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VLSF received her BSc (2005) and MSc (2007) in Chemistry from FCUP. As a distinction for the best master thesis in the field of Chemistry in 2007, she won the Prize “Professor Doutor Alberto Amaral”. In 2011 VLSF received her PhD from FCUP, under the the topic “Energetic-structural effects of the presence of oxygen or sulfur in heteropolycyclic compounds”.

During the period 2012-2017 she has a postdoctoral fellow by Fundação pela Ciência e Tecnologia at CIQ-UP, FCUP.

VLSF’s main research interests are molecular energetics and structure-energetic-reactivity relations, through the development of experimental and computational thermochemical studies of heteropolycyclic organic compounds.

VLSF’s ongoing projects are 1) NITROGEN: Synergy between thermochemistry/thermodynamics and structure of relevant heterocyclic and heteropolycyclic nitrogen-containing compounds; 2) ECOFRAGRANCE: Thermodynamic properties and estimation models for chemical fragrances: Benchmark tools for environmental risk assessment; and 3) SMART MATERIALS: Thermodynamic properties of relevant maleic anhydride derivatives.

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