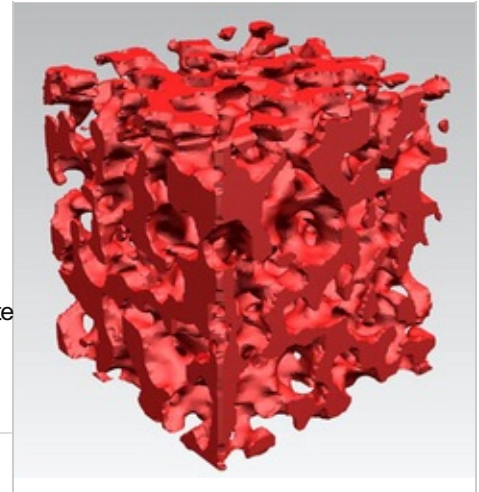


Computational Engineering of Multiscale Transport in Small-scale Surface Based Energy Conversion (CEMTEC)**

Scope of project

The scope of the present work is to develop a numerical tool for the simulation of multicomponent reacting flows in porous media with specific applications in solid oxide fuel cells (SOFC) and microreactors for portable power generation. The collaboration among different partners will provide to the numerical groups the data needed for the implementation and validation of novel accurate models. Moreover, once the models are implemented and are ready to simulate realistic systems, the experimental groups will benefit from the calculations in optimizing their experimental setups and eventually in building a micro-fuel cell prototype.



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**) Finished project

