



Electrochemical Water Oxidation at Iron(III) Oxide Electrodes: Controlled Nanostructuring as Key for Enhanced Water Oxidation Efficiency (BestMasters)

Sandra Haschke

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Sandra Haschke presents a strategy to enhance the Fe₂O₃ electrode performance by controlled nanostructuring of the catalyst surface, based on anodized aluminum oxide coated by means of atomic layer deposition. Furthermore, she investigates the influence of underlying conductive layers and post-deposition annealing on the electrode performance and the associated changes in morphology and chemical composition. Exploiting all effects combined delivers an increase in steady-state water oxidation throughput by a factor of 2.5 with respect to planar electrodes.

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