

List of publications: Dr. Mark Greiner

2020

- Ma, Y., Ren, Y., Zhou, Y., Liu, W., Baaziz, W., Ersen, O., Pham-Huu, C., **Greiner, M.**, Chu, W., Wang, A., Zhang, T Liu, Y. (2020). High-Density and Thermally Stable Palladium Single-atom Catalysts for Chemoselective Hydrogenations *Angewandte Chemie International Edition* 59(48), 21613-21619. <https://doi.org/10.1002/anie.202007707>
- Cao, J., Plodinec, M., Huang, X., Willinger, E., Hammud, A., Hieke, S., Beeg, S., Greogoratti, L., Clobea, C., Schlögl, R., Antonietti, M., **Greiner, M.**, Willinger, M. (2020). In situ observation of oscillatory redox dynamics of copper *Nature Communications* 11, 3554. <https://doi.org/10.1038/s41467-020-17346-7>
- Tougaard, S., **Greiner, M.** (2020). Method to correct ambient pressure XPS for the distortion caused by the gas *Applied Surface Science* 530, 147243. <https://doi.org/10.1016/j.apsusc.2020.147243>
- Ding, Y., **Greiner, M.**, Schlögl, R., Heumann, S. (2020). A Metal Free Electrode: From Biomass Derived Carbon to Hydrogen *ChemSusChem* 13(16), 4064-4068. <https://doi.org/10.1002/cssc.202000714>
- Schweinar, K., Beeg, S., Hartwig, C., Rajamathi, C.R., Kasian, O., Piccinin, S., Prieto, M.J., Tanase, L.C., Gottlob, D.M., Schmidt, T., Raabe, D., Schlögl, R., Gault, B., Jones, T.E., **Greiner, M.T.** (2020). Formation of a 2D meta-stable oxide by differential oxidation of AgCu alloys *ACS Applied Materials & Interfaces* 12(20), 23595-23605. <https://doi.org/10.1021/acsami.0c03963>
- Schweinar, K., Nicholls, R.L., Rajamathi, C.R., Zeller, P., Amati, M., Gregoratti, L., Raabe, D., **Greiner, M.**, Gault, B., Kasian, O. (2020). Probing catalytic surfaces by correlative scanning photoemission electron microscopy and atom probe tomography *Journal of Materials Chemistry A* 8(1), 388-400. <https://doi.org/10.1039/c9ta10818a>

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- Frei, E., Gaur, A., Lichtenberg, H., Heine, C., Friedrich, M., **Greiner, M.**, Lunkenbein, T., Grunwaldt, J.-D., Schlögl, R. (2019). Activating a Cu/ZnO:Al Catalyst – much more than Reduction: Decomposition, Self-doping and Polymorphism *ChemCatChem* 11(6), 1587-1592. <https://doi.org/10.1002/cctc.201900069>
- Schweiner, K., Kasian, O., Nicholls, R.L., Rajamathi, C.R., Zeller, P., Amati, M., Gregoratti, L., Raabe, D., **Greiner, M.**, Gault, B. (2019). An Integrated Workflow To Investigate Electrocatalytic Surfaces By Correlative X-ray Photoemission Spectroscopy, Scanning Photoemission Electron Microscopy and Atom Probe Tomography *Microscopy and Microanalysis* 25(S2), 306-307. <https://doi.org/10.1017/S1431927619002265>

2018

- Rodenas, T., Beeg, S., Spanos, I., Neugebauer, S., Girgsdies, F., Algara-Siller, G., Schleker, P.P.M., Jakes, P., Pfänder, N., Willinger, M., **Greiner, M.**, Prieto, G., Schlögl, R., Heumann, S. (2018). 2D Metal Organic Framework-Graphitic Carbon Nanocomposites as Precursors for High-Performance O₂-Evolution Electrocatalysts *Advanced Energy Materials* 8(35), 1802404. <https://doi.org/10.1002/aenm.201802404>

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- Cao, J., Wang, Z.-J., Huang, X., Rinaldi, A., **Greiner, M.**, Moldovan, G., Joachimi, W., Schlögl, R., Willinger, M. (2018). The ESEM as In Situ Platform for the Study of Gas-Solid Interactions *Microscopy and Microanalysis* 24(S1), 344-345. <https://doi.org/10.1017/S1431927618002210>
- Jones, T.E., Wyrwich R., Böcklein S., Carbonio E.A., **Greiner M.T.**, Klyuschin A.Y., Moritz W., Locatelli A., Montes T.O., Nino M.A., Knop-Gericke A., Schlögl R., Günther S., Wintterlin J., Piccinin, S. (2018). The selective species in ethylene epoxidation on silver *ACS Catalysis* 8(5), 3844-3852. <https://doi.org/10.1021/acscatal.8b00660>
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- **Greiner, M.T.**, Jones, T., Klyushin, A., Knop-Gericke, A., Schlögl, R. (2017). Ethylene epoxidation at the phase transition of copper oxides *Journal of the American Chemical Society*, 139(34), 11825-11832. <https://doi.org/10.1021/jacs.7b05004>

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- Klyushin, A., **Greiner, M.T.**, Huang, X., Lunkenbein, T., Li, X., Timpe, O., Friedrich, M., Hävecker, M., Knop-Gericke, A., Schlögl, R. (2016). Is nanostructuring sufficient to get catalytically active Au? *ACS Catalysis* 6(5), 3372-3380. <https://doi.org/10.1021/acscatal.5b02631>
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