydrogen Energy, 2019, 44, 16991-17003.	3.8	14
35	A Novel Launching System Applying a Relay Chamber Technology and Its Optimization. Propellants, Explosives, Pyrotechnics, 2019, 44, 1199-1205.	1.0	2
36	Non-Fourier Effects on the Temperature Time-Dependence of a Silicon Igniter. IEEE Electron Device Letters, 2019, 40, 854-857.	2.2	11

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37	A Variable-Rate Firing Optimization of Launcher Based on Particle Swarm Optimization. Propellants, Explosives, Pyrotechnics, 2019, 44, 647-653.	1.0	2
38	A novel two-loop large offset tracking control of an uncertain nonlinear system with input constraints. Fuzzy Sets and Systems, 2019, 374, 82-99.	1.6	5
39	A Riemann Problem Based Coupling Method for Predicting the Combustion of Propellant in a Gun Launching Process. Propellants, Explosives, Pyrotechnics, 2019, 44, 751-758.	1.0	4
40	Integrated Missile Guidance and Control: A Novel Explicit Reference Governor Using a Disturbance Observer. IEEE Transactions on Industrial Electronics, 2019, 66, 5487-5496.	5.2	30
41	Investigations of electrical and thermal properties in semiconductor device based on a thermoelectrical model. Journal of Materials Science, 2019, 54, 2392-2405.	1.7	10
42	A novel method for trigger location control of the oblique detonation wave by a modified wedge. Combustion and Flame, 2018, 197, 65-77.	2.8	21
43	Two-dimensional numerical simulation of thermo-electric coupling model in semiconductor bridge ignition system. International Journal of Heat and Mass Transfer, 2017, 113, 195-202.	2.5	12
44	Numerical investigation on combustion in muzzle flows using an inert gas labeling method. International Journal of Heat and Mass Transfer, 2016, 101, 91-103.	2.5	20
45	Two-Dimensional Numerical Simulation of Gas-Solid Reactive Flow with Moving Boundary. Combustion Science and Technology, 2015, 187, 977-998.	1.2	12
46	Effects of Reynolds and Prandtl Numbers on Heat Transfer Around a Circular Cylinder by the Simplified Thermal Lattice Boltzmann Model. Communications in Computational Physics, 2015, 17, 937-959.	0.7	24
47	Analysis of Transient Conduction and Radiation Problems Using the Lattice Boltzmann and Discrete Ordinates Methods. Numerical Heat Transfer; Part A: Applications, 2015, 68, 619-637.	1.2	17
48	DERIVATION OF PERMEABILITY-PORE RELATIONSHIP FOR FRACTAL POROUS RESERVOIRS USING SERIES-PARALLEL FLOW RESISTANCE MODEL AND LATTICE BOLTZMANN METHOD. Fractals, 2014, 22, 1440005.	1.8	26
49	Improvement of Interior Ballistic Performance Utilizing Particle Swarm Optimization. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	10
50	Interior Ballistic Two-Phase Flow Model of Guided-Projectile Gun System Utilizing Stick Propellant Charge. Propellants, Explosives, Pyrotechnics, 2014, , n/a-n/a.	1.0	0
51	Numerical Investigation on the Transient Ignition Behavior Using CFD-DEM Approach. Combustion Science and Technology, 2014, 186, 1115-1137.	1.2	13
52	Modeling of Interior Ballistic Gas-Solid Flow Using a Coupled Computational Fluid Dynamics-Discrete Element Method. Journal of Applied Mechanics, Transactions ASME, 2013, 80, 0314031-314036.	1.1	15
53	Interior Ballistic Modeling and Simulation for Different Charge Zones in Modular Charge System. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	11
54	Study of Co-pyrolysis Characteristics of Lignite and Rice Husk in a TGA and a Fixed-Bed Reactor. International Journal of Chemical Reactor Engineering, 2013, 11, 479-488.	0.6	9

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55	Numerical Simulation and Analysis of the Muzzle Flow During the Revolving Barrel Gun Firing. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	3
56	ASYMPTOTIC ANALYSIS OF GENERALIZED THERMOELASTICITY FOR AXISYMMETRIC PLANE STRAIN PROBLEM WITH TEMPERATURE-DEPENDENT MATERIAL PROPERTIES. International Journal of Applied Mechanics, 2013, 05, 1350023.	1.3	14
57	Using NSGA-II and TOPSIS Methods for Interior Ballistic Optimization Based on One-Dimensional Two-Phase Flow Model. Propellants, Explosives, Pyrotechnics, 2012, 37, 468-475.	1.0	15
58	Temperature Distribution and Discharge Modeling of a Semiconductor Bridge. IEEE Transactions on Plasma Science, 2012, 40, 16-21.	0.6	8
59	Multi-Objective Optimization of Interior Ballistic Performance Using NSGA-II. Propellants, Explosives, Pyrotechnics, 2011, 36, 282-290.	1.0	13
60	Simulation of Contamination Prevention for Optical Window in Laser Ignition Systems of Large-Caliber Guns. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	1.1	8
61	Aerodynamic Analysis of Projectile in Gun System Firing Process. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	1.1	11
62	A novel variable step size least mean square method for adaptive micro-vibration control. JVC/Journal of Vibration and Control, 0, , 107754632110228.	1.5	2
63	A hybrid genetic-particle swarm optimizer using precise mutation strategy for computationally expensive problems. Applied Intelligence, 0, , 1.	3.3	4
64	Investigation of the Thermal Field on Solid Propellant Grain with Cracks by Moving Particle Semi-Implicit Method. Propellants, Explosives, Pyrotechnics, 0, , .	1.0	0