

# Meelan M Choudhari

## List of Publications by Citations

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ext. citations

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L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 182 | Secondary instability of crossflow vortices and swept-wing boundary-layer transition. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 399, 85-115                              | 3.7 | 174       |
| 181 | Unsteady Flow Computations of a Slat with a Blunt Trailing Edge. <i>AIAA Journal</i> , <b>2000</b> , 38, 2050-2058   | 2.1 | 110       |
| 180 | Roughness-induced generation of crossflow vortices in three-dimensional boundary layers. <i>Theoretical and Computational Fluid Dynamics</i> , <b>1994</b> , 6, 1-30             | 2.3 | 77        |
| 179 | Effect of Three-Dimensional Shear-Layer Structures on Slat Cove Unsteadiness. <i>AIAA Journal</i> , <b>2007</b> , 45, 2174-2186  | 2.1 | 74        |
| 178 | Numerical simulations of boundary-layer bypass transition due to high-amplitude free-stream turbulence. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 613, 135-169           | 3.7 | 65        |
| 177 | A finite Reynolds-number approach for the prediction of boundary-layer receptivity in localized regions. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1992</b> , 4, 2495-2514 |     | 62        |
| 176 | Tandem Cylinder Noise Predictions <b>2007</b> ,  |     | 57        |
| 175 | Characterization of Unsteady Flow Structures Near Leading-Edge Slat: Part I: PIV Measurements <b>2004</b> ,  |     | 56        |
| 174 | Transition Analysis for the HIFiRE-5 Vehicle <b>2009</b> ,   |     | 55        |
| 173 | Characterization of Unsteady Flow Structures Around Tandem Cylinders for Component Interaction Studies in Airframe Noise <b>2005</b> ,   |     | 55        |
| 172 | Measurements of Unsteady Wake Interference Between Tandem Cylinders <b>2006</b> ,  |     | 55        |
| 171 | Numerical study of acoustic radiation due to a supersonic turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 746, 165-192                               | 3.7 | 52        |
| 170 | Pressure Fluctuations induced by a Hypersonic Turbulent Boundary Layer. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 804, 578-607   | 3.7 | 52        |
| 169 | Unsteady Flowfield Around Tandem Cylinders as Prototype Component Interaction in Airframe Noise. <i>AIAA Journal</i> , <b>2007</b> , 45, 1930-1941                               | 2.1 | 51        |
| 168 | Direct Numerical Simulation Database for Hypersonic Turbulent Boundary Layers. <i>AIAA Journal</i> , <b>2018</b> , 56, 4297-4311   | 2.1 | 44        |
| 167 | Experimental Study on Slat Noise from 30P30N Three-Element High-Lift Airfoil at JAXA Hard-Wall Lowspeed Wind Tunnel <b>2014</b> ,  |     | 42        |
| 166 | LLaminar-Turbulent Transition behind Discrete Roughness Elements in a High-Speed Boundary Layer <b>2010</b> ,  |     | 42        |

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| 165 | Noise Radiation from a Leading-Edge Slat <b>2009</b> ,   |     | 42 |
| 164 | Stability Analysis for HIFiRE Experiments <b>2012</b> ,  |     | 39 |
| 163 | Analysis of Instabilities in Non-Axisymmetric Hypersonic Boundary Layers over Cones <b>2010</b> ,  |     | 39 |
| 162 | Linear and nonlinear instabilities of a Blasius boundary layer perturbed by streamwise vortices. Part 2. Intermittent instability induced by long-wavelength Klebanoff modes. <i>Journal of Fluid Mechanics</i> , <b>2003</b> , 483, 249-286 | 3.7 | 39 |
| 161 | Characterization of Unsteady Flow Structures Near Leading-Edge Slat: Part II: 2D Computations <b>2004</b> ,  |     | 39 |
| 160 | Spatially developing secondary instabilities in compressible swept airfoil boundary layers. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2011</b> , 25, 65-84  | 2.3 | 38 |
| 159 | HIFiRE-5 Flight Vehicle Design <b>2010</b> ,   |     | 37 |
| 158 | Measurements of the Flowfield Interaction Between Tandem Cylinders <b>2009</b> ,   |     | 37 |
| 157 | Boundary-layer receptivity due to distributed surface imperfections of a deterministic or random nature. <i>Theoretical and Computational Fluid Dynamics</i> , <b>1993</b> , 4, 101-117  | 2.3 | 36 |
| 156 | Theoretical prediction of boundary-layer receptivity <b>1994</b> ,   |     | 35 |
| 155 | Roughness-Induced Transient Growth <b>2005</b> ,   |     | 34 |
| 154 | Assessment of Slat Noise Predictions for 30P30N High-Lift Configuration from BANC-III Workshop <b>2015</b> ,   |     | 33 |
| 153 | An Experimental Investigation of the 30P30N Multi-Element High-Lift Airfoil <b>2014</b> ,  |     | 33 |
| 152 | Preliminary Analysis of Acoustic Measurements from the NASA-Gulfstream Airframe Noise Flight Test <b>2008</b> ,  |     | 33 |
| 151 | Slat-Cove Noise Modeling: A Posteriori Analysis of Unsteady RANS Simulations <b>2002</b> ,   |     | 33 |
| 150 | Slat Cove Unsteadiness: Effect of 3D Flow Structures <b>2006</b> ,   |     | 32 |
| 149 | Numerical Simulation of Roughness-Induced Transient Growth in a Laminar Boundary Layer <b>2004</b> ,   |     | 32 |
| 148 | Numerical simulations of boundary-layer transition induced by a cylinder wake. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 547, 413  | 3.7 | 29 |

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| 147 | High-frequency instabilities of stationary crossflow vortices in a hypersonic boundary layer. <i>Physical Review Fluids</i> , <b>2016</b> , 1,            | 2.8 | 29 |
| 146 | Effect of wall cooling on boundary-layer-induced pressure fluctuations at Mach 6. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 822, 5-30             | 3.7 | 28 |
| 145 | Novel Approach for Reducing Rotor Tip-Clearance-Induced Noise in Turbofan Engines. <i>AIAA Journal</i> , <b>2002</b> , 40, 1518-1528                      | 2.1 | 26 |
| 144 | Transition Analysis for the HIFiRe-1 Flight Experiment <b>2011</b> ,  |     | 24 |
| 143 | Stability Analysis of Roughness Array Wake in a High-Speed Boundary Layer <b>2009</b> ,   |     | 24 |
| 142 | Aerodynamics of a Gulfstream G550 Nose Landing Gear Model <b>2009</b> ,   |     | 24 |
| 141 | Boundary layer receptivity phenomena in three-dimensional and high-speed boundary layers <b>1990</b> ,  |     | 23 |
| 140 | Wake Instabilities behind Discrete Roughness Elements in High Speed Boundary Layers <b>2013</b> ,   |     | 22 |
| 139 | Algebraic/transcendental disturbance growth behind a row of roughness elements. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 668, 236-266            | 3.7 | 22 |
| 138 | Nose-Tip Bluntness Effects on Transition at Hypersonic Speeds. <i>Journal of Spacecraft and Rockets</i> , <b>2019</b> , 56, 369-387                       | 1.5 | 22 |
| 137 | Development and Breakdown of Gortler Vortices in High Speed Boundary Layers <b>2010</b> ,   |     | 21 |
| 136 | Characterization of Freestream Disturbances in Conventional Hypersonic Wind Tunnels. <i>Journal of Spacecraft and Rockets</i> , <b>2019</b> , 56, 357-368 | 1.5 | 21 |
| 135 | Transition Analysis for the Ascent Phase of HIFiRe-1 Flight Experiment. <i>Journal of Spacecraft and Rockets</i> , <b>2015</b> , 52, 1283-1293            | 1.5 | 20 |
| 134 | Optimal Growth in Hypersonic Boundary Layers. <i>AIAA Journal</i> , <b>2016</b> , 54, 3050-3061   | 2.1 | 20 |
| 133 | Analysis of Crossflow Transition Flight Experiment aboard Pegasus Launch Vehicle (Invited) <b>2007</b> ,  |     | 20 |
| 132 | Numerical Simulations of Laminar-Turbulent Transition In Supersonic Boundary Layer <b>2006</b> ,  |     | 20 |
| 131 | Instability wave-streak interactions in a supersonic boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 831, 524-553                       | 3.7 | 19 |
| 130 | The long range persistence of wakes behind a row of roughness elements. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 644, 123-163                    | 3.7 | 19 |

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|-----|--|-----|----|
| 129 | Synergism of flow and noise control technologies. <i>Progress in Aerospace Sciences</i> , <b>2005</b> , 41, 363-417                            | 8.8 | 19 |
| 128 | Nonlinear development and secondary instability of traveling crossflow vortices. <i>Physics of Fluids</i> , <b>2014</b> , 26, 064104           | 4.4 | 18 |
| 127 | Numerical Computations of Hypersonic Boundary-Layer over Surface Irregularities <b>2010</b> ,  |     | 18 |
| 126 | Hypersonic viscous flow over large roughness elements. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2011</b> , 25, 85-104          | 2.3 | 17 |
| 125 | Computational aeroacoustic analysis of slat trailing-edge flow <b>1999</b> ,   |     | 17 |
| 124 | Mechanism for frustum transition over blunt cones at hypersonic speeds. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 894,                 | 3.7 | 16 |
| 123 | Investigation of High-Lift Flowfield of an Energy Efficient Transport Wing. <i>Journal of Aircraft</i> , <b>2000</b> , 37, 45-52               | 1.6 | 16 |
| 122 | Nonmodal Growth of Traveling Waves on Blunt Cones at Hypersonic Speeds. <i>AIAA Journal</i> , <b>2019</b> , 57, 4738-4749                      | 2.1 | 15 |
| 121 | Effects of injection on the instability of boundary layers over hypersonic configurations. <i>Physics of Fluids</i> , <b>2013</b> , 25, 104107 | 4.4 | 15 |
| 120 | Computational Modeling of Roughness-Based Laminar Flow Control on a Subsonic Swept Wing. <i>AIAA Journal</i> , <b>2011</b> , 49, 520-529       | 2.1 | 15 |
| 119 | Spatially Developing Secondary Instabilities and Attachment Line Instability in Supersonic Boundary Layers <b>2008</b> ,                       |     | 15 |
| 118 | Boundary-Layer Receptivity and Integrated Transition Prediction <b>2005</b> ,  |     | 15 |
| 117 | A comparison of boundary layer receptivity mechanisms <b>1988</b> ,  |     | 15 |
| 116 | Transition due to streamwise streaks in a supersonic flat plate boundary layer. <i>Physical Review Fluids</i> , <b>2016</b> , 1,               | 2.8 | 15 |
| 115 | CFD-CAA Coupled Calculations of a Tandem Cylinder Configuration to Assess Facility Installation Effects <b>2011</b> ,                          |     | 14 |
| 114 | Effects of Cavities and Protuberances on Transition over Hypersonic Vehicles <b>2011</b> ,   |     | 14 |
| 113 | Computational Analysis of the G-III Laminar Flow Glove <b>2011</b> ,   |     | 14 |
| 112 | Unsteady Flowfield Around Tandem Cylinders as Prototype for Component Interaction in Airframe Noise <b>2005</b> ,                              |     | 14 |

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|-----|---|-----|----|
| 111 | Simulations of Bluff Body Flow Interaction for Noise Source Modeling <b>2006,</b>   |     | 14 |
| 110 | Towards transition modelling for supersonic laminar flow control based on spanwise periodic roughness elements. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2005</b> , 363, 1079-96 | 3   | 14 |
| 109 | Blunt-body paradox and transient growth on a hypersonic spherical forebody. <i>Physical Review Fluids</i> , <b>2017</b> , 2,  | 2.8 | 14 |
| 108 | Nonlinear Excitation of Inviscid Stationary Vortex Instabilities in a Boundary-Layer Flow. <i>Fluid Mechanics and Its Applications</i> , <b>1996</b> , 409-422  | 0.2 | 14 |
| 107 | Computational Study of Porous Treatment for an Altered Flap Side-Edge Flowfield <b>2003,</b>  |     | 13 |
| 106 | Integrated Transition Prediction: A Case Study in Supersonic Laminar Flow Control <b>2003,</b>  |     | 13 |
| 105 | The non-reflective interface: an innovative forcing technique for computational acoustic hybrid methods. <i>International Journal for Numerical Methods in Fluids</i> , <b>2016</b> , 81, 22-44   | 1.9 | 13 |
| 104 | An Experimental Study of Roughness-Induced Instabilities in a Supersonic Boundary Layer <b>2014,</b>  |     | 12 |
| 103 | The Effect of Cross Flow on Slat Noise <b>2010,</b>   |     | 12 |
| 102 | Aeroacoustic Simulations of Tandem Cylinders with Subcritical Spacing <b>2008,</b>  |     | 12 |
| 101 | Transition Analysis for the Mars Science Laboratory Entry Vehicle <b>2009,</b>  |     | 11 |
| 100 | Instability-wave propagation in boundary-layer flows at subsonic through hypersonic Mach numbers. <i>Mathematics and Computers in Simulation</i> , <b>2004</b> , 65, 469-487  | 3.3 | 11 |
| 99  | Uncertainty Quantification for Systems with Random Initial Conditions Using Wiener-Hermite Expansions. <i>Studies in Applied Mathematics</i> , <b>2005</b> , 114, 167-188   | 2.1 | 11 |
| 98  | Boundary-layer receptivity to three-dimensional unsteady vortical disturbances in free stream <b>1996</b> ,   |     | 11 |
| 97  | Instability wave patterns generated by interaction of sound waves with three-dimensional wall suction or roughness <b>1990,</b>   |     | 11 |
| 96  | Interaction of a Backward-Facing Step and Crossflow Instabilities in Boundary-Layer Transition. <i>AIAA Journal</i> , <b>2018</b> , 56, 497-509   | 2.1 | 10 |
| 95  | Excitation of Crossflow Instabilities in a Swept Wing Boundary Layer <b>2010,</b>   |     | 10 |
| 94  | The Influence of Realistic Reynolds Numbers on Slat Noise Simulations <b>2012,</b>  |     | 10 |

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| 93 | Nosetip bluntness effects on transition at hypersonic speeds: experimental and numerical analysis under NATO STO AVT-240 <b>2018</b> ,   |     | 9 |
| 92 | Pressure Gradient Effects on Supersonic Transition over Axisymmetric Bodies at Incidence. <i>AIAA Journal</i> , <b>2015</b> , 53, 3737-3751  | 2.1 | 9 |
| 91 | Hypersonic Viscous Flow Over Large Roughness Elements <b>2009</b> ,  |     | 9 |
| 90 | Cross-Validation of DNS and PSE Results for Instability-Wave Propagation in Compressible Boundary Layers past Curvilinear Surfaces <b>2003</b> ,   |     | 9 |
| 89 | Direct Numerical Simulations of Crossflow Disturbances in Supersonic Boundary Layers <b>2004</b> ,   |     | 9 |
| 88 | Inflow Conditions for Numerical Simulations of Bypass Transition <b>2004</b> ,   |     | 9 |
| 87 | Nonlinear wakes behind a row of elongated roughness elements. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 796, 516-557   | 3.7 | 9 |
| 86 | Numerical Study of Pressure Fluctuations due to a Mach 6 Turbulent Boundary Layer <b>2013</b> ,  |     | 8 |
| 85 | The Variation of Slat Noise with Mach and Reynolds Numbers <b>2011</b> ,   |     | 8 |
| 84 | In Search of the Physics: The Interplay of Experiment and Computation in Airframe Noise Research, Part 2 (Invited) <b>2003</b> ,   |     | 8 |
| 83 | ON SPATIAL EVOLUTION OF LONG-WAVELENGTH GORTLER VORTICES GOVERNED BY A VISCOUS-INVISCID INTERACTION PART 1: THE LINEAR CASE. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , <b>1994</b> , 47, 207-229 | 1   | 8 |
| 82 | Convolutional neural network for transition modeling based on linear stability theory. <i>Physical Review Fluids</i> , <b>2020</b> , 5,  | 2.8 | 8 |
| 81 | Computations of Crossflow Instability in Hypersonic Boundary Layers <b>2017</b> ,  |     | 7 |
| 80 | Nonlinear Transient Growth and Boundary Layer Transition <b>2016</b> ,   |     | 7 |
| 79 | Control of Crossflow Transition at High Reynolds Numbers Using Discrete Roughness Elements. <i>AIAA Journal</i> , <b>2016</b> , 54, 39-52  | 2.1 | 7 |
| 78 | Blunt body paradox and improved application of transient growth framework. <i>AIAA Journal</i> , <b>2018</b> , 56, 2604-2614   | 2.1 | 7 |
| 77 | Roughness Based Crossflow Transition Control: A Computational Assessment <b>2009</b> ,   |     | 7 |
| 76 | Distributed acoustic receptivity in laminar flow control configurations. <i>Physics of Fluids</i> , <b>1994</b> , 6, 489-506   | 4.4 | 7 |

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|----|--|-----|---|
| 75 | Instability wave-streak interactions in a hypersonic boundary layer at flight conditions. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 858, 474-499 | 3.7 | 7 |
| 74 | Noise Simulations of the High-Lift Common Research Model <b>2017</b> ,   |     | 6 |
| 73 | Boundary-Layer Stability Analysis of the Mean Flows Obtained Using Unstructured Grids. <i>Journal of Aircraft</i> , <b>2015</b> , 52, 49-63              | 1.6 | 6 |
| 72 | Discrete-Roughness-Element-Enhanced Swept-Wing Natural Laminar Flow at High Reynolds Numbers. <i>AIAA Journal</i> , <b>2015</b> , 53, 2321-2334          | 2.1 | 6 |
| 71 | Grid Sensitivity Study for Slat Noise Simulations <b>2014</b> ,  |     | 6 |
| 70 | Analysis of Numerical Simulation Database for Acoustic Radiation from High-Speed Turbulent Boundary Layers <b>2014</b> ,                                 |     | 6 |
| 69 | Towards Bridging the Gaps in Holistic Transition Prediction via Numerical Simulations <b>2013</b> ,  |     | 6 |
| 68 | Effects of Riblets on Skin Friction and Heat Transfer in High-Speed Turbulent Boundary Layers <b>2012</b> ,  |     | 6 |
| 67 | Unsteady flow computations of a slat with a blunt trailing edge <b>1999</b> ,  |     | 6 |
| 66 | Numerical Investigation of Roughness Effects on Transition on Spherical Capsules. <i>Journal of Spacecraft and Rockets</i> , <b>2019</b> , 56, 388-404   | 1.5 | 6 |
| 65 | Influence of a Backward-Facing Step on Swept-Wing Boundary-Layer Transition. <i>AIAA Journal</i> , <b>2019</b> , 57, 267-278                             | 2.1 | 6 |
| 64 | Influence of Spanwise Boundary Conditions on Slat Noise Simulations <b>2015</b> ,  |     | 5 |
| 63 | Computations of Disturbance Amplification Behind Isolated Roughness Elements and Comparison with Measurements <b>2015</b> ,                              |     | 5 |
| 62 | Streak Instabilities on HIFiRE-5 Elliptic Cone <b>2020</b> ,   |     | 5 |
| 61 | Nonlinear Evolution and Breakdown of Azimuthally Compact Crossflow Vortex Pattern over a Yawed Cone <b>2018</b> ,  |     | 5 |
| 60 | Characterization of Freestream Disturbances in Conventional Hypersonic Wind Tunnels <b>2018</b> ,  |     | 5 |
| 59 | Laminar-Turbulent Transition Upstream of the Entropy-Layer Swallowing Location in Hypersonic Boundary Layers <b>2019</b> ,                               |     | 5 |
| 58 | Transition Onset Predictions for Oblique Breakdown in a Mach 3 Boundary Layer. <i>AIAA Journal</i> , <b>2014</b> , 52, 882-886                           | 2.1 | 5 |



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| 57 | The Interaction of a Backward-Facing Step and Crossflow Instabilities in Boundary-Layer Transition <b>2015,</b> | 5 |
| 56 | A novel approach for reducing rotor tip-clearance induced noise in turbofan engines <b>2001,</b>                | 5 |
| 55 | Görtler Instability and Its Control via Surface Suction Over an Axisymmetric Cone at Mach 6 <b>2018,</b>        | 5 |
| 54 | Direct Numerical Simulation of Hypersonic Turbulent Boundary Layers inside an Axisymmetric Nozzle <b>2017,</b>  | 4 |
| 53 | Stabilization of hypersonic boundary layers by linear and nonlinear optimal perturbations <b>2017,</b>          | 4 |
| 52 | Numerical Investigation of Roughness Effects on Transition on Spherical Capsules <b>2018,</b>                   | 4 |
| 51 | Influence of Stationary Crossflow Modulation on Secondary Instability <b>2016,</b>                              | 4 |
| 50 | Direct Numerical Simulations of High-Speed Turbulent Boundary Layers over Riblets <b>2014,</b>                  | 4 |
| 49 | DRE-Enhanced Swept-Wing Natural Laminar Flow at High Reynolds Numbers <b>2013,</b>                              | 4 |
| 48 | Direct Numerical Simulation of Transition in a Swept Wing Boundary Layer <b>2013,</b>                           | 4 |
| 47 | Detailed Comparison of DNS with PSE for Oblique Breakdown at Mach 3 <b>2010,</b>                                | 4 |
| 46 | Transition Within Leeward Plane of Axisymmetric Bodies at Incidence in Supersonic Flow <b>2012,</b>             | 4 |
| 45 | Nonlinear Görtler Vortices and Their Secondary Instability in a Hypersonic Boundary Layer <b>2019,</b>          | 4 |
| 44 | Assessment of Noise Reduction Concepts for Leading-Edge Slat Noise <b>2018,</b>                                 | 4 |
| 43 | Transient Growth and Streak Instabilities on a Hypersonic Blunt Body <b>2017,</b>                               | 3 |
| 42 | Streak Instability Analysis on BOLT Configuration <b>2020,</b>  | 3 |
| 41 | Transition Delay via Vortex Generators in a Hypersonic Boundary Layer at Flight Conditions <b>2018,</b>         | 3 |
| 40 | Acoustics and Surface Pressure Measurements from Tandem Cylinder Configurations <b>2014,</b>                    | 3 |

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| 39 | Boundary Layer Transition over Blunt Hypersonic Vehicles Including Effects of Ablation-Induced Out-Gassing <b>2011</b> ,                          |     | 3 |
| 38 | Roughness Based Crossflow Transition Control for a Swept Wing Airfoil Design <b>2010</b> ,  |     | 3 |
| 37 | Simulation and Modeling of Cold-Wall Hypersonic Turbulent Boundary Layers on Flat Plate <b>2020</b> ,   |     | 3 |
| 36 | Toward a Practical Method for Hypersonic Transition Prediction Based on Stability Correlations. <i>AIAA Journal</i> , <b>2020</b> , 58, 4475-4484 | 2.1 | 3 |
| 35 | Effect of Surface Roughness on Boundary Layer Transition and Far Field Noise <b>2019</b> ,  |     | 3 |
| 34 | Assessment of RANS-based Transition Models based on Experimental Data of the Common Research Model with Natural Laminar Flow <b>2021</b> ,        |     | 3 |
| 33 | Direct Numerical Simulation of Acoustic Disturbances in the Rectangular Test Section of a Hypersonic Wind Tunnel <b>2018</b> ,                    |     | 3 |
| 32 | Effect of Distributed Patch of Smooth Roughness Elements on Transition in a High-Speed Boundary Layer <b>2018</b> ,                               |     | 3 |
| 31 | Direct Numerical Simulation of Transition due to Traveling Crossflow Vortices <b>2015</b> ,   |     | 2 |
| 30 | The Effect of Backward-facing Step Height on Instability Growth and Breakdown in Swept-Wing Boundary-Layer Transition <b>2015</b> ,               |     | 2 |
| 29 | Direct Numerical Simulations of Acoustic Disturbances in Various Rectangular Nozzle Configurations <b>2020</b> ,                                  |     | 2 |
| 28 | Transient Growth Analysis of Compressible Boundary Layers with Parabolized Stability Equations <b>2016</b> ,                                      |     | 2 |
| 27 | Acoustic Radiation from High-Speed Turbulent Boundary Layers in a Tunnel-like Environment <b>2015</b> ,   |     | 2 |
| 26 | ROUGHNESS INDUCED TRANSIENT GROWTH: NONLINEAR EFFECTS. <i>Fluid Mechanics and Its Applications</i> , <b>2006</b> , 237-242                        | 0.2 | 2 |
| 25 | Numerical boundary conditions for simulation of gust-cascade interaction <b>1999</b> ,  |     | 2 |
| 24 | Computational study of micro fluid mechanics of duct acoustic treatment <b>1999</b> ,   |     | 2 |
| 23 | Recurrent neural network for end-to-end modeling of laminar-turbulent transition. <i>Data-Centric Engineering</i> , <b>2021</b> , 2,              | 2.6 | 2 |
| 22 | Predicting Boundary-Layer Transition over Backward-Facing Steps via Linear Stability Analysis. <i>AIAA Journal</i> , <b>2020</b> , 58, 3728-3734  | 2.1 | 2 |

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|----|---|-----|---|
| 21 | Simulation and Modeling of Hypersonic Turbulent Boundary Layers Subject to Favorable Pressure Gradients due to Streamline Curvature <b>2021</b> ,                                   |     | 2 |
| 20 | Direct Numerical Simulations of Instability-Wave Generation and Propagation in Supersonic Boundary Layers. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 859-870         | 0.9 | 2 |
| 19 | Shape Optimization of Vortex Generators to Control Mack Mode Amplification <b>2020</b> ,  |     | 1 |
| 18 | Slat Noise Control Using a Slat Gap Filler <b>2020</b> ,  |     | 1 |
| 17 | Transition and Turbulence <b>2016</b> , 11-1-11-43  |     | 1 |
| 16 | Boundary-Layer Stability Analysis of the Mean Flows Obtained Using Unstructured Grids <b>2012</b> ,   |     | 1 |
| 15 | Application of laser-induced thermal acoustics to a high-lift configuration <b>2003</b> , 5191, 134   |     | 1 |
| 14 | Long wavelength asymptotics of stationary crossflow instability in incompressible and compressible boundary-layer flows <b>1996</b> ,   |     | 1 |
| 13 | Nonlinear Development and Secondary Instability of Traveling Crossflow Vortices <b>2014</b> ,   |     | 1 |
| 12 | Computational Analysis for Roughness-Based Transition Control. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2010</b> , 237-242                           | 0.3 | 1 |
| 11 | Assessment of Transition Modeling Capability in OVERFLOW with Emphasis on Swept-Wing Configurations <b>2020</b> ,   |     | 1 |
| 10 | Toward Transition Modeling in a Hypersonic Boundary Layer at Flight Conditions <b>2020</b> ,  |     | 1 |
| 9  | Assessment of Aeroacoustic Simulations of the High-Lift Common Research Model <b>2019</b> ,   |     | 1 |
| 8  | Nonmodal Growth of Traveling Waves on Blunt Cones at Hypersonic Speeds <b>2019</b> ,  |     | 1 |
| 7  | Secondary instability of Görtler vortices in hypersonic boundary layer over an axisymmetric configuration. <i>Theoretical and Computational Fluid Dynamics</i> ,1                   | 2.3 | 0 |
| 6  | Evolution of high-frequency instabilities in the presence of azimuthally compact crossflow vortex pattern over a yawed cone. <i>Theoretical and Computational Fluid Dynamics</i> ,1 | 2.3 | 0 |
| 5  | Assessment of Slat Extensions and a Cove Filler for Slat Noise Reduction. <i>AIAA Journal</i> ,1-14   | 2.1 | 0 |
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