# Ning Qin

List of Publications by Year
in descending order



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|---|---|---|---|
| 206 papers | 3,719 citations | 172207 29 h-index | 149479 56 g-index |
| 214 all docs | 214 docs citations | 214 times ranked | 1603 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Wind tunnel and numerical study of a small vertical axis wind turbine. Renewable Energy, 2010, 35, 412-422. | 4.3 | 585 |
| 2 | Fast dynamic grid deformation based on Delaunay graph mapping. Journal of Computational Physics, 2006, 211, 405-423. | 1.9 | 211 |
| 3 | Aerodynamic considerations of blended wing body aircraft. Progress in Aerospace Sciences, 2004, 40, 321-343. | 6.3 | 177 |
| 4 | Large eddy simulation of a hydrogen-fueled scramjet combustor with dual cavity. Acta Astronautica, 2015, 108, 119-128. | 1.7 | 154 |
| 5 | Recent advances in the aerothermodynamics of spiked hypersonic vehicles. Progress in Aerospace Sciences, 2011, 47, 425-449. | 6.3 | 150 |
| 6 | Combustion characteristics in a supersonic combustor with hydrogen injection upstream of cavity flameholder. Proceedings of the Combustion Institute, 2013, 34, 2073-2082. | 2.4 | 146 |
| 7 | Large-Eddy/Reynolds-averaged Navierâ€“Stokes simulation ofÂcombustion oscillations in a cavity-based supersonic combustor. International Journal of Hydrogen Energy, 2013, 38, 5918-5927. | 3.8 | 109 |
| 8 | Drag Reduction Using Aerodisks for Hypersonic Hemispherical Bodies. Journal of Spacecraft and Rockets, 2010, 47, 62-80. | 1.3 | 75 |
| 9 | Characteristics of Oscillations in Supersonic Open Cavity Flows. Flow, Turbulence and Combustion, 2013, 90, 121-142. | 1.4 | 71 |
| 10 | A numerical study of blade thickness and camber effects on vertical axis wind turbines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2012, 226, 867-881. | 0.8 | 69 |
| 11 | Spanwise Lift Distribution for Blended Wing Body Aircraft.. Journal of Aircraft, 2005, 42, 356-365. | 1.7 | 61 |
| 12 | A combined experimental and numerical study of flow structures over three-dimensional shock control bumps. Aerospace Science and Technology, 2008, 12, 436-447. | 2.5 | 56 |
| 13 | Three-dimensional contour bumps for transonic wing drag reduction. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2008, 222, 619-629. | 0.7 | 56 |
| 14 | Surrogate-Based Multi-Objective Aerothermodynamic Design Optimization of Hypersonic Spiked Bodies. AIAA Journal, 2012, 50, 797-810. | 1.5 | 56 |
| 15 | Iterative Response Surface Based Optimization Scheme for Transonic Airfoil Design. Journal of Aircraft, 2007, 44, 365-376. | 1.7 | 54 |
| 16 | Large eddy simulation based studies of jetâ€“cavity interactions in a supersonic flow. Acta Astronautica, 2014, 93, 182-192. | 1.7 | 54 |
| 17 | Metamodels for aerothermodynamic design optimization of hypersonic spiked blunt bodies. Aerospace Science and Technology, 2010, 14, 364-376. | 2.5 | 51 |
| 18 | Intuitive Class/Shape Function Parameterization for Airfoils. AIAA Journal, 2014, 52, 17-25. | 1.5 | 51 |

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|---|---|---|---|
| 19 | Unsteady Flow Simulation and Dynamic Stall Behaviour of Vertical Axis Wind Turbine Blades. Wind Engineering, 2011, 35, 511-527. | 1.1 | 50 |
| 20 | Drag reduction investigation for hypersonic lifting-body vehicles with aerospike and long penetration mode counterflowing jet. Aerospace Science and Technology, 2018, 76, 361-373. | 2.5 | 48 |
| 21 | Variable-Fidelity Aerodynamic Optimization for Turbulent Flows Using a Discrete Adjoint Formulation. AIAA Journal, 2004, 42, 1281-1292. | 1.5 | 47 |
| 22 | Aerodynamic Studies for Blended Wing Body Aircraft. , 2002, , . | | 46 |
| 23 | Forebody shock control devices for drag and aero-heating reduction: A comprehensive survey with a practical perspective. Progress in Aerospace Sciences, 2020, 112, 100585. | 6.3 | 46 |
| 24 | A hybrid LES (Large Eddy Simulation)/assumed sub-grid PDF (Probability Density Function) model for supersonic turbulent combustion. Science China Technological Sciences, 2011, 54, 2694-2707. | 2.0 | 42 |
| 25 | Parallel adjoint-based optimisation of a blended wing body aircraft with shock control bumps. Aeronautical Journal, 2007, 111, 165-174. | 1.1 | 39 |
| 26 | Numerical study of active shock control for transonic aerodynamics. International Journal of Numerical Methods for Heat and Fluid Flow, 2004, 14, 444-466. | 1.6 | 37 |
| 27 | Delaunay graph and radial basis function for fast quality mesh deformation. Journal of Computational Physics, 2015, 294, 149-172. | 1.9 | 36 |
| 28 | Development of a smoothed particle hydrodynamics method and its application to aircraft ditching simulations. Aerospace Science and Technology, 2017, 66, 28-43. | 2.5 | 34 |
| 29 | A matrix-free preconditioned Newton/GMRES method for unsteady Navier-Stokes solutions. International Journal for Numerical Methods in Fluids, 2000, 33, 223-248. | 0.9 | 32 |
| 30 | Numerical study on supersonic mixing and combustion with hydrogen injection upstream of a cavity flameholder. Heat and Mass Transfer, 2014, 50, 211-223. | 1.2 | 31 |
| 31 | Trailing-edge flow control for wind turbine performance and load control. Renewable Energy, 2017, 105, 419-435. | 4.3 | 31 |
| 32 | Novel Compressor Blade Shaping Through a Free-Form Method. Journal of Turbomachinery, 2017, 139, . | 0.9 | 31 |
| 33 | Unsteady Flow Simulation and Dynamic Stall Around Vertical Axis Wind Turbine Blades. , 2008, , . | | 29 |
| 34 | Hybrid Reynolds-averaged Navier-Stokes/large-eddy simulation of jet mixing in a supersonic crossflow. Science China Technological Sciences, 2013, 56, 1435-1448. | 2.0 | 29 |
| 35 | Study of the effects of wing sweep on the aerodynamic performance of a blended wing body aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2007, 221, 47-55. | 0.7 | 26 |
| 36 | Spike Effects on Drag Reduction for Hypersonic Lifting Body. Journal of Spacecraft and Rockets, 2017, 54, 1185-1195. | 1.3 | 26 |

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| 37 | Airfoil gust load alleviation by circulation control. Aerospace Science and Technology, 2020, 98, 105622. | 2.5 | 25 |
| 38 | Active Transonic Aerofoil Design Optimization Using Robust Multiobjective Evolutionary Algorithms. Journal of Aircraft, 2011, 48, 1084-1094. | 1.7 | 24 |
| 39 | Numerical investigation of aeroheating characteristics of spiked blunt bodies at Mach six flight conditions. Aeronautical Journal, 2011, 115, 377-386. | 1.1 | 23 |
| 40 | Three-Dimensional Laminar-Separation Bubble on a Cambered Thin Wing at Low Reynolds Numbers. Journal of Aircraft, 2013, 50, 152-163. | 1.7 | 23 |
| 41 | Multiquadric Finite Difference (MQ-FD) Method and its Application. Advances in Applied Mathematics and Mechanics, 2009, 1, 615-638. | 0.7 | 23 |
| 42 | Simulations of combustion with normal and angled hydrogen injection in a cavity-based supersonic combustor. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 530-541. | 0.7 | 22 |
| 43 | Behavior of Detached-Eddy Simulations for Mild Airfoil Trailing-Edge Separation. Journal of Aircraft, 2011, 48, 193-202. | 1.7 | 21 |
| 44 | A dynamic pressure-sink method for improving large eddy simulation and hybrid Reynolds-averaged Navierâ€“Stokes/large eddy simulation of wall-bounded flows. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 1107-1120. | 0.7 | 20 |
| 45 | Investigation of flow asymmetry around axi-symmetric spiked blunt bodies in hypersonic speeds. Aeronautical Journal, 2014, 118, 169-179. | 1.1 | 20 |
| 46 | Wake Vortex Model for Real-Time Flight Simulation Based on Large Eddy Simulation. Journal of Aircraft, 2007, 44, 467-475. | 1.7 | 16 |
| 47 | Experimental and numerical investigation of cavity-based supersonic flow and combustion. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 781-798. | 0.7 | 16 |
| 48 | Using Shock Control Bumps to Improve Transonic Fan/Compressor Blade Performance. Journal of Turbomachinery, 2019, 141, . | 0.9 | 16 |
| 49 | Aerofoil profile and sweep optimisation for a blended wing-body aircraft using a discrete adjoint method. Aeronautical Journal, 2006, 110, 589-604. | 1.1 | 15 |
| 50 | Design Optimization of Casing Grooves Using Zipper Layer Meshing. Journal of Turbomachinery, 2014, 136, . | 0.9 | 15 |
| 51 | A passive scalar-based method for numerical combustion. International Journal of Hydrogen Energy, 2015, 40, 10658-10661. | 3.8 | 15 |
| 52 | Î±-GMRES: A new parallelizable iterative solver for large sparse non-symmetric linear systems arising from CFD. International Journal for Numerical Methods in Fluids, 1992, 15, 613-623. | 0.9 | 14 |
| 53 | Detached eddy simulation of a synthetic jet for flow control. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2008, 222, 373-380. | 0.7 | 14 |
| 54 | Calculation of pitch damping coefficients for projectiles. , 1997, , . | | 13 |

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| 55 | A solution adaptive simulation of compressible multiâ€fluid flows with general equation of state. International Journal for Numerical Methods in Fluids, 2011, 67, 616-637. | 0.9 | 13 |
| 56 | Shock control bump optimization for a low sweep supercritical wing. Science China Technological Sciences, 2013, 56, 2385-2390. | 2.0 | 13 |
| 57 | DETACHED-EDDY SIMULATION FOR SYNTHETIC JETS WITH MOVING BOUNDARIES. Modern Physics Letters B, 2005, 19, 1429-1434. | 1.0 | 12 |
| 58 | Flow feature aligned grid adaptation. International Journal for Numerical Methods in Engineering, 2006, 67, 787-814. | 1.5 | 12 |
| 59 | Zipper layer method for linking two dissimilar structured meshes. Journal of Computational Physics, 2013, 255, 130-148. | 1.9 | 12 |
| 60 | Alleviation of Shock-Wave Effects on a Highly Loaded Axial Compressor Through Novel Blade Shaping. , 2016, , . | | 12 |
| 61 | Deformable Overset Grid for Multibody Unsteady Flow Simulation. AIAA Journal, 2016, 54, 2392-2406. | 1.5 | 12 |
| 62 | Heat reduction mechanism of hypersonic spiked blunt body with installation angle at large angle of attack. Acta Astronautica, 2019, 164, 268-276. | 1.7 | 12 |
| 63 | Gust load alleviation by normal microjet. Aerospace Science and Technology, 2021, 117, 106919. | 2.5 | 12 |
| 64 | Active control of transonic aerodynamics using suction, blowing, bumps and synthetic jets. , 2000, , . | | 11 |
| 65 | Hypersonic Performance of a Lifting Elliptic Cone with and Without Strakes. Journal of Spacecraft and Rockets, 2000, 37, 21-27. | 1.3 | 10 |
| 66 | Finite Volume 3DNS and PNS Solutions of Hypersonic Viscous Flow Around a Delta Wing using Osherâ€™s Flux Difference Splitting. , 1991, , 947-959. | | 10 |
| 67 | Calculation of Pitch Damping for a Flared Projectile. Journal of Spacecraft and Rockets, 1997, 34, 566-568. | 1.3 | 9 |
| 68 | Surface suction on aerofoil aerodynamic characteristics at transonic speeds. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 1998, 212, 339-351. | 0.7 | 9 |
| 69 | AN EFFICIENT MOVING GRID ALGORITHM FOR LARGE DEFORMATION. Modern Physics Letters B, 2005, 19, 1499-1502. | 1.0 | 9 |
| 70 | Wind Tunnel and Numerical Study of a Small Vertical Axis Wind Turbine. , 2008, , . | | 9 |
| 71 | Shock Control of a Low-Sweep Transonic Laminar Flow Wing. AIAA Journal, 2019, 57, 2408-2420. | 1.5 | 9 |
| 72 | A matrix-free preconditioned Krylov-subspace method for the PNS equations. , 1998, , . | | 8 |

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| 73 | The application of a parabolized Navier-Stokes solver to some hypersonic flow problems. , 2001, , . | | 8 |
| 74 | Effects of pitching rotation on aerodynamics of tandem flapping wing sections of a hovering dragonfly. Aeronautical Journal, 2010, 114, 699-710. | 1.1 | 8 |
| 75 | Quantitative comparison of 2D and 3D shock control bumps for drag reduction on transonic wings. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2344-2359. | 0.7 | 8 |
| 76 | Drag reduction in wall-bounded turbulence by synthetic jet sheets. Journal of Fluid Mechanics, 2022, 941, . | 1.4 | 8 |
| 77 | Computational study of supersonic lateral jet flow interactions. Journal of Spacecraft and Rockets, 1996, 33, 651-656. | 1.3 | 7 |
| 78 | Multigrid acceleration of a preconditioned GMRES implicit PNS solver. , 1999, , . | | 7 |
| 79 | Non-inertial multiblock Navier-Stokes calculation for hovering rotor flowfields using relative velocity approach. Aeronautical Journal, 2001, 105, 379-389. | 1.1 | 7 |
| 80 | Dynamic Grid and Unsteady Boundary Conditions for Synthetic Jets Flow. , 2005, , . | | 7 |
| 81 | Comparison of RANS, DES and DDES Results for ONERA M-6 Wing at Transonic Flow Speed Using an In-House Parallel Code. , 2011, , . | | 7 |
| 82 | Using Surface Sensitivity from Mesh Adjoint for Transonic Wing Drag Reduction. AIAA Journal, 2017, 55, 818-831. | 1.5 | 7 |
| 83 | Nonconsistent Mesh Movement and Sensitivity Calculation on Adjoint Aerodynamic Optimization. AIAA Journal, 2018, 56, 1541-1553. | 1.5 | 7 |
| 84 | Study of flow interactions due to a supersonic lateral jet using high resolution Navier-Stokes solutions. , 1995, , . | | 6 |
| 85 | Massively separated flows due to transverse sonic jet in laminar hypersonic stream. Shock Waves, 1999, 9, 87-93. | 1.0 | 6 |
| 86 | A numerical investigation of the flows in and around plug nozzle configurations. , 2001, , . | | 6 |
| 87 | Elimination AD applied to Jacobian assembly for an implicit compressible CFD solver. International Journal for Numerical Methods in Fluids, 2005, 47, 1315-1321. | 0.9 | 6 |
| 88 | A General Profile Parameterization of Hydrodynamic Journal Bearings for Efficient Shape Optimization. Tribology Transactions, 2009, 53, 117-126. | 1.1 | 6 |
| 89 | Hybrid RANS/LES for active flow control. Aircraft Engineering and Aerospace Technology, 2014, 86, 179-187. | 0.8 | 6 |
| 90 | Modelling roughness effects for transitional low Reynolds number aerofoil flows. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 280-289. | 0.7 | 6 |

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| 91 | Uncertainty analysis and robust shape optimisation for laminar flow aerofoils. Aeronautical Journal, 2021, 125, 365-388. | 1.1 | 6 |
| 92 | Gust load alleviation on an aircraft wing by trailing edge Circulation Control. Journal of Fluids and Structures, 2021, 107, 103407. | 1.5 | 6 |
| 93 | A Numerical Study of Transonic Flow in a Wind Tunnel over 3D Bumps. , 2005, , . | | 5 |
| 94 | Adjoint-Based Optimisation of a Blended Wing Body Aircraft with Shock Control Bumps. , 2007, , . | | 5 |
| 95 | Buffer Layer Method for Linking Two Non-Matching Multi-block Structured Grids. , 2009, , . | | 5 |
| 96 | Using Mesh Adjoint for Shock Bump Deployment and Optimisation on Transonic Wings. , 2015, , . | | 5 |
| 97 | Combined Hessian and Adjoint Error-Based Anisotropic Mesh Adaptation for Turbomachinery Flows. , 2017, , . | | 5 |
| 98 | Newton-like methods for fast high resolution simulation of hypersonic viscous flows. Computing Systems in Engineering: an International Journal, 1992, 3, 429-435. | 0.5 | 4 |
| 99 | Grid Adaption for Shock/Turbulent Boundary-Layer Interaction. AIAA Journal, 1999, 37, 1129-1131. | 1.5 | 4 |
| 100 | Unsteady flow around helicopter rotor blade sections in forward flight. Aeronautical Journal, 1999, 103, 35-44. | 1.1 | 4 |
| 101 | LES with Numerical Dissipation for Aircraft Wake Vortices. , 2006, , . | | 4 |
| 102 | Development of a local MQ-DQ-based stencil adaptive method and its application to solve incompressible Navierâ€“Stokes equations. International Journal for Numerical Methods in Fluids, 2007, 55, 367-386. | 0.9 | 4 |
| 103 | Fluid-Structure Interaction of HALE Wing Configuration with an Efficient Moving Grid Method. , 2008, , . | | 4 |
| 104 | Metamodels for Aerothermodynamic Design Optimization of Hypersonic Spiked Blunt Bodies. , 2010, , . | | 4 |
| 105 | Design Optimisation of Casing Grooves Using the Zipper Layer Meshing Method. , 2011, , . | | 4 |
| 106 | Planform Effects for Low-Reynolds-Number Thin Wings with Positive and Reflex Cambers. Journal of Aircraft, 2013, 50, 952-964. | 1.7 | 4 |
| 107 | Comparison of turbulent flow through hexagram and hexagon orifices in circular pipes using large-eddy simulation. Fluid Dynamics Research, 2016, 48, 021408. | 0.6 | 4 |
| 108 | Using A Fast and Explicit Mesh Movement Method To Efficiently Compute Mesh Sensitivity. , 2016, , . | | 4 |

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| 109 | Novel Method to Calculate Vibrational Thermal Conduction in Hypersonic Nonequilibrium Flow. Journal of Thermophysics and Heat Transfer, 2016, 30, 12-24. | 0.9 | 4 |
| 110 | Delaunay Graph Based Inverse Distance Weighting for Fast Dynamic Meshing. Communications in Computational Physics, 2017, 21, 1282-1309. | 0.7 | 4 |
| 111 | The Impact of Realistic Casing Geometries and Clearances on Fan Blade Tip Aerodynamics. Journal of Turbomachinery, 2018, 140, . | 0.9 | 4 |
| 112 | Vortex-Generating Shock Control Bumps for Robust Drag Reduction at Transonic Speeds. AIAA Journal, 2021, 59, 3900-3909. | 1.5 | 4 |
| 113 | Structurally Constrained Aerodynamic Adjoint Optimisation of Highly Loaded Compressor Blades. , 2021, , . | | 4 |
| 114 | Parameterizing Airfoil Shape Using Aerodynamic Performance Parameters. AIAA Journal, 2022, 60, 4399-4412. | 1.5 | 4 |
| 115 | Linear and non-linear turbulence models for shock-wave/turbulent boundary-layer interaction using a strongly coupled approach. , 1998, , . | | 3 |
| 116 | Real-Time Model of Wake Vortices Based on Large Eddy Simulation Datasets. , 2005, , . | | 3 |
| 117 | BILU implicit multiblock Euler/Navierâ€“Stokes simulation for rotor tip vortex and wake convection. International Journal for Numerical Methods in Fluids, 2007, 55, 509-536. | 0.9 | 3 |
| 118 | Biologically Inspired Shape Changing Aerodynamic Profiles and their Effect on Flight Performance of Future Aircraft. Advances in Science and Technology, 0, , . | 0.2 | 3 |
| 119 | A MUSCL and WENO - PNS Approach for Vortex Dominated Flowfields. , 2010, , . | | 3 |
| 120 | Using the Medial Axis to Represent Complex Flow Structures for Flow Feature-Aligned Mesh Generation. , 2013, , . | | 3 |
| 121 | Aerodynamic performance benefits of utilising camber morphing wings for unmanned air vehicles. Aeronautical Journal, 2013, 117, 315-327. | 1.1 | 3 |
| 122 | The influence of transition onset location on the performance of shock control bumps. Aeronautical Journal, 2013, 117, 1037-1051. | 1.1 | 3 |
| 123 | Using the medial axis to represent flow features for feature-aligned unstructured quad-dominant mesh generation. Computers and Fluids, 2014, 102, 1-14. | 1.3 | 3 |
| 124 | Using surface sensitivity from mesh adjoint solution for transonic wing drag reduction. , 2016, , . | | 3 |
| 125 | Robustness of Natural Laminar Flow Airfoil Drag Optimization to Transition Amplification Factor. , 2017, , . | | 3 |
| 126 | Quantification and Multi-point Optimization of Natural Laminar Flow Airfoil Robustness to Transition Amplification Factor. , 2018, , . | | 3 |

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| 127 | Quantification of Airfoil Aerodynamic Uncertainty due to Pressure-Sensitive Paint Thickness. AIAA Journal, 2020, 58, 1432-1440. | 1.5 | 3 |
| 128 | Influence of Spanwise Load Distribution on Blended-Wingâ€“Body Performance at Transonic Speed. Journal of Aircraft, 2020, 57, 408-417. | 1.7 | 3 |
| 129 | Balancing Laminar Extension and Wave Drag for Transonic Swept Wings. AIAA Journal, 2021, 59, 1660-1672. | 1.5 | 3 |
| 130 | Drag Reduction for Transonic Wings Combining Reduced Wing Sweep with Shock Control. , 2012, , 45-53. | | 3 |
| 131 | Adaptive Synchronization of Two Different Hyperchaotic Systems with Unknown Parameters. , 2009, , . | | 3 |
| 132 | Exploring Topology Optimization for High Pressure Turbine Blade Tips. Journal of Turbomachinery, 2022, 144, . | 0.9 | 3 |
| 133 | Simulation of hypersonic viscous flows around a cone-delta-wing combination by an implicit method with multigrid acceleration. , 1986, , 528-532. | | 2 |
| 134 | Computational Prediction of Pitch Damping for Supersonic Blunt Cones. Journal of Spacecraft and Rockets, 1998, 35, 849-852. | 1.3 | 2 |
| 135 | Effects of compressibility and roughness for turbulence modelling of hypersonic ramp flow. , 1999, , . | | 2 |
| 136 | Comparison of Unsteady Laminar and DES Solutions of Synthetic Jet Flow. , 2006, , . | | 2 |
| 137 | Numerical Simulation of Flexible Flapping Airfoil Propulsion using Dynamic Mesh at Low Reymolds Numbers. , 2008, , . | | 2 |
| 138 | 2-D Numerical Analysis of a VAWT Wind Farm for Different Configurations. , 2011, , . | | 2 |
| 139 | Kriging-algorithm-based Aerodynamic Model for Flush Airdata System. Procedia Engineering, 2015, 99, 507-514. | 1.2 | 2 |
| 140 | Geometric Representation of Flow Features Using the Medial Axis for Mesh Generation. AIAA Journal, 2015, 53, 246-259. | 1.5 | 2 |
| 141 | FAST DYNAMIC MESHING METHOD BASED ON DELAUNAY GRAPH AND INVERSE DISTANCE WEIGHTING INTERPOLATION. International Journal of Modern Physics Conference Series, 2016, 42, 1660166. | 0.7 | 2 |
| 142 | Efficient Method to Eliminate Mesh Sensitivity in Adjoint-Based Optimization. AIAA Journal, 2017, 55, 1140-1151. | 1.5 | 2 |
| 143 | Efficient Adjoint-Based Mesh Adaptation Applied to Turbo-Machinery Flows. , 2018, , . | | 2 |
| 144 | Using Shock Control Bumps to Improve Transonic Fan/Compressor Blade Performance. , 2018, , . | | 2 |

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| 145 | Using the Reynolds Stress Model to Predict Shock-Induced Separation on Transport Aircraft. Journal of Aircraft, 2019, 56, 583-590. | 1.7 | 2 |
| 146 | Laminar separation bubble dynamics and its effects on thin airfoil performance during pitching-up motion. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 2479-2492. | 0.7 | 2 |
| 147 | DES Applied to an Isolated Synthetic Jet Flow. , 2008, , 252-260. | | 2 |
| 148 | Sparse Quasi- Newton Method for Navier- Stokes Solution. , 1990, , 474-483. | | 2 |
| 149 | BILU Implicit Multiblock Euler/Navier-Stokes Simulation for Helicopter Rotor Vortical Flow. , 2005, , . | | 1 |
| 150 | Application of Engineering Transition Models to an Isolated Helicopter Rotor in Hovering Flight. , 2005, , . | | 1 |
| 151 | Study of CFD simulation of a 3-D wind turbine. , 2011, , . | | 1 |
| 152 | Adaptive Wing/Aerofoil Design Optimisation Using MOEA Coupled to Uncertainty Design Method. , 2011, , . | | 1 |
| 153 | Delaunay Graph Mapping-Based Mesh Deformation for Simulation of a Spanwise Rigid and flexible Flapping NACA0012 Wing Using DES with Parallel Implementation. , 2011, , . | | 1 |
| 154 | A NEW EFFICIENT CONTROL METHOD FOR BLENDED WING BODY. International Journal of Modern Physics Conference Series, 2012, 19, 396-405. | 0.7 | 1 |
| 155 | Balancing Destruction and Production in S-A Model-Based Hybrid RANS-LES for Flow around an Aerofoil with Mild Separation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 379-388. | 0.2 | 1 |
| 156 | Adjoint Based Aerodynamic Optimisation of a UCAV. , 2013, , . | | 1 |
| 157 | Local class shape transformation parameterization (l-CST) for airfoils. , 2017, , . | | 1 |
| 158 | Delaunay graph-based moving mesh method with damping functions. Chinese Journal of Aeronautics, 2018, 31, 2093-2103. | 2.8 | 1 |
| 159 | An investigation of ship airwake over the frigate afterbody. International Journal of Modern Physics B, 2020, 34, 2040069. | 1.0 | 1 |
| 160 | Anisotropic adjoint sensitivity-based mesh movement for industrial applications. Computers and Fluids, 2021, 221, 104929. | 1.3 | 1 |
| 161 | Benefit Assessment of Low-Sweep Transonic Natural Laminar Flow Wing for Commercial Aircraft. Journal of Aircraft, 0, , 1-8. | 1.7 | 1 |
| 162 | Quantification of airfoil aerodynamics due to geometric uncertainties based on adjoint method. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2021, 44, 618-626. | 0.6 | 1 |

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| 163 | Multidisciplinary Optimisation of High Pressure Turbine Blade Tip With Turbine Inlet Capacity and Stage Reaction Constraints. , 2021, , . | | 1 |
| 164 | PNS solution using sparse Quasi-Newton method for fast convergence. , 1990, , 453-454. | | 1 |
| 165 | Computational prediction of pitch damping for high Mach number blunt projectiles. , 1998, , . | | 1 |
| 166 | Biologically Inspired Shape Changing Aerodynamic Profiles and their Effect on Flight Performance of Future Aircraft. Advances in Science and Technology, 0, , 534-544. | 0.2 | 1 |
| 167 | Using shock control bumps to improve engine intake performance and operability. Aeronautical Journal, 2020, 124, 1913-1944. | 1.1 | 1 |
| 168 | The Influence of Parameterisation Setup on the Constrained Adjoint Optimisation of Transonic Fan Blades. , 2020, , . | | 1 |
| 169 | Hybrid Mesh Deformation for Aerodynamic-Structural Coupled Adjoint Optimization. AIAA Journal, 2022, 60, 3438-3451. | 1.5 | 1 |
| 170 | Massively separated flows due to transverse sonic jet in hypersonic laminar stream. , 1996, , . | | 0 |
| 171 | Computational and experimental investigation of hypersonic performance of a lifting elliptic cone with and without strakes. , 1997, , . | | 0 |
| 172 | Grid adaptation for shock/turbulent boundary layer interaction. , 1998, , . | | 0 |
| 173 | Experience with the Osher Scheme for Applied Aerodynamics. , 2001, , 707-715. | | 0 |
| 174 | An eddy-viscosity limited algebraic stress model for shock-boundary-layer interaction. Aeronautical Journal, 2001, 105, 105-118. | 1.1 | 0 |
| 175 | Study of the aerodynamics of in-plane motion. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2001, 215, 89-104. | 0.7 | 0 |
| 176 | Variable-Fidelity Aerodynamic Optimization for Turbulent Flows Using a Discrete Adjoint Formulation. , 2004, , . | | 0 |
| 177 | Approaching morphing wing concepts on the basis of micro aerial vehicles. , 2007, , . | | 0 |
| 178 | Three Dimensional Adaptive Method for Compressible Multi-Fluids Flows. , 2010, , . | | 0 |
| 179 | Quadrilateral Cell-Based Anisotropic Adaptive Solution for the Euler Equations. Communications in Computational Physics, 2011, 9, 68-88. | 0.7 | 0 |
| 180 | Comparison of Hybrid RANS-LES Methods for Massively Separated Flows. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 257-266. | 0.2 | 0 |

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| 181 | Prediction of Transition Location and Its Effects on Shock Bump Control on a Natural Laminar Flow Aerofoil. , 2012, , 251-256. | | 0 |
| 182 | Numerical Computation of Compressible and Viscous FlowR. W. MacCormack American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Suite 500, Reston, VA 20191-4344, USA. 2014. Distributed by Transatlantic Publishers Group, 97 Greenham Road, London, N10 1LN, UK (Tel: 020-8815) Tj ETQq0 0 0 rgBT /Overlock 10 | 0.1 | 0 |
| 183 | Fluid Structure Interaction on a Flexible Micro Air Vehicle. , 2015, , . | | 0 |
| 184 | Deformable Overset Grid for Unsteady Aerodynamic Simulation. , 2016, , . | | 0 |
| 185 | Effect of Non-Consistent Mesh Movements and Sensitivities on a Discrete Adjoint Based Aerodynamic Optimization. , 2017, , . | | 0 |
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