

Dr. Wei Xia

Full List of Publications

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2014 (*corresponding author)

81. Justus Masa, **Wei Xia**, Ilya Sinev, Anqi Zhao, Zhenyu Sun, Stefanie Grützke, Philipp Weide, Martin Muhler* and Wolfgang Schuhmann*
MnxOy/NC and CoxOy/NC nanoparticles embedded in a nitrogen-doped carbon matrix for high performance bifunctional oxygen electrodes
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80. Anqi Zhao, Justus Masa, **Wei Xia**, Artjom Maljusch, Marc-Georg Willinger, Guylhaine Clavel, Kunpeng Xie, Robert Schlögl, Wolfgang Schuhmann*, Martin Muhler*
Spinel Mn-Co oxide in N-doped Carbon Nanotubes as Bifunctional Electrocatalyst Synthesized by Oxidative Cutting
J. Am. Chem. Soc. 136 (2014) 7551–7554. DOI: [10.1021/ja502532y](https://doi.org/10.1021/ja502532y)
79. Ly May Chew, Praewpilin Kangvansura, Holger Ruland, Hendrik J Schulte, Christoph Somsen, **Wei Xia**, Gunther Eggeler, Attera Worayingyong, Martin Muhler*
Effect of nitrogen doping on the reducibility, activity and selectivity of carbon nanotube-supported iron catalysts applied in CO₂ hydrogenation
Appl. Catal. A. 482 (2014) 163–170. DOI: [10.1016/j.apcata.2014.05.037](https://doi.org/10.1016/j.apcata.2014.05.037)
78. Edgar Ventosa*, Anna Tymoczko, Kunpeng Xie, **Wei Xia**, Martin Muhler and Wolfgang Schuhmann
Low temperature hydrogen reduction of high surface area anatase TiO₂ and anatase/(B) TiO₂ applied in high charging rate Li-ion batteries
ChemSusChem (2014) DOI: [10.1002/cssc.201402279](https://doi.org/10.1002/cssc.201402279)
77. Kristian Voelskow, Michael J. Becker, **Wei Xia**, Martin Muhler, Thomas Turek*
The influence of kinetics, mass transfer and catalyst deactivation on the growth rate of multiwalled carbon nanotubes from ethene on a cobalt-based catalyst
Chem. Eng. J. 244 (2014) 68-74. DOI: [10.1016/j.cej.2014.01.024](https://doi.org/10.1016/j.cej.2014.01.024)
76. Hongyang Zhao, Luxiang Wang, Dianzeng Jia*, **Wei Xia**, Jun Li, Zaiping Guo
Coal based activated carbon nanofibers prepared by electrospinning
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75. Tao Wang, Luxiang Wang, Dongling Wu, **Wei Xia**, Hongyang Zhao and Dianzeng Jia*
Hydrothermal synthesis of nitrogen-doped graphene hydrogel using amino acid with different acidities as doping agent
J. Mater. Chem. A 2 (2014) 8352-8361. DOI: [10.1039/C4TA00170B](https://doi.org/10.1039/C4TA00170B)

- *74. Peirong Chen, Fengkai Yang, Aleksander Kostka, **Wei Xia***
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73. Ly May Chew, Holger Ruland, Hendrik J. Schulte, **Wei Xia**, Martin Muhler*
CO₂ hydrogenation to hydrocarbons over iron nanoparticles supported on oxygen-functionalized carbon nanotubes
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72. Justus Masa*, Anqi Zhao, **Wei Xia**, Martin Muhler, Wolfgang Schuhmann
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Carbon nanotube-supported Pt nanoparticles for selective olefin hydrogenation: the influence of the residual growth catalyst and the surface functional groups
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