Nanostructured Ag@Pd catalyst for H_2O_2 production

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Pd is a traditional precious metal catalyst, has usually a high performance, still applied to many catalytic reactions. For example, typically Pd is being used for H2O2 synthetic reactions, but with a small amount of presence on Earth, past few years, it has developed a material to replace it, or it is using nanostructure to demonstrate maximum efficiency using minimal Pd. In addition, research on improving production rate by constructing nanostructure with many different materials is drawing attention. In particular, research which controlling the oxide state of Pd through combining with other metals are being studied, and depending on the oxidation state, the selection and production rate may vary greatly. Here we report synthesis of nanostructured Ag@Pd for H2O2 production.