

SELECTED PUBLICATIONS

1. SAVAŞ, Ö. & COLES D. 1985 Coherence measurements in synthetic turbulent boundary layers. *Journal of Fluid Mechanics*, **160**, 421-446.
2. SAVAŞ, Ö. 1985 On flow visualization using reflective flakes. *Journal of Fluid Mechanics*, **152**, 235-248.
3. SAVAŞ, Ö. & GOLLAHALLI, S.R. 1986 Stability of lifted laminar round gas jet flame. *Journal of Fluid Mechanics*, **165**, 297-318.
4. SAVAŞ, Ö. & GOLLAHALLI, S.R. 1986 Flow Structure in the near-nozzle region of gas jet flames. *AIAA Journal* **24**, 1137-1140.
5. SAVAŞ, Ö. 1987 Stability of Bödewadt flow. *Journal of Fluid Mechanics*, **183**, 77-94.
6. SAVAŞ, Ö. 1992 Spindown to rest in a cylindrical cavity. *Journal of Fluid Mechanics*, **234**, 529-552.
7. CHEN, A. L., JACOB, J.D. & SAVAŞ, Ö. 1999 Dynamics of corotating vortex pairs in the wakes of flapped airfoils. *Journal of Fluid Mechanics*, **382**, 155-193.
8. TSUEI, L. & SAVAŞ, Ö. 2000 Treatment of interfaces in particle image velocimetry. *Experiments in Fluids*, **29**(3), 203-214.
9. TSUEI, L. & SAVAŞ, Ö. 2001 Transient Aerodynamics of vehicle platoons during in-line oscillations. *Journal of Wind Engineering and Industrial Aerodynamics*. **89**(13), 1085-1111.
10. ORTEGA, J. M., BRISTOL, R. L. & SAVAŞ, Ö. 2002 Wake alleviation properties of triangular-flapped wings. *AIAA Journal*, **40**(4), 709-721.
11. ORTEGA, J. M., BRISTOL, R. L. & SAVAŞ, Ö. 2003 Experimental study of the instability of unequal strength counter-rotating vortex pairs. *Journal of Fluid Mechanics*, **474**, 35-84.
12. BALE-GLICKMAN, J., SELBY, K., SALONER, D. & SAVAŞ, Ö. 2003 Experimental flow studies in exact-replica phantoms of atherosclerotic carotid bifurcations Under Steady Input Conditions. *ASME Journal of Biomechanical Engineering*, **125**, 38-48.
13. BRISTOL, R., ORTEGA, J. & SAVAŞ, Ö. 2003 Experimental study of corotating wake-vortex merger at Reynolds numbers of order 10^5 . *AIAA Journal*, **41**(4), 741-744.
14. BRISTOL, R. L., ORTEGA, J. M., MARCUS, P. S. & SAVAS, O. 2004 On cooperative instabilities of parallel vortex pairs. *Journal of Fluid Mechanics*, **517**, 331-358.
15. DURSTON, D.A., WALKER, S. M., DRIVER, D.M., SMITH, S.C. & SAVAS, Ö. 2005 Wake vortex alleviation flow field studies. *AIAA Journal of Aircraft*, **42**(4), 894-907.
16. STACK, J., CARADONNA, F. X. & SAVAS, O. 2005 Flow visualizations and extended thrust time histories of rotor vortex wakes in descent. *Journal of the American Helicopter Society*, **50**(3), 279-288.

17. SAVAŞ, Ö. 2005 Experimental investigations on wake vortex and its alleviation. *Comptes Rendus Physique*, Academie des Sciences, Paris, **6**(4-5), 415-429.
18. McCAULEY, G. J., MARCUS, P. S., Deriver, SAVAŞ, Ö. & Durston, D. A 2006 Computational analysis of a passive wake alleviation scheme. AIAA Paper 2006-2820.
19. GREEN, R.B., SAVAŞ, Ö. & CARADONNA, F. X. 2007 Visualisation and measurement of the vortex ring state of a descending rotor flow using time-resolved PIV. The Seventh International PIV Conference, Rome, Italy, September 11-14, 2007.
20. SAVAŞ, Ö., GREEN, R.B. & CARADONNA, F. X. 2008 Coupled thrust and vorticity dynamics during VRS. American Helicopter Society Specialist's Conference on Aeromechanics, San Francisco, CA, Jan. 23-25, 2008.
21. SAVAŞ, Ö., GREEN, R.B. & CARADONNA, F. X. 2009 Coupled thrust and vorticity dynamics during vortex ring state. *Journal of the American Helicopter Society*, **54**, 022001.
22. McCAULEY, G. J., TSAI, W. & SAVAŞ, Ö. 2010 An experimental study of rotorcraft in ground effect. American Helicopter Society Specialist's Conference on Aeromechanics, San Francisco, CA, Jan. 20-22, 2010.
23. McNUTT, M. K., CAMILLI, R., CRONE, T. J., GUTHRIE, G. D., HSIEH, P. A., RYERSON, T. B., SAVAŞ, Ö. & SHAFFER, F. 2011 Review of flow rate estimates of the Deepwater Horizon oil spill. *PNAS: Proceedings of the National Academy of Sciences of the United States of America*. Published online on December 20, 2011.
DOI: 10.1073/pnas.1112139108
24. OHANIAN, C. V., McCAULEY, G. J. & SAVAŞ, Ö. 2012 A visual study of vortex instabilities in the wake of a rotor in hover. *Journal of the American Helicopter Society*, **57**(4): 1-8.
<https://doi.org/10.4050/JAHS.57.042005>
25. KONUS, M. F. & SAVAŞ, Ö. 2016 Rotor vortex wake in close proximity of walls in hover. *Journal of the American Helicopter Society*, Volume 61, Number 4, October 2016, pp. 1-12(12) DOI: <https://doi.org/10.4050/JAHS.61.042003>
26. BARDET, P., PETERSON, P. & SAVAŞ, Ö. 2018 Annular swirling liquid layer with a hollow core. *Journal of Fluid Mechanics*, **841**, 784-824. doi:10.1017/jfm.2018.76
27. KURAAN, A.M. & SAVAŞ, Ö. 2019 Smoke streak visualization of steady flows over a spinning cone at angle of attack in flight. *Journal of Visualization*. Published online, December 18, 2019. 15 pages. doi.org/10.1007/s12650-019-00621-1
28. IBARRA, E., SHAFFER, F. & SAVAŞ, Ö. 2020 On the near-field interfaces of homogeneous and immiscible round turbulent jets. *Journal of Fluid Mechanics*. **889**, 25 April 2020 , A4, 39 pages. Published online Feb 18, 2020. <https://doi.org/10.1017/jfm.2020.59>
29. ABALI, E.B. & SAVAŞ, Ö. 2020 Experimental validation of computational fluid dynamics for solving isothermal and incompressible viscous fluid flow. 16 pages. Published online: August 11, 2020. *SN Applied Sciences*, (2020) 2:1500, Springer.
<https://doi.org/10.1007/s42452-020-03253-5>

30. SHAFFER, F., IBARRA, E. & SAVAŞ, Ö. 2021 Visualization of submerged turbulent jets using particle tracking velocimetry. *Journal of Visualization*, **24** (4), pp. 699-710, Springer. <https://doi.org/10.1007/s12650-021-00744-4>
31. BİLGİ, O.R. & SAVAŞ, Ö. 2021 Vortex wakes of tip loaded rotors at low Reynolds numbers. *Physics of Fluids*, **33**(7), 077102 (2021); <https://doi.org/10.1063/5.0049524>
32. KONUS, M. F. & SAVAŞ, Ö. 2021 Observations of vortex instabilities in the wakes of coaxial rotors. Presented at XXV ICTAM Meeting, August 22-27, 2020+1. Milano, Italy. (delayed due to the COVID-19 pandemic). Paper available at https://issuu.com/boccanelli/docs/abstract_book_ictam2021-3?fr=sYzhMDQxNjU3ODQ pp. 1391-1392.
Also available, both the paper and the oral presentation, at <https://virtualictam2021.livebit.it/>
33. KURAN, A. & SAVAŞ, Ö. 2024 Flows over a spinning disc at incidence. *Journal of Fluid Mechanics*. **999**, A95, 35 pages. Published online November 21, 2024. <https://doi.org/10.1017/jfm.2024.916>