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Research Title: Synthesis of Pd nanowires using oriented zeolite membrane as templates for the development of chemical sensor for gases

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Abstract

Advanced nanoscale materials based on nanowires are proposed for the development of chemical sensor for gases. Metal nanowires are synthesized using oriented zeolite membranes as templates. The orientation of the pores of these membranes allows the synthesis of oriented nanowires. It is expected that the zeolite membrane will improve the selectivity of the sensors due to its molecular sieving properties while at the same time controlling the size of the nanowires formed.

Last 2 publication (if any)
Last 2 oral or poster presentation (if any)