Lena Caban

Lista Publikacji

1. Caban, L., Tyliszczak, A., Geurts, B. J., Domaradzki, J. A. (2025). Assessment of LES-ADM Accuracy for Modelling of Auto-Ignition and Flame Propagation in a Temporally-Evolving Nitrogen-Diluted Hydrogen Jet. Flow, Turbulence and Combustion, 115, 303–345.

2. Wawrzak, A., Caban, L., Tyliszczak, A., Mastorakos, E. (2024). Numerical analysis of turbulent nitrogen-diluted hydrogen flames stabilised by star-shaped bluff bodies. Applied Energy, 364, 123075.

3. Caban, L., Tyliszczak, A. (2024). A Comparative Study of the Hydrogen Auto-Ignition Process in Oxygen–Nitrogen and Oxygen–Water Vapor Oxidizer: Numerical Investigations in Mixture Fraction Space and 3D Forced Homogeneous Isotropic Turbulent Flow Field. Energies, 17, 4525.

4. Caban, L., Tyliszczak, A. (2023). Attenuating and enhancing properties of the approximate deconvolution method based on higher-order explicit and compact filters. Archives of Mechanics, 75(1-2), 107-149.

5. Caban, L., Tyliszczak, A. (2022). High-order compact difference schemes on wide computational stencils with a spectral-like accuracy. Computers and Mathematics with Applications, 108, 123-140.