

Publications

- [1] X. Wang, L. Sjø, **R. Su**,* S. Wendt, P. Hald, M. A. H. Mamakhel, C. Yang, Y. Huang, B. B. Iversen, F. Besenbacher, The influence of crystallite size and crystallinity of anatase nanoparticles on the photo-degradation of phenol, *J. Catal.*, Accepted, DOI: 10.1016/j.jcat.2013.04.022.
- [2] **R. Su**, Z. Lü, S. P. Jiang, S. P. Jiang, K. F. Chen, W. H. Su, Ag decorated (Ba,Sr)(Co,Fe)O₃ cathodes for solid oxide fuel cells prepared by electroless silver deposition, *Int. J. Hydrogen. Energy*, 38 (2013), 2413-2420.
- [3] **R. Su**, R. Bechstein, J. Kibsgaard, R.T. Vang, F. Besenbacher, High-quality Fe-doped TiO₂ films with superior visible-light performance, *J. Mater. Chem.*, 22 (2012), 23755-23758.
- [4] **R. Su**, R. Tiruvalam, Q. He, N. Dimitratos, L. Kesavan, C. Hammond, J.A. Lopez-Sanchez, R. Bechstein, C.J. Kiely, G.J. Hutchings, F. Besenbacher, Promotion of Phenol Photodecomposition over TiO₂ Using Au, Pd, and Au-Pd Nanoparticles, *ACS Nano*, 6 (2012) 6284-6292.
- [5] **R. Su**, R. Bechstein, L. Sjø, R.T. Vang, M. Sillassen, B. Esbjörnsson, A. Palmqvist, F. Besenbacher, How the Anatase-to-Rutile Ratio Influences the Photoreactivity of TiO₂, *J. Phys. Chem. C*, 115 (2011) 24287-24292.
- [6] **R. Su**, Z. Lü, K. F. Chen, N. Ai, S. Y. Li, B. Wei, W. H. Su, Novel in situ method (vacuum assisted electroless plating) modified porous cathode for solid oxide fuel cells, *Electrochem. Commun.* 10 (2008) 844-847.
- [7] L. P. Kong, Z. Lü, B. Wei, X. Q. Huang, **R. Su**, W. H. Su, Improvement of Ba_{0.5}Sr_{0.5}Zn_{0.2}Fe_{0.8}O_{3-δ}: Cathode for Intermediate-Temperature Solid Oxide Fuel Cells, The 216th ECS meeting.
- [8] **R. Su**, N. Dimitratos, M. Jensen, R. Bechstein, H. Jensen, C.J. Kiely, G.J. Hutchings, F. Besenbacher, Highly Efficient Hydrogen Production with Au-Pd core-shell Nanoparticles Supported on TiO₂, Submitted.
- [9] **R. Su**, M. Christensen, M. Sillassen, R.T. Vang, R. Bechstein, F. Besenbacher, Tailoring the orientation of titania photocatalyst for enhanced performance, in manuscript.
- [10] **R. Su**, R.T. Vang, R. Bechstein, F. Besenbacher, Homogeneous metal oxide films synthesized by advanced Plasma Electrolytic Oxidation, in manuscript.
- [11] D. L. Wang, **R. Su**, C. S. Dai, Lead-free and cadmium-free bright electroless nickel plating, *Electroplating & Finishing*. 2007 (01) 41-43.

Patents

- [1] **R. Su**, Z. Lü, B. Wei, W. X. Zhu, S. Y. Li, K. F. Chen, W. H. Su, Vacuum assisted electroless/electro plating method for electrode modification, Chinese Patent, No. CN101232097.

Conferences

- [1] **R. Su**, *et al.*, Oral presentation "Influence of the metal nanoparticle decoration of TiO₂ on the photocatalytic phenol decomposition", XIth European Congress on Catalysis, Lyon, France, (2013);
- [2] **R. Su**, *et al.*, Poster "The effect of grain size and crystallinity of metal nanoparticles decorated anatase on the photocatalytic phenol decomposition", Faraday Discussion 162 Fabrication, Structure and Reactivity of Anchored Nanoparticles, Berlin, Germany, (2013);
- [3] **R. Su**, *et al.*, Poster "The impact of anatase:rutile ratio on the photo-reactivity of TiO₂", 2nd European symposium on photocatalysis, Bordeaux, France, (2011);
- [4] **R. Su**, *et al.*, Poster "The impact of anatase:rutile ratio on the photo-reactivity of TiO₂", Energy and materials from the sun, Kerkrade, The Netherlands, (2011); **Win poster award**
- [5] **R. Su**, *et al.*, Poster "Porous TiO₂ films with controllable anatase to rutile ratio for photocatalysis", SP-3 Conference, Glasgow, UK, (2010).