U. Rosenthal

*The author presented on this page has recently published his **10th article** since 2000 in Angewandte Chemie:* "Ferrocenyl-Substituted Metallacycles of Titanocene–Oligocyclopentadienyl Complexes with Promising Properties": K. Kaleta, A. Hildebrandt, F. Strehler, P. Arndt, H. Jiao, A. Spannenberg, H. Lang, U. Rosenthal, *Angew. Chem.* **2011**, *123*, 11444–11448; *Angew. Chem. Int. Ed.* **2011**, *50*, 11248–11252.

The work of U. Rosenthal has been featured on the cover of Angewandte Chemie: "Tandem Si–C and C–H Activation for Decamethylhafnocene and Bis(trimethylsilyl)acetylene": T. Beweries, V. V. Burlakov, M. A. Bach, S. Peitz, P. Arndt, W. Baumann, A. Spannenberg, U. Rosenthal, B. Pathak, E. D. Jemmis, *Angew. Chem.* **2007**, *119*, 7031–7035; *Angew. Chem. Int. Ed.* **2007**, *46*, 6907–6910.

Uwe Rosenthal

Date of birth:	April 23, 1950
Position:	Professor of Inorganic Chemistry at the University of Rostock (Germany) Deputy Director of the Leibniz Institute for Catalysis e.V. at the University of Rostock
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Education:	1968–1972 Studies in chemistry at the University of Rostock 1976 PhD from the University of Rostock with Erhard Kurras 1988 Postdoc with Mark E. Vol'pin and Vladimir B. Shur at the Nesmeyanov Institute for Organoelement Compounds, Russian Academy of Sciences in Moscow (Russia) 1990–1991 Visiting Scientist with Günther Wilke and Klaus Pörschke at the Max Planck Institute for Coal Research, Mülheim an der Ruhr (Germany)
Current research interests:	Catalytic reactions based on results from stoichiometric coordination and organometallic chemistry, where metallacycles of different size (3-, 4-, 5-membered rings) can be assumed as intermediates. Research aims are understanding the reactions and coordination chemistry of metallacycles and to optimize catalytic reactions.
Hobbies:	Family, gardening, contemporary history

My motto is … "We are condemned to hope!" (Manès Sperber).

When I was eighteen I wanted to be … a chemist, mathematician, or aircraft designer.

If I could be described as an animal it would be … from my birth date a taurus (astrologically) or a tiger (chinese calendar), but in daily life probably sometimes an elephant.

The biggest challenge facing scientists is … to find an effective way of photochemical energy conversion. This would truly change industry and civilization.

The most significant historic event of the past 100 years was … for me without any doubt the peaceful reunification of East and West Germany, with all the personal benefits that it brought.

My first experiment was … a disaster. To my parents' annoyance, it ended in serious damage to the top of the fancy kitchen table.

My biggest inspiration is … riding my bike through the countryside of Rostock every morning.

I admire … my family's patience with me.

My favorite book is … "Foucault's Pendulum" by Umberto Eco because it describes a very good example for selective perception, which is fatal for science and also in everyday life.

The natural talent I would like to be gifted with … is to be a perfect dancer, which would make my wife very happy.

My 5 top papers:

1. "Synthesis of Tris(dimethylphosphonium bismethylide)chromium(III)": *Angew. Chem.* **1973**, *85*, 913–914, *Angew. Chem. Int. Ed. Engl.* **1973**, *12*, 854–855. (My very first publication, and the first from East Germany in this journal after construction of the German wall in 1961.)
2. "The Titanocene Complex of Bis(trimethylsilyl)acetylene: Synthesis, Structure, and Chemistry": U. Rosenthal, V. V. Burlakov, P. Arndt, W. Baumann, A. Spannenberg, *Organometallics* **2003**, *22*, 884–900. (The first review ever published in *Organometallics*.)
3. "Tandem Si–C and C–H Activation for Decamethylhafnocene and Bis(trimethylsilyl)acetylene": T. Beweries, V. V. Burlakov, M. A. Bach, S. Peitz, P. Arndt, W. Baumann, A. Spannenberg, U. Rosenthal, B. Pathak, E. D. Jemmis, *Angew. Chem.* **2007**, *119*, 7031–7035; *Angew. Chem. Int. Ed.* **2007**, *46*, 6907–6910. (Advances in the organometallic chemistry of hafnocenes.)
4. "An Alternative Mechanistic Concept for Homogeneous Selective Ethylene Oligomerization of Chromium-based Catalysts: Binuclear Metallacycles as a Reason for 1-Octene Selectivity?" U. Rosenthal, S. Peitz, S. Hansen, B. R. Aluri, N. Peulecke, B. H. Müller, A. Wöhl, W. Müller, M. H. Al-Hazmi, F. M. Mosa, *Chem. Eur. J.* **2010**, *16*, 7670–7676. (A combination of both classical organometallic chemistry by E. Kurras and catalysis by G. Wilke.)
5. "$[P(\mu\text{-NTer})]_2$: A Biradicaloid That is Stable at High Temperature": T. Beweries, R. Kuzora, U. Rosenthal, A. Schulz, A. Villinger, *Angew. Chem.* **2011**, *123*, 9136–9140; *Angew. Chem. Int. Ed.* **2011**, *50*, 8974–8978. (Renaissance of the work in 1894 by A. W. Michaelis from Rostock by combining main group and organometallic chemistry.)

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