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### Nanocatalysts: Properties and applications

Gaikwad, A.V.

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### List of Publications

- 1) "In Situ UV-visible Study of Pd Nanocluster Formation in Solution", A. V. Gaikwad and G. Rothenberg, *Phys. Chem. Chem. Phys.*, **2006**, 8, 3669.
- 2) "A Simple Method for Measuring the Size of Metal Nanoclusters in Solution", A. V. Gaikwad, P. G. Verschuren, E. Eiser and G. Rothenberg, *J. Phys. Chem. B*, **2006**, 110, 17437.
- 3) "Matter of Age: Growing Anisotropic Gold Nanocrystals in Organic Media", A. V. Gaikwad, P. G. Verschuren, G. Rothenberg and E. Eiser, *Phys. Chem. Chem. Phys.*, **2008**, 10, 951.
- 4) "Stable soap and water sponges doped with metal nanoparticles", A. V. Gaikwad, P. G. Verschuren, T. van der Loop, G. Rothenberg, and E. Eiser, submitted.
- 5) "Ion-leaching and Atom-leaching Mechanisms from Palladium Nanoparticles in Cross-coupling Reactions", A. V. Gaikwad, A. Holuigue, M. B. Thathagar, J. E. ten Elshof and G. Rothenberg, *Chem. Eur. J.*, **2007**, 13, 6908.
- 6) "Cat-in-a-cup: Facile separation of large homogeneous catalysts", A. V. Gaikwad, V. Boffa, J. E. ten Elshof, G. Rothenberg, *Angew. Chem. Int. Ed.*, **2008**, 47, 5407.
- 7) "Modeling of Counter Current Adsorption in Continuous Liquid Solid Circulating Fluidized Bed Adsorption Chromatography", Anil Gaikwad, Sandeep Kale and Arvind Lali, *Chem. Eng. Sci.*, **2008**, 63, 1062.