

## Publications since 2012

261. Alexandrina Nan, Rodica Turcu, Jürgen Liebscher  
“Magnetite-poly(lactic acid) core-shell nanoparticles by ring opening polymerization under microwave irradiation”  
*J. Polymer Sci. A: Polymer Chem.* **2012**, *50*, 1485-1490.
262. Sebastian Karsten, Alexandrina Nan, Rodica Turcu, J. Liebscher  
„A New Access to Polypyrrole-Based Functionalized Magnetic Core-Shell Nanoparticles“  
*J. Polymer Sci. A: Polymer Chem.* **2012**, *50*, 3986-3995.
263. Radoslaw Mrowczynski, Lidia Rednik, Rodica Turcu, Jürgen Liebscher  
“One-step ligand exchange reaction as an efficient way for functionalization of magnetic nanoparticles”  
*J. Nanoparticle Res.* **2012**, *14*, 985.
264. Sebastian Karsten, Alexandrina Nan, Jürgen Liebscher  
„Linking applicatory functions to the 3-position of pyrrole by click chemistry”  
*Arkivoc* **2012**, (ix) 204-219.
265. Zekarias Yacob, Alexandrina Nan, Jürgen Liebscher  
“Proline-Functionalized Magnetic Core-Shell Nanoparticles as Efficient and Recyclable Organocatalysts for Aldol Reactions”  
*Adv. Synth. Cat.* **2012**, *354*, 3259-3264.
266. Matthias Schade, Andrea Knoll, Alexander Vogel, Oliver Seitz, Jürgen Liebscher, Daniel Huster, Andreas Herrmann, Anna Arbuzova  
Remote control of lipophilic nucleic acids domain partitioning by DNA hybridization and enzymatic cleavage  
*J. Am. Chem. Soc.* **2012**, *134*, 20490-20497, doi.org/10.1021/ja309256t
267. Radoslaw Mrowczynski, Rodica Turcu, Cristian Leostean, Holger A. Scheidt, Jürgen Liebscher  
“New versatile polydopamine coated functionalized magnetic nanoparticles”  
*Mat. Chem. Phys.* **2013**, *138*, 295-302.
268. Alexander Bunge, Hans-Jürgen Hamann, Dennis Dietz, Jürgen Liebscher  
„Enantioselective epoxidation of tertiary allylic alcohols by chiral dihydroperoxides”  
*Tetrahedron*, **2013**, *69*, 2446-2450.
269. Crina Socaci, Miriam Rybka, Lidia Magerusan, Alexandrina Nan, Rodica Turcu, Jürgen Liebscher  
“Magnetite nanoparticles coated with alkyne-containing polyacrylates for click-chemistry”  
*J. Nanoparticle Res.* **2013**, *15*:1747

270. Jürgen Liebscher, R. Mrowczynski, Holger A. Scheidt, Claudiu Filip, Niculina Hadade, Attila Bende, Rodica Turcu, Sebastian Beck  
“The Structure of Polydopamine – A Never Ending Story?”  
*Langmuir* **2013**, 29 (33), 10539-10548. DOI 10.1021/la4020288
271. Radoslaw Mrowczynski, Alexandrina Nan, Jürgen Liebscher  
„Magnetic nanoparticle-supported organocatalysts an efficient way of recycling and reuse”  
*RSC Advances*, **2014**, 4, 5927-5952
272. Radoslaw Mrowczynski, Alexander Bunge, Jürgen Liebscher  
„Polydopamine – An Organocatalyst Rather than an Innocent Polymer”  
*Chem. Eur. J.* **2014**, 20, 8647 – 8653. DOI 10.1002/chem..201402532
273. Daniela Serien, Christiane Grimm, Jürgen Liebscher, Andreas Herrmann, Anna Arbuzova  
“DNA-controlled aggregation of virus like particles – mimicking a tetherin-like mechanism”  
*New J. Chem.* **2014**, 38, 5181-5185. DOI 10.1039/c4nj00724g.
274. Radoslaw Mrówczyński, Lidia Magerusan, Rodica Turcu, Jürgen Liebscher  
“Diazo transfer at polydopamine – a new way to functionalization”  
*Polym. Chem.*, **2014**, 5, 6593-6599, DOI: 10.1039/C4PY00670D
275. Radoslaw Mrowczynski, Alexandrina Nan, Rodica Turcu, Joachim Leistner, Jürgen Liebscher  
„Polydopamine a versatile coating for surface initiated ring opening polymerization of lactide to polylactide”  
*Macromol. Chem. Phys.* **2015**, 216, 211-217. DOI: 10.1002/macp.201400380.
276. Luisa Losensky, Salvo Chiantia, Gudrun Holland, Michael Laue, Anca Petran, Jürgen Liebscher, Anna Arbuzova  
„Self-assembly of a cholesteryl-modified nucleoside into tubular structures from giant unilamellar vesicles”  
*RSC Advances* **2015**, 4502-4510, DOI 10.1039/C4RA11289J
277. Anca Petran, Radoslaw Mrowczynski, Claudiu Filip, Rodica Turcu, Jürgen Liebscher  
“Melanin-like polydopa amides – synthesis and application in functionalization of magnetic nanoparticles”  
*Polymer Chem.* **2015**, 6, 2139-2149, DOI: 10.1039/c4py01467g
278. Crina Socaci, Lidia Magerusan, Rodica Turcu, Jürgen Liebscher  
“Developing novel strategies for the functionalization of core-shell magnetic nanoparticles with folic acid derivatives”  
*Mat. Chem. Phys.* **2015**, 162, 131-139.

/dx.doi.org/10.1016/j.matchemphys.2015.05.046

279. Alexander Bunge, Lidia Magerusan, Ion Morjan, Rodica Turcu, Gheorghe Borodi, Jürgen Liebscher  
“Diazonium salt-mediated synthesis of new amino, hydroxy, propargyl, and maleinimido-containing superparamagnetic Fe@C nanoparticles as platforms for linking bio-entities or organocatalytic moieties”  
*J. Nanopart. Res.* **2015**, 17:379
280. Luisa Losensky, Björn Goldenbogen, Gudrun Holland, Michael Laue, Anca Petran, Jürgen Liebscher, Holger A. Scheidt, Alexander Vogel, Daniel Huster Edda Klipp, Anna Arbuzova  
“Micro- and nano-tubules built from loosely and tightly rolled up thin sheets”  
*PhysChemChemPhys* **2016**, 18, 1292-1301.  
DOI 10.1039/c5cp06084b
281. Radoslaw Mrowczynski, Roksana Markiewicz, Jürgen Liebscher  
“Chemistry of polydopamine analogues”  
*Polym. Int* **2016**, 65, 1288-1299  
DOI 10.1002/pi.5193
282. Monica Circu, Alexandrina Nan, Gheorghe Borodi. Jürgen Liebscher, Rodica Turcu  
“Refinement of magnetic nanoparticles by coating with organic stabilizers”  
*Nanmaterials* **2016**, 6, 228 (12 pages)  
DOI 10.3390/nano6120228
283. Izabella Craciunescu, Anca Petran, Jürgen Liebscher, Ladislau Vekas, Rodica Turcu  
“Synthesis and characterization of size-controlled magnetic clusters functionalized with polymer layer for wastewater depollution”  
*Mat. Chem. Phys.* **2017**, 185, 91-97  
DOI 10.1016/j.matchemphys.2016.10.009
284. Anca Petran, Niculina D. Hadade, Claudiu Filip, Xenia Filip, Attila Bende. Adriana Popa, Jürgen Liebscher  
“Poly[3,4-dihydroxybenzhydrazide]: A Polydopamine Analogue?”  
*Macromol. Chem. Phys.* **2018**, 1700564  
DOI: 10.1002/macp.201700564
285. Jürgen Liebscher  
“Chemistry of Polydopamine – Scope, Variation, and Limitation”  
*Eur. J. Org. Chem.* **2019**, 4976 – 4994 (Very important paper)  
DOI: 10.1002/ejoc.201900445
286. Anca Petran, Adriana Pop, Niculina D. Hadade, Jürgen Liebscher  
“New insights into catechol oxidation – application of ammonium peroxydisulfate in the presence of arylhydrazines”  
*ChemistrySelect* **2020**, 5, 9523 – 9530

DOI: 10.1002/slct.202002370

287. Ralph Springer, Jürgen Liebscher  
“New tocopherol derivatives for functionalization of amino or carboxyl groups with lipid anchors”  
*Rev. Roum. Chim.* **2020**, 65 (6), 517 – 528  
DOI: 10.33224/rch.2020.65.6.01

## Books

- J. Liebscher: "1,3-Thiazole" in *Houben-Weyl, Methoden der Organischen Chemie*, Thieme Verlag, Stuttgart, **1994** Bd. E8b, Teil 2, S. 1 - 399,
- M. Bohle, J. Liebscher: "Ring Contraction of Heterocycles by Sulfur Extrusion" in *Advances in Heterocyclic Chemistry*, ed. A. R. Katritzky, Academic Press, **1996**, 65, 39 - 92
- V. G. Granik, A. V. Kadushkin, J. Liebscher: "Synthesis of Amino Derivatives of Five Membered Heterocycles by Thorpe-Ziegler Cyclisation" in *Advances in Heterocyclic Chemistry*, ed. A. R. Katritzky, **1998**, 72, 79-125
- H. J. Hamann, E. Höft, J. Liebscher: "Preparation of Optically Active Hydroperoxides and their Use for Stereoselective Oxygen Transfer" in *Peroxide Chemistry, Mechanistic and Preparative Aspects of Oxygen Transfer*, DFG (Ed. W. Adam), Wiley-VCH 2000, S. 381 - 405.
- M. Pätzelt, S. Pritz, J. Liebscher: "α-Heteroatom-Substituted Alkanamides" in *Science of Synthesis*, Georg Thieme Verlag Stuttgart, **2005** Bd. 21 (Volume editor: S. Weinreb), 447 – 535.
- Z. Yacob, **J. Liebscher**: "1,2,3-Triazolium Salts as a Versatile New Class of Ionic Liquids" in *Ionic Liquids – Classes and Properties*, InTech, **2011** part 1, chapter 1 (editor S. T. Handy), p. 3 – 22, ISBN 978-953-307-634-8.
- A. Nan, **J. Liebscher**: "Ionic Liquids as Advantageous Solvents for Preparation of Nanostructures" in *Applications of Ionic Liquids in Science and Technology*, InTech, **2011**, part 4, chapter 14 (editor S. T. Handy), p. 287 – 308, ISBN 978-953-307-605-8
- A. Nan, I. Craciunescu, R. Turcu, "Conducting Polypyrrole Shell as a Promising Covering for Magnetic Nanoparticles", in "Fundamentals and Applications of Conducting Polymers", Ed. by Artur Motheo, INTECH Open Access Publisher, Chapter 8, (pp 159-182), ISBN: 979-953-307-696-5, 2012.
- Z. Yacob, J. Liebscher: „Chemistry of 1,2,3-Triazolium Salts”, in *Topics in Heterocyclic Chemistry*, **2014**, 40, 167-210.