Giuseppe Bonura is Research Director at CNR-ITAE, Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" of the Consiglio Nazionale delle Ricerche, in Messina, Italy. His scientific interests deal with the development of catalytic systems for the production of e-fuels and bio-fuels. Currently, he is research leader in his Institute of the GTL team "Production of Alternative Fuels", being also responsible for several International and National research projects, in the frame of CCU technologies and catalytic applications for the production of carbon-neutral fuels. His research areas are:

- Heterogeneous catalysis and catalytic technologies
- Synthesis, characterization and lab-scale testing of solid catalysts for the production of alternative fuels
- Methanol and DME from CO_2 hydrogenation
- Synthetic fuels for the automotive, marine, and aviation sectors via GTL processes
- Biodiesel from the transesterification of vegetable oils in the presence of structured solid catalysts
- Oxygenated additives (glycerol acetals and ethers) in acid-catalyzed liquid-solid processes
- Biomethane and biohydrogen from catalytic gasification of biomass in supercritical water