

## Expertise areas:

- Low Reynolds Number Aerodynamics
- Unsteady Aerodynamics
- Flow Control
- Flexible Wing Aerodynamics
- Wind turbine aerodynamics



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# Recent Projects:

Experimental investigation of effect of acoustic excitation on laminar separation bubble over an NACA2415 aerofoil at low Re number flow, TUBİTAK 1001 Project under the contract no : 110M068.

Project director, Experimental investigation of unsteady aerodynamics of flexible wings at low Reynolds numbers, TUBİTAK 1001 Project under the contract no : 213M329.

# Recent Publications:

- M. Serdar GENÇ, H. Hakan AÇIKEL, M. Tuğrul AKPOLAT, Gökhan ÖZKAN, İlyas KARASU, Acoustic control of flow over NACA 2415 aerofoil at low Reynolds numbers, Journal of Aerospace Engineering-ASCE, 2016.
- H. Hakan AÇIKEL, M. Serdar GENÇ, Flow control with perpendicular acoustic forcing on NACA 2415 aerofoil at low Reynolds numbers, Proc IMechE, Part G- Journal of Aerospace Engineering, DOI:10.1177/0954410015625672, accepted, 2015.
- İlyas KARASU, M. Serdar GENÇ, H. Hakan AÇIKEL, Numerical Study on Low Reynolds Number Flows over an aerofoil, Journal of Applied Mechanical Engineering, 2:131, 2013.
- M. Serdar GENÇ, Unsteady Aerodynamics and Flow-Induced Vibrations of Low Aspect Ratio Rectangular Membrane Wing with Excess Length, Experimental Thermal and Fluid Science, vol 44, pp 749-759, 2013.
- M. Serdar GENÇ, Muhammet ÇELİK, İlyas KARASU, A Review on Wind Energy and Wind-Hydrogen Production in Turkey: A Case Study of Hydrogen Production via Electrolysis System Supplied by Wind Energy Conversion System in Central Anatolian Turkey, Renewable & Sustainable Energy Reviews, vol. 16, pp.6631–6646, 2012.
- Gamze GENÇ, Muhammet ÇELİK, M. Serdar GENÇ, Cost Analysis of Wind-Electrolyzer-Fuel Cell System for Energy Demand in Pınarbaşı-Kayseri, International Journal of Hydrogen Energy, Vol. 37 (17), pp. 12158-12166, 2012.
- M. Serdar GENÇ, İlyas KARASU, H. Hakan AÇIKEL, An experimental study on aerodynamics of NACA2415 aerofoil at low Re numbers, Experimental Thermal and Fluid Science, vol 39, pp. 252-264, 2012.