

Tao Xu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

217
citations

1478505

6
h-index

1058476

14
g-index

25
all docs

25
docs citations

25
times ranked

223
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Fast structural optimization with frequency constraints by genetic algorithm using adaptive eigenvalue reanalysis methods. Structural and Multidisciplinary Optimization, 2011, 43, 799-810. | 3.5 | 72 |
| 2 | Crashworthiness Design for Bionic Bumper Structures Inspired by Cattail and Bamboo. Applied Bionics and Biomechanics, 2017, 2017, 1-9. | 1.1 | 30 |
| 3 | Multi-objective optimization of gas metal arc welding parameters and sequences for low-carbon steel (Q345D) T-joints. Journal of Iron and Steel Research International, 2017, 24, 544-555. | 2.8 | 28 |
| 4 | Development and Validation of Dummies and Human Models Used in Crash Test. Applied Bionics and Biomechanics, 2018, 2018, 1-12. | 1.1 | 24 |
| 5 | Vibration reanalysis using frequency-shift combined approximations. Structural and Multidisciplinary Optimization, 2011, 44, 235-246. | 3.5 | 10 |
| 6 | A Novel Hybrid Algorithm for Solving Multiobjective Optimization Problems with Engineering Applications. Mathematical Problems in Engineering, 2018, 2018, 1-15. | 1.1 | 7 |
| 7 | Gabor Filter Optimization Design for Iris Texture Analysis. Journal of Bionic Engineering, 2004, 1, 72-78. | 5.0 | 6 |
| 8 | Study on Weight Function of Meshless Method Based on B-spline Wavelet Function. , 2010, , . | | 5 |
| 9 | Numerical Simulation on the Effect of Turbulence Models on Impingement Cooling of Double Chamber Model. Mathematical Problems in Engineering, 2013, 2013, 1-8. | 1.1 | 5 |
| 10 | A reconfigurable quadcopter with foldable rotor arms and a deployable carrier. , 2017, , . | | 5 |
| 11 | Computational Analysis of Droplet Mass and Size Effect on Mist/Air Impingement Cooling Performance. Advances in Mechanical Engineering, 2013, 5, 181856. | 1.6 | 4 |
| 12 | An Efficient Hybrid Algorithm for Multiobjective Optimization Problems with Upper and Lower Bounds in Engineering. Mathematical Problems in Engineering, 2015, 2015, 1-13. | 1.1 | 4 |
| 13 | Using multi-matching system based on a simplified deformable model of the human iris for iris recognition. Journal of Bionic Engineering, 2004, 1, 183-190. | 5.0 | 3 |
| 14 | Optimization of the welding sequence and direction for the side beam of a bogie frame based on the discrete particle swarm algorithm. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1423-1435. | 2.4 | 3 |
| 15 | Dynamic Modelling and Simulation of a Deployable Quadrotor. , 2018, , . | | 3 |
| 16 | Heat Transfer Designed for Bionic Surfaces with Rib Turbulators Inspired by Alopias Branchial Arch in a Simplified Gas Turbine Transition Piece. Applied Sciences (Switzerland), 2018, 8, 820. | 2.5 | 3 |
| 17 | Efficient Procedures of Sensitivity Analysis for Structural Vibration Systems with Repeated Frequencies. Journal of Applied Mathematics, 2013, 2013, 1-7. | 0.9 | 2 |
| 18 | Crashworthiness Design of Frontal Rail Using Strain-Energy-Density and Topology Optimization Approach. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Simulation of Impinging Cooling Performance with Pin Fins and Mist Cooling Adopted in a Simplified Gas Turbine Transition Piece. <i>Advances in Mathematical Physics</i> , 2014, 2014, 1-11. | 0.8 | 1 |
| 20 | Numerical Simulation of Impingement Cooling Double Chamber Model with Cross Coolant Hole Arrangements. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016, 13, 2049-2055. | 0.4 | 1 |
| 21 | Balanced Multiwavelet and Its Application in Image Compressing. , 2006, , . | | 0 |
| 22 | A New Static Reanalysis Method of Topological Modifications with Added Degrees of Freedom. , 2010, , . | | 0 |
| 23 | A Trust Region Interior Point Algorithm for Truss Structural Optimization Problems. , 2011, , . | | 0 |
| 24 | The Extrapolation method for structural static reanalysis of topological modifications with added degrees of freedom. , 2011, , . | | 0 |
| 25 | Bionics and Human Biomechanics Applied in Intelligent Crash Tests of Cars. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-2. | 1.1 | 0 |