

Xiaobing Zhang

List of Publications by Year in descending order

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all docs

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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. International Journal of Energy Research, 2022, 46, 684-711.	2.2	52
2	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
3	DERIVATION OF PERMEABILITYâ€“PORE RELATIONSHIP FOR FRACTAL POROUS RESERVOIRS USING SERIESâ€“PARALLEL FLOW RESISTANCE MODEL AND LATTICE BOLTZMANN METHOD. Fractals, 2014, 22, 1440005.	1.8	26
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Heat transfer enhancement of hydrogen rocket engine chamber wall by using V-shape rib. International Journal of Hydrogen Energy, 2022, 47, 9775-9790.	3.8	17
14	Numerical study on enhanced heat transfer and flow characteristics of supercritical hydrogen rocket engine's chamber wall using cylindrical ribs structure. International Journal of Hydrogen Energy, 2022, 47, 17423-17441.	3.8	17
15	Using NSGAâ€“II and TOPSIS Methods for Interior Ballistic Optimization Based on Oneâ€“Dimensional Twoâ€“Phase Flow Model. Propellants, Explosives, Pyrotechnics, 2012, 37, 468-475.	1.0	15
16	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
17	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
18	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

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19	Multi-Objective Optimization of Interior Ballistic Performance Using NSGA-II. Propellants, Explosives, Pyrotechnics, 2011, 36, 282-290.	1.0	13
20	Numerical Investigation on the Transient Ignition Behavior Using CFD-DEM Approach. Combustion Science and Technology, 2014, 186, 1115-1137.	1.2	13
21	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
22	Two-Dimensional Numerical Simulation of Gas-Solid Reactive Flow with Moving Boundary. Combustion Science and Technology, 2015, 187, 977-998.	1.2	12
23	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
24	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
25	Numerical investigation of pentagonal V-shape ribs to enhance heat transfer in hydrogen rocket engine cooling channels. International Journal of Hydrogen Energy, 2022, 47, 23871-23886.	3.8	12
26	Aerodynamic Analysis of Projectile in Gun System Firing Process. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	1.1	11
27	Interior Ballistic Modeling and Simulation for Different Charge Zones in Modular Charge System. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	11
28	Non-Fourier Effects on the Temperature Time-Dependence of a Silicon Igniter. IEEE Electron Device Letters, 2019, 40, 854-857.	2.2	11
29	Parametric research on drag reduction and thermal protection of blunt-body with opposing jets of forward convergent nozzle in supersonic flows. Acta Astronautica, 2022, 190, 218-230.	1.7	11
30	Improvement of Interior Ballistic Performance Utilizing Particle Swarm Optimization. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	10
31	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
32	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
33	Output-Based Event-Triggered Cooperative Robust Regulation for Constrained Heterogeneous Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 6295-6306.	6.2	9
34	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
35	Temperature Distribution and Discharge Modeling of a Semiconductor Bridge. IEEE Transactions on Plasma Science, 2012, 40, 16-21.	0.6	8
36	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

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37	Prescribed-time control with explicit reference governor for a class of constrained cascaded systems. International Journal of Robust and Nonlinear Control, 2021, 31, 6422-6437.	2.1	7
38	Numerical Simulation and Analysis of Muzzle Flow During a Rarefaction Wave Gun Firing. Propellants, Explosives, Pyrotechnics, 2021, 46, 1902-1913.	1.0	7
39	Prediction of thermal conductivity and phonon spectral of silicon material with pores for semiconductor device. Physica B: Condensed Matter, 2021, 614, 413034.	1.3	6
40	Robust invariance-based explicit reference control for constrained linear systems. Automatica, 2022, 143, 110433.	3.0	6
41	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
42	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
43	Space-time-synchronized simultaneous fully-actuated vehicle tracking/formation using cascaded prescribed-time control. International Journal of Robust and Nonlinear Control, 2022, 32, 2380-2398.	2.1	5
44	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
45	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
46	A hybrid genetic-particle swarm optimizer using precise mutation strategy for computationally expensive problems. Applied Intelligence, 0, , 1.	3.3	4
47	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
48	Numerical Simulation of Plasma-Propellant Interaction Under the Non-Fourier Model. Propellants, Explosives, Pyrotechnics, 2019, 44, 1535-1540.	1.0	3
49	Improving the surface hydrophobicity by the solvent effect to reduce the water erosion of the CL-20/TNT cocrystal explosive. Physical Chemistry Chemical Physics, 2021, 23, 23341-23350.	1.3	3
50	A Novel Launching System Applying a Relay Chamber Technology and Its Optimization. Propellants, Explosives, Pyrotechnics, 2019, 44, 1199-1205.	1.0	2
51	A Variable-Rate Firing Optimization of Launcher Based on Particle Swarm Optimization. Propellants, Explosives, Pyrotechnics, 2019, 44, 647-653.	1.0	2
52	Hydrodynamics analysis of Taylor flow in oil and gas pipelines under constant heat flux. Heat and Mass Transfer, 2021, 57, 515-527.	1.2	2
53	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
54	Design and optimization of a novel supersonic rocket with small caliber. Journal of Industrial and Management Optimization, 2022, .	0.8	2

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55	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
56	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
57	Inverse optimal missile guidance law under constraints based on prescribed-time explicit reference governor. ISA Transactions, 2021, , .	3.1	1
58	Laser Ignition Process of Energetic Particles Under Consideration of Non-Fourier Effect. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.0	1
59	Three-Dimensional Space-and-Time-Synchronized Target-Tracking Control Under Input Saturation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, , 1-13.	5.9	1
60	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
61	Analysis of the thermal rectification in silicon structure with triangular holes. Molecular Simulation, 2021, 47, 1234-1240.	0.9	0
62	Numerical simulations of the dynamics of Taylor bubble in the presence of small-dispersed bubbles. Heat and Mass Transfer, 2022, 58, 643-655.	1.2	0
63	Thermal resistance and thermal rectification of silicon device with triangular pores: A molecular dynamics study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 413, 127590.	0.9	0
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