

Publication List

List 2017:

1. **K. Vogiatzaki**, C. Crua, R. Morgan, M.R. Heikal, A study of the controlling parameters of fuel air mixture formation for ECN Spray A, Proceedings 28th European Conference on Liquid Atomisation and Spray Systems (ILASS) 2017
2. M. Aboukhedr, N. Mitroglou, A. Georgoulas, M. Marengo, **K. Vogiatzaki**, Simulation of droplet spreading on micro-CT reconstructed 3D real porous media using the volume-of-fluid method, In Proceedings 28th European Conference on Liquid Atomisation and Spray Systems (ILASS) 2017
3. G. Tretola, **K. Vogiatzaki**, S. Navarro-Martinez: Detailed simulation of air-assisted spray atomization: effect of numerical scheme at intermediate Weber number, In Proceedings 28th European Conference on Liquid Atomisation and Spray Systems (ILASS) 2017
4. C. Straub, OT Stein, G. Kuenne, A. Kronenburg, **K. Vogiatzaki**: Modelling of Turbulent Premixed Stratified Combustion with Multiple Mapping Conditioning Mixing Model, In Proceedings of European Combustion Meeting, Dubrovnik, Croatia, 2017.
5. W. Zeng, **K. Vogiatzaki**, K. H. Luo, S. Navarro-Martinez: Assessment of the effect of sub-grid scales on large eddy simulation of a back-step combustor, In Proceedings of European Combustion Meeting, Dubrovnik, Croatia, 2017.

List 2016

6. C. Straub, S. De, A. Kronenburg, **K. Vogiatzaki**, The effect of a minor dissipation time scale on predicted local extinction and re-ignition in the Sandia flame series (D-F), Combustion Theory and Modelling, <http://dx.doi.org/10.1080/13647830.2016.1191677>, 2016
7. **K. Vogiatzaki**, P. K. Koukouvinis, J. Carlton, Numerical investigation of different cavitation regimes with the use of Large Eddy Simulations, In Proceedings 27th European Conference on Liquid Atomisation and Spray Systems (ILASS) 2016
8. M. Aboukhedr, M. Gavaises, A. Georgoulas, M. Marengo, **K. Vogiatzaki** Numerical investigation of droplet spreading on porous and non-porous surfaces, In Proceedings 27th European Conference on Liquid Atomisation and Spray Systems (ILASS) 2016

List 2015

9. Taamallah S., **Vogiatzaki K.**, Ghoniem A.F., Alzahrani_ F.M., Mokheimer E., Habib M.A. Fuel Flexibility, Stability and Emissions in Premixed Hydrogen-Rich Combustion: Technology, Fundamentals, and Numerical Simulations, Applied energy, Vol.154, Pages 1020–1047 2015 [doi:10.1016/j.apenergy.2015.04.044](https://doi.org/10.1016/j.apenergy.2015.04.044)
10. M Aboukhedr, **K Vogiatzaki**, N. Mitroglou and M Gavaises, A numerical simulation of single and two-phase flow in porous media: A pore-scale observation of effective microscopic forces. 6th BETA CAE International Conference, Greece, Vol. 6, May 2015, [doi:10.13140/RG.2.1.5032.4643](https://doi.org/10.13140/RG.2.1.5032.4643)
11. Alzahrani, F.M. , Sanusi , Y.S., **Vogiatzaki, K.** Ghoniem , A.F.,. Habib M.A, Mokheimer, E.M. Comparison of Nine Selected Syngas Combustion Mechanisms for CFD Applications, J. Energy Resour. Technol. 137(4), 042201 (Jul 01, 2015), [doi: 10.1115/1.4029860](https://doi.org/10.1115/1.4029860)
12. **Vogiatzaki K.**, Navarro-Martinez S., S. De and Kronenburg A., Modelling of a turbulent Jet Flame close to extinction with multiple mapping conditioning, Meriting inclusion in the Special Issue of

Flow turbulence and Combustion, Vol. 95, p. 501-517, 2015, [doi: 10.1007/s10494-015-9626-0](https://doi.org/10.1007/s10494-015-9626-0)

List 2014

13. W. P. Jones, , A. J. Marquis, S. Navarro-Martinez, **K.Vogiatzaki** Large Eddy Simulation of Three Stratified Lean Premixed Turbulent Flames. 9th Mediterranean Combustion Symposium, Rhodes, Greece 7-11 July 2014
14. **K. Vogiatzaki**, S. Navarro-Martinez, S. De and A. Kronenburg, Modelling of a turbulent jet flame close to extinction with Multiple Mapping Conditioning, 10th International ERCOFTAC Symposium on Engineering Turbulence Modelling and Measurements, Mabella, Spain, 17th – 19th September 2014.
15. Jones W.P., Marquis A. J., **Vogiatzaki K.**, Large-eddy simulation of spray combustion in a gas turbine combustor, Combustion and Flame, 2013, Vol. 161, Issue 1, Pages 222–239, 2014 (One of the most downloaded articles of Combustion and Flame since its publication)
<http://dx.doi.org/10.1016/j.combustflame.2013.07.016>.

List before 2013

16. Kewlani G. , **Vogiatzaki K.**, Shanbhogue S., Ghoniem A.F., Large Eddy Simulations of Wake Stabilized Reacting Flows using Flame Thickening Approaches: Validation Studies, 51st AIAA Aerospace Sciences Meeting, Texas, US, 7th - 10th January 2013, [paper link](#)
17. Jones W.P., Marquis A. J., **Vogiatzaki K.**, Large-eddy simulation of spray combustion in a gas turbine combustor, Proceedings of European Combustion Meeting, Cardiff, UK, 28th June - 1st July 2011, [paper link](#) .
18. **Vogiatzaki K.**, Navarro-Martinez S., Kronenburg A., Modelling of Sandia Flame F with Multiple Mapping Conditioning, Proceedings of European Combustion Meeting, Cardiff, UK, 28th June - 1st July 2011, [paper link](#).
19. **Vogiatzaki K.**, Navarro-Martinez S., Kronenburg A., Jones, W.P., Stochastic multiple mapping conditioning for a turbulent jet diffusion flame, Proceedings of Combustion Institute, 2011, Vol:33, Issue 1, Pages: 1523-1531, [doi: 10.1016/j.proci.2010.06.126](https://doi.org/10.1016/j.proci.2010.06.126).
20. **Vogiatzaki K.**, Cleary M.J., Kronenburg A., Kent J.H., Modeling of scalar mixing in turbulent jet flames by multiple mapping conditioning, Physics of Fluids, 2009, Vol: 21, Issue 2, [doi: 10.1063/1.3081553](https://doi.org/10.1063/1.3081553).
21. **Vogiatzaki K.**, Cleary M.J., Kronenburg A., Kent J.H., Multiple mapping conditioning of turbulent jet diffusion flames, Proceedings of Combustion Institute, 2009, Vol: 32, Issue 2, Pages: 1679-1685. doi.org/10.1016/j.proci.2008.06.164
22. **Vogiatzaki K.**, Navarro-Martinez S., Kronenburg A., Jones, W.P., Stochastic multiple mapping conditioning for scalar mixing in Sandia Flame D, Proceedings of European combustion meeting, Vienna, Austria, 14 - 17 April 2009, [paper link](#).
23. **Vogiatzaki K.**, Cleary M.J., Kronenburg A., Kent J.H., Modeling of inhomogeneous turbulent reactive flows by multiple mapping conditioning, Proceedings of European combustion meeting, Chania, Greece, 3 - 6 April 2007, [paper link](#)