

Leonardo Sbrascini is a 2nd year PhD student at the LABoratory of MATerials for Electrochemical energy Storage (LABMATES). He is working on sustainable materials for high energy density anodes for Li-ion batteries and composite cathodes for Li-S batteries. In particular, his research focuses on the use of hard carbon from waste biomass and nanostructured carbon materials to be used as matrices in Si-based anodes (Gen3b) and S/C cathodes (Gen4) coupled to the use of water-processable binders, with the aim of reducing the environmental impact of production while maintaining good performance for next-gen systems.