NEMEN - Nanoengineering of Materials Applied to Energy

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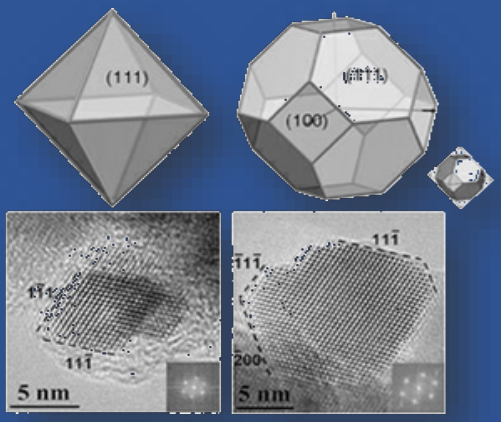
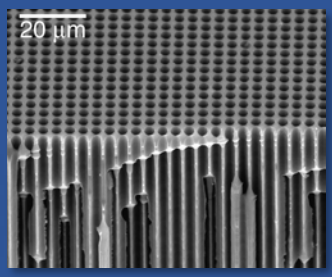
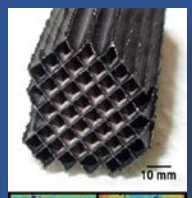
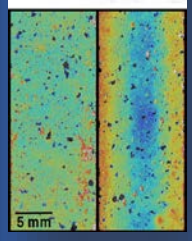


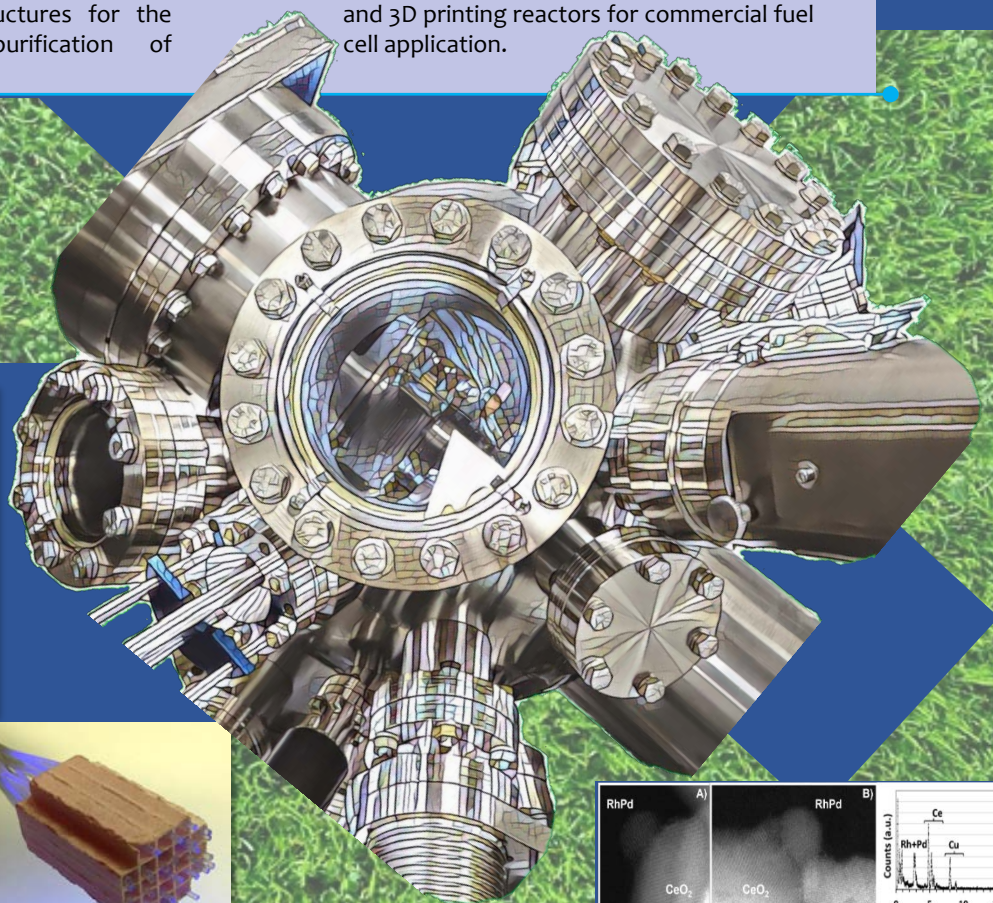






Design, develop, characterize and test new catalytic devices based on nano- and micro-structures for the generation and purification of hydrogen.

Develop fuel reformers based on catalytic walls, membrane reactors, microreactors and 3D printing reactors for commercial fuel cell application.



Photocatalytic production of hydrogen and synthetic fuels, elimination of atmospheric pollutants (CO, VOC and soot) and valorisation of CO_2.

Design of model catalysts to discover the nature of their active centres with the help of "operando" spectroscopy and microscopy techniques.