

Publication List of Christoph Topf

18. S. Lange, S. Elangovan, C. Cordes, A. Spannenberg, H. Jiao, H. Junge, S. Bachmann, M. Scalone, **C. Topf**, K. Junge, M. Beller, „Selective Catalytic Hydrogenation of Nitriles to Primary Amines Using Iron Pincer Complexes“ *Catal. Sci. Technol.* **2016**, 6, 4768-4772.
<http://pubs.rsc.org/en/content/articlelanding/2015/cy/c6cy00834h#!divAbstract>.
17. F. Chen, **C. Topf**, C. Kreyenschulte, H. Lund, M.-M. Pohl, J. Radnik, M. Schneider, L. He, K. Junge, M. Beller, „Stable and Inert Cobalt Catalysts for Highly Selective and Practical Hydrogenation of C≡N and C=O Bonds“ *J. Am. Chem. Soc.* **2016**, 138, 8781-8788.
<http://pubs.acs.org/doi/abs/10.1021/jacs.6b03439>
16. S. Elangovan, **C. Topf**, S. Fischer, H. Jiao, A. Spannenberg, W. Baumann, R. Ludwig, K. Junge, M. Beller, „Selective Catalytic Hydrogenations of Nitriles, Ketones and Aldehydes by Well-Defined Manganese Pincer Complexes“ *J. Am. Chem. Soc.* **2016**, 138, 8809-8814.
<http://pubs.acs.org/doi/abs/10.1021/jacs.6b03709>
15. X. Cui, A.-E. Surkus, K. Junge, **C. Topf**, J. Radnik, C. Kreyenschulte, M. Beller, „Highly Selective Hydrogenation of Arenes using Nanostructured Ruthenium Catalysts modified with a Carbon-Nitrogen Matrix“ *Nat. Commun.* **2016**, 7, 11326.
<http://www.nature.com/articles/ncomms11326>
14. D. Formenti, **C. Topf**, K. Junge, F. Ragaini and M. Beller, „Fe₂O₃/NGr@C- and Co-Co₃O₄/NGr@C-catalysed hydrogenation of nitroarenes under mild conditions“ *Catal. Sci. Technol.* **2016**, 6, 4473-4477.
<http://pubs.rsc.org/en/content/articlelanding/2016/cy/c5cy01925g#!divAbstract>
13. S. Elangovan, B. Wendt, **C. Topf**, S. Bachmann, M. Scalone, A. Spannenberg, W. Baumann, K. Junge, M. Beller, „Improved Second Generation Iron Pincer Complexes for Effective Ester Hydrogenation“ *Adv. Synth. Catal.* **2016**, 5, 820-825.
<http://onlinelibrary.wiley.com/doi/10.1002/adsc.201500930/abstract>
12. S. Pisiewicz, D. Formenti, A.-E. Surkus, M.-M. Pohl, J. Radnik, K. Junge, **C. Topf**, S. Bachmann, M. Scalone, M. Beller, „Synthesis of novel nickel nanoparticles with N-doped graphene shells for catalytic reductions“ *ChemCatChem* **2016**, 8, 129-134.
<http://onlinelibrary.wiley.com/doi/10.1002/cctc.201500848/abstract>
11. F. Chen, A.-E. Surkus, L. He, M.-M. Pohl, J. Radnik, **C. Topf**, K. Junge, M. Beller, „Selective Catalytic Hydrogenation of Heteroarenes with N-Graphene-modified Cobalt

- Nanoparticles (Co₃O₄-Co/NGr@ α -Al₂O₃)“ *J. Am. Chem. Soc.* **2015**, 137, 11718-11724.
<http://pubs.acs.org/doi/abs/10.1021/jacs.5b06496>
10. X. Cui, Y. Li, S. Bachmann, M. Scalone, A.-E. Surkus, K. Junge, **C. Topf**, M. Beller, „Synthesis and Characterization of Iron-Nitrogen-Doped Graphene/Core Shell Catalysts: Efficient Oxidative Dehydrogenation of *N*-Heterocycles“ *J. Am. Chem. Soc.* **2015**, 137, 10652-10658. <http://pubs.acs.org/doi/abs/10.1021/jacs.5b05674>
 9. T. Stemmler, F. Chen, S. Pisiewicz, A.-E. Surkus, M.-M. Pohl, **C. Topf**, M. Beller, „Design of *N*-Doped Graphene-Coated Cobalt-Based Nanoparticles Supported on Ceria“ *J. Mater. Chem. A* **2015**, 3, 17728-17737.
<http://pubs.rsc.org/en/content/articlelanding/2015/ta/c5ta02745d#!divAbstract>
 8. X. Cui, Y. Li, **C. Topf**, K. Junge, M. Beller, „Direct Ruthenium-Catalyzed Hydrogenation of Carboxylic Acids to Alcohols“ *Angew. Chem. Int. Ed.* **2015**, 54, 10596-10599.
<http://onlinelibrary.wiley.com/doi/10.1002/anie.201503562/abstract>
 7. Y. Li, **C. Topf**, X. Cui, K. Junge, M. Beller, „Lewis Acid Promoted Ru(II)-Catalyzed Etherifications by Selective Hydrogenation of Carboxylic Acids/Esters“ *Angew. Chem. Int. Ed.* **2015**, 54, 5196-5200. <http://onlinelibrary.wiley.com/doi/10.1002/anie.201500062/abstract>
 6. **C. Topf**, U. Monkowius, G. Knoer, „Design, Synthesis and Characterization of a Modular Bridging Ligand Platform for Bio-inspired Hydrogen Production“ *Inorg. Chem. Commun.* **2012**, 21, 147-150.
http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&_ArticleListID=-1038782096&_sort=r&_st=13&_view=c&_md5=efdbf0d1f9437be55fa446fa255a5a51&_searchtype=a
 5. **C. Topf**, S. Leitner, M. List, U. Monkowius, „ μ_3 -Chlorido-tris(bis{1-[2-(dimethylamino)ethyl]-3-methylimidazol-2-ylidene}silver(I)) dichloride“ *Acta Cryst.* **2012**, E68, m272. <http://journals.iucr.org/e/issues/2012/03/00/bt5811/stdsup.html>
 4. **C. Topf**, C. Hirtenlehner, M. Fleck, M. List, U. Monkowius, „Synthesis and Characterization of gold(III) complexes bearing a picoline functionalized *N*-heterocyclic carbene“ *Z. Anorg. Allg. Chem.* **2011**, 637, 2129-2134.
<http://onlinelibrary.wiley.com/doi/10.1002/zaac.201100341/abstract>
 3. **C. Topf**, C. Hirtenlehner, U. Monkowius, „Synthesis and Characterization of Silver(I), Gold(I), and Gold(III) Complexes bearing a Bis-Dialkylamino-functionalized *N*-heterocyclic Carbene“ *J. Organomet. Chem.* **2011**, 696, 3274-3278.

<http://www.sciencedirect.com/science/article/pii/S0022328X11004141>

2. **C. Topf**, C. Hirtenlehner, M. Zabel, M. List, M. Fleck, U. Monkowius, "Synthesis and Characterization of Ag(I), Au(I), and Au(III) Complexes bearing Amino-functionalized *N*-Heterocyclic Carbenes" *Organometallics* **2011**, 30, 2755-2764
<http://pubs.acs.org/doi/abs/10.1021/om2000713?mi=v26mvl&af=R&pageSize=20&abstract=heterocyclic+amine&>
1. F. Schäffler, C. Winder, M. Drees, H. Hoppe, H. Neugebauer, R. Gaudiana, W. Schwinger, **C. Topf**, M. C. Scharber, Z. Zhu, S. N. Sariciftci, "Stabilization of the nanomorphology of polymer-fullerene bulk heterojunction blends using a novel polymerizable fullerene derivative" *Journal of Materials Chemistry* **2005**, 15, 5158.
<http://pubs.rsc.org/en/content/articlelanding/2005/jm/b505361g#!divAbstract>