

Accepted Manuscript

Title: Supported metal oxide nanoparticle electrocatalysts:
How immobilization affects catalytic performance

Authors: Manuel Gliech, Malte Klingenhof, Mikaela Görlin,
Peter Strasser



PII: S0926-860X(18)30484-8
DOI: <https://doi.org/10.1016/j.apcata.2018.09.023>
Reference: APCATA 16823

To appear in: *Applied Catalysis A: General*

Received date: 24-8-2018
Revised date: 20-9-2018
Accepted date: 22-9-2018

Please cite this article as: Gliech M, Klingenhof M, Görlin M, Strasser P, Supported metal oxide nanoparticle electrocatalysts: How immobilization affects catalytic performance, *Applied Catalysis A, General* (2018), <https://doi.org/10.1016/j.apcata.2018.09.023>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Supported metal oxide nanoparticle electrocatalysts: How immobilization affects catalytic performance

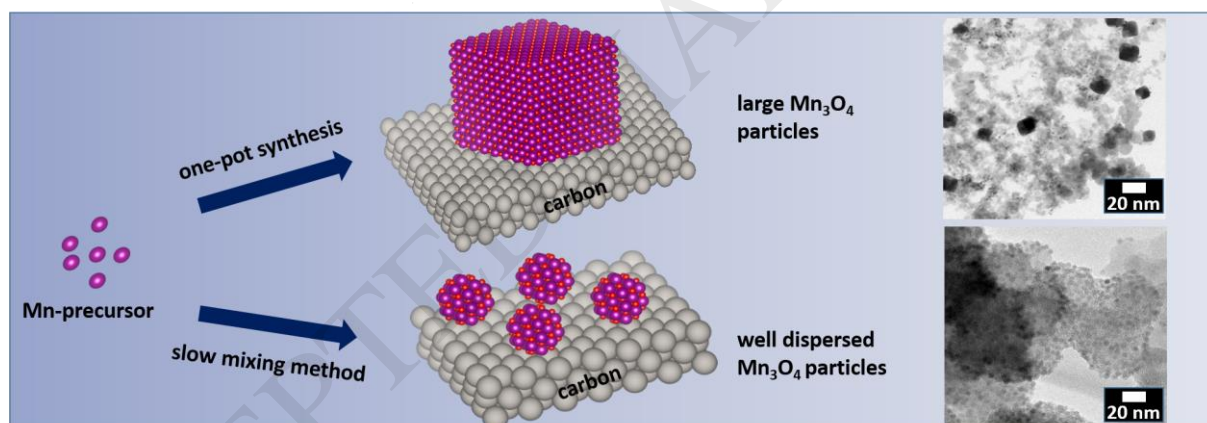
Manuel Gliech¹, Malte Klingenhof¹, Mikaela Görlin^{1, 2}, and Peter Strasser¹ *

¹ Department of Chemistry, Technical University Berlin, Straße des 17. Juni 124, 10623 Berlin, Germany

² Present Address: Mikaela Görlin[†] Stockholm University, Department of Physics, Alba Nova University Center, 10691, Stockholm, Sweden

*Corresponding Author: Peter Strasser; email: pstrasser@tu-berlin.de

Graphical abstract



Highlights

- The first evaluation of most common immobilization techniques and the development of a highly reproducible technique for oxide materials
- The efficiency of the immobilization techniques is monitored by loading and mass based electrochemical measurements show the utilization of the active material
- The results can be used to optimize the preparation of supported oxide catalysts for a broad spectrum of heterogeneous catalytic processes

Download English Version:

<https://daneshyari.com/en/article/11017587>

Download Persian Version:

<https://daneshyari.com/article/11017587>

[Daneshyari.com](https://daneshyari.com)