Research Profile Rainer Jordan

1) General Information

Name:	Rainer Jordan, Prof. Dr.
Date of Birth:	25.08.1967
Gender:	Male
Address:	TU Dresden, Chair of Macromolecular Chemistry, Mommsenstr. 4, 01069 Dresden, Germany
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Current position:	Professor, W3
Family status:	Married, 2 children

2) Academic Education

Study of Chemistry (1986 – 1993), Universität Mainz, Dipl.-Chem., Prof. K.K. Unger
Study of Chemistry (1989 – 1990), Kyoto University, IAS-Fellow, Prof. T. Saegusa

3) Scientific Education

Habilitation:	Chemistry, TU München, 2004, Prof. O. Nuyken
PhD graduation:	Dr. rer. nat., Universität Mainz, 1996, Prof. K.K. Unger

4) Career

2009 – present	Professor for Macromolecular Chemistry, TU Dresden
2004 – 2008	Akademischer Oberrat (C1), TU München
1998 – 2008	Assistant Professor Research, Polytechnic University, Brooklyn, NY
1996 – 1998	DFG-PostDoc-Fellow, Polytechnic University, Brooklyn, NY (Prof. A. Ulman)
1993 – 1996	PROCOPE-Fellow, C.N.R.S. Paris (Prof. B. Sebille)

5) Other

Selected other professional activities:

since 2018	Vice-President and Cofounder of DelAqua Pharmaceuticals Inc.
since 2016	Dean of Studies, Faculty of Chemistry and Food Chemistry, TU Dresden
since 2010	Faculty advisory board member for Boston University
since 2009	Editorial board member of Journal of Colloid Polymer Science, Springer
since 2009	(Co-) Organizer of the Biannual Dresden Polymer Discussions
since 2000	reviewer for: DFG, ERC, EC, NIH, NSF, AvH, DAAD, ISF, PRF and others
2014 – 2017	Speaker of the Dresden Initiative for Bioactive Interfaces and Materials (DIB)
2008 – 2011	Consultant to Serina Therapeutics Inc.

6) Publications

a) List of ten most important publications

[1] Y. Che, T. Zhang, Y. Du, I. Amin, C. Marschelke, R. Jordan, **"On water" Surface-initiated Polymerization of Hydrophobic Monomers** *Angew. Chem. Int. Ed.* **2018**, in print. (DOI:10.1002/anie.201809100)

[2] T. Zhang, Z. Liao, L. M. Sandonas, A. Dianat, P. Xiao, I. Amin, X. Liu, R. Gutierrez, T. Chen, E. Zschech, G. Cuniberti, R. Jordan, **Polymerization Driven Monomer Passage Through Monolayer Chemical Vapour Deposition Graphene** *Nat. Commun.* **2018,** *9*, 4051.

[3] T. Zhang, Y. Hou, V. Dzhagan, Z. Liao, G. Chai, M. Löffler, D. Olianas, A. Milani, S. Xu, M. Tommasini, D. R. T. Zahn, Z. Zheng, E. Zschech, R. Jordan, X. Feng, **Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes** *Nat. Commun.* **2018,** *9*, 1140.

[4] M. Steenackers, A. M. Gigler, N. Zhang, F. Deubel, M. Seifert, L. H. Hess, C. H. Y. X. Lim, K. P. Loh, J. A. Garrido, R. Jordan, M. Stutzmann, I. D. Sharp, **Polymer Brushes on Graphene** *J. Am. Chem. Soc.* **2011,** *133*, 10490-10498.

[5] R. Luxenhofer, A. Schulz, C. Roques, S. Li, T. K. Bronich, E. V. Batrakova, R. Jordan, A. V. Kabanov, **Doubly-Amphiphilic Poly(2-oxazoline)s as High-Capacity Delivery Systems for Hydrophobic Drugs** *Biomaterials* **2010,** *31*, 4972-4979.

[6] M. Steenackers, R. Jordan, A. Küller, M. Grunze, **Engineered Polymer Brushes by Carbon Templating** *Adv. Mater.* **2009,** *21*, 2921-2925.

[7] R. Luxenhofer, R. Jordan, **Click Chemistry with Poly(2-oxazoline)s.** *Macromolecules* **2006,** *39*, 3509-3516.

[8] U. Schmelmer, R. Jordan, W. Geyer, W. Eck, A. Gölzhäuser, M. Grunze, A. Ulman, **Surface-initiated polymerization on self-assembled monolayers: Amplification of patterns on the micrometer and nanometer scale** *Angew. Chem. Int. Ed.* **2003,** *42*, 559-563.

[9] R. Jordan, A. Ulman, J. F. Kang, M. H. Rafailovich, J. Sokolov, **Surface-Initiated Anionic Polymerization of Styrene by Means of Self-Assembled Monolayers.** *J. Am. Chem. Soc.* **1999,** *121*, 1016-1022.

[10] R. Jordan, A. Ulman, **Surface Initiated Living Cationic Polymerization of 2-Oxazolines.** *J. Am. Chem. Soc.* **1998,** *120*, 243-247.