

## Publication List

### A) Contribution to books

A. Devaux, F. Cucinotta, S. Kehr, L. De Cola, (2010): Functionalization and Assembling of Inorganic Nanocontainers for Optical and Bio-medical Applications in Functional Supramolecular Architectures for Organic Electronics and Nanotechnology. Germany. Wiley VCH.

### B) Articles in journals

- (22) K. Benson, Y. E. A. Prasetyanto, H.-J. Galla, N. S. Kehr\*, "Bifunctional periodic mesoporous organosilicas and their self-assembled monolayers as biocompatible surfaces" *Adv. Funct. Mater.*, **2012**, submitted.
- (21) F. Versluis, J. Voskuhl, M.C.A Stuart, N. S. Kehr, B. J. Ravoo, A. Kros, "Power Struggles between oligopeptides and Cyclodextrin Vesicles" *Chem. Sci.*, **2012**, submitted.
- (20) A. J. Ruiz-Sanchez, M. I. Montañez, C. Mayorga, M. J. Torres, N. S. Kehr, Y. Vida, D. Collado, F. Najera, L. De Cola, E. Perez-Inestrosa, "Dendrimer-Modified Solid Supports: Nanostructured Materials with Potential Drug Allergy Diagnostic Applications", **2012**, in revision.
- (19) J. El-Gindi, K. Benson, L. De Cola, H.-J. Galla, N. S. Kehr\*, "Cell Adhesion Behaviour on Enantiomerically Functionalized Zeolite L Monolayers" *Angew. Chem. Int. Ed.*, **2012**, DOI: 10.1002/anie.201109144.
- (18) O. Z. Fisher, B. L. Larson, D. Graupner, M. T. Nguyen-Kim, N. S. Kehr, L. De Cola, R. Langer, D. G. Anderson, "cMelanic Hydrogels Derived From Gallic Macromers" *Adv. Mater.* **2011**, accepted.
- (17) N. S. Kehr\*, J. El-Gindi, H. J. Galla, L. De Cola, "Click Chemistry on Self-assembled Monolayer of Zeolite L Crystals by Microcontact Printing - Applications in Nanobiotechnology" *Mic. Mes. Mater.*, **2011**, 144, 9-14.
- (16) N. S. Kehr\*, K. Riehemann, J. El-Gindi, A. Schäfer, H. Fuchs, H. J. Galla, L. De Cola, "Cell Adhesion and Cellular Patterning on a Self-Assembled Monolayer of Zeolite L Crystals" *Adv. Funct. Mater.*, **2010**, 20, 2248-2254.
- (15) N. S. Kehr\*, A. Schäfer, B. J. Ravoo, L. De Cola, "Asymmetric printing of molecules and zeolites on self assembled monolayers" *Nanoscale*, **2010**, 2, 601-605.
- (14) F. Verluis, I. Tomatsu, S. Kehr, C. Fregonese, M. Stuart, B. J. Ravoo, R. Koning, A. Kros, "Shape and Release Control of a Peptide Decorated Vesicle through pH Sensitive Orthogonal Supramolecular Interactions" *J. Am. Chem. Soc.*, **2009**, 131, 13186-13187.
- (13) K. Nienkemper, G. Kehr, S. Kehr, R. Fröhlich, G. Erker, "(N-Arylaminoethyl)pyridine-N-oxides: Synthesis and characterization of potential ligand systems and the formation of their N,O-chelate aluminum complexes" *J. Org. Chem.*, **2008**, 18, 3063- 3073.

- (12) K. Spanhoff, G. Kehr, S. Kehr, R. Fröhlich, G. Erker, "Functionalized phosphorus analogues of the  $\beta$ -diketiminato ligand systems: bis(*N*-arylphosphinimino)acetonitrile-derived complexes of rhodium and iridium" *Dalton Trans.*, **2008**, 25, 3339-3344.
- (11) K. Nienkemper, G. Kehr, S. Kehr, R. Fröhlich, G. Erker, "(Amidomethyl)pyridine zirconium and hafnium complexes: Synthesis and structural characterization" *J. Org. Chem.*, **2008**, 693, 1572-1589.
- (10) H. Lange, K. Bergander, R. Fröhlich, S. Kehr, S. Nakamura, N. Shibata, T. Toru, D. Hoppe, "Highly enantioselective reactions of configurationally labile epimeric diamine complexes of lithiated *S*-benzyl thiocarbamates" *Chem. Asian J.*, **2008**, 3, 88-101.
- (9) P. Spies, G. Kehr, S. Kehr, R. Fröhlich, G. Erker, "Formation and Structural and Dynamic Features of Atropisomeric  $\eta^2$ -Iminoacyl Zirconium Complexes" *Organometallics*, **2007**, 26, 5612-5620.
- (8) S. Kehr, H. Luftmann, "Polymer characterization by electrospray-mass-spectrometry - shifting the upper mass limit" *e-Polymers*, **2007**, 10.
- (7) S. Ünalı, R. Fröhlich, D. Hoppe, "Synthesis of enantioenriched and diastereomerically pure *cis*-fused bicyclic  $\alpha$ -oxy-substituted  $\gamma$ -lactones via epoxidation of optically active homoaldol products" *Synthesis*, **2005**, 15, 2507-2520.
- (6) R. Kalkoven, S. Brandau, S. Ünalı, R. Fröhlich, D. Hoppe, "Enantio- and diastereoselective synthesis of highly substituted acylcyclopropanes from homoaldol products by stereospecific homoallylic cyclization" *Eur. J. Org. Chem.*, **2005**, 21, 4571-4580.
- (5) S. Ünalı, M. Özlügedik, R. Fröhlich, D. Hoppe, "Diastereoselective synthesis of enantioenriched, annulated tetrahydrofurans by simultaneous formation of the O-1-C-5 and the C-5-C-4 bonds" *Adv. Synth. Cat.*, **2005**, 347, 1621-1626.
- (4) M. Özlügedik, S. Ünalı, B. Wibbeling, D. Hoppe, "Synthesis of enantioenriched *trans*-fused bicyclo[4.4.0]-dec-3-enes and bicyclo[4.3.0]non-3-enes bearing a 1,5-lactone bridge" *Adv. Synth. Cat.*, **2005**, 347, 1627-1631.
- (3) S. Ünalı, R. Fröhlich, R. Aumann, "Organic synthesis via transition metal complexes, part 120. C-C insertion: Insertion of an alkyne into the C-C single bond between the carbene-carbon atom and the  $\alpha$ -carbon atom of a Fischer carbene complex by an unprecedented metalla(*di*- $\pi$ -methane) skeletal rearrangement" *Chem. Eur. J.*, **2003**, 9, 3000-3009.
- (2) R. Altundas, A. Dastan, Arif; S. Ünalı, K. Guven, O. Uzun, M. Balci, "The *di*- $\pi$ -methane photorearrangement of 2,3-Disubstituted benzobarrelenes and benzonorborene - substituent effects in regioselectivity" *Eur. J. Org. Chem.*, **2002**, 3, 526-533.
- (1) S. Ünalı, M. Balci, "Substituent effect on regioselectivity in the *di*- $\pi$ -methane rearrangement: synthesis of disubstituted benzobarrelene derivatives and their photochemistry" *Tetrahedron Lett.*, **2001**, 42, 8365-8367.