

CONTACT DETAILS

Name: Yashar Shoraka

Phone: (+61) 0412 560 405

Email: yashar.shoraka@sydney.edu.au, yshoraka@gmail.com

LIST of PUBLICATIONS

- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y. (2024). Modelling a turbulent premixed flame series using an MMC-LES model with a flow-adapted flame wrinkling closure. Proceedings of the Combustion Institute, 40 (1-4).
- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y. (2021). Modelling of a turbulent premixed flame series using a new MMC-LES model with a shadow-position reference variable. Proceedings of the Combustion Institute, 38 (2), 3057-3065.
- Tehrani, S. S. M., Shoraka, Y., Nithyanandam, K., & Taylor, R. A. (2019). Shell-and-tube or packed bed thermal energy storage systems integrated with a concentrated solar power: A techno-economic comparison of sensible and latent heat systems. Applied Energy, 238, 887-910.
- Tehrani, S. S. M., Shoraka, Y., Diarce, G., & Taylor, R. A. (2019). An improved, generalized effective thermal conductivity method for rapid design of high temperature shell-and-tube latent heat thermal energy storage systems. Renewable energy, 132, 694-708.
- Mostafavi Tehrani, S. S., Shoraka, Y., Nithyanandam, K., & Taylor, R. A. (2018). Cyclic performance of cascaded and multi-layered solid-PCM shell-and-tube thermal energy storage systems: A case study of the 19.9 MWe Gemasolar CSP plant. Applied Energy, 228(C), 240-253.
- Taylor, R., Shoraka, Y., Tehrani, S., & Nashed, A. (2018) Thermal Energy Storage for Buildings: A Merit Order Review, Annual Review of Heat Transfer, 21.
- Shekarian, A. A., Tabejamaat, S., & Shoraka, Y. (2014). Effects of incident shock wave on mixing and flame holding of hydrogen in supersonic air flow. International Journal of Hydrogen Energy, 39(19), 10284-10292.
- Jahangirian, A., & Shoraka, Y. (2008). Adaptive unstructured grid generation for engineering computation of aerodynamic flows. Mathematics and Computers in Simulation, 78(5-6), 627-644.

Conferences:

- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y. (2023). Modelling of a turbulent premixed flame series using an MMC-LES model with a shadow position reference variable with locally adjusted model parameters. In 14th Asia-Pacific Conference on Combustion (ASPACC 2023).
- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y. (2022). LES/PDF Modelling of Turbulent Premixed Flames Using an MMC – Shadow Position Mixing Model with Local Model Parameters. In 23rd Australasian Fluid Mechanics Conference.
- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y. (2021). LES/PDF Modelling of Turbulent Premixed Flames Using an MMC – Shadow Position Mixing Model Incorporating Detailed Chemistry. In Australian Combustion Symposium 2021.

- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y (2020). Modelling of a turbulent premixed flame series using a new MMC-LES model with a shadow-position reference variable. In 38th International Symposium on Combustion.
- Shoraka, Y., Galindo-Lopez, S., Cleary, M. J., Masri, A. R., Klimenko, A. Y (2019). LES/PDF Modelling of Turbulent Premixed Flames in the Flamelet Regime Using an MMC – Shadow Position Mixing Model. In Australian Combustion Symposium 2019.
- Tehrani, S. S. M., Shoraka, Y., Taylor, R. A., & Menictas, C. (2017). Performance Analysis of High Temperature Sensible Heat Thermal Energy Storage Systems for Concentrated Solar Thermal Power Plants. In ASME 2017 Heat Transfer Summer Conference.
- Shoraka Y., & Tabejamaat, S. (2011). Numerical Investigation on the Effect of Incident Shock Wave on Mixing and Combustion of Transverse Hydrogen Injection in Supersonic Airstream. 7th Mediterranean Combustion Symposium, Chia Laguna, Cagliari, Sardinia, Italy
- Jahangirian, A., Shoraka, Y., & Hashemi, M. (2008). An Adaptive Cartesian unstructured grid generation method for moving boundary applications. In International Conf. on Numerical Geometry, Grid Generation and Scientific Computing (NUMGRID2008), Moscow, Russia