

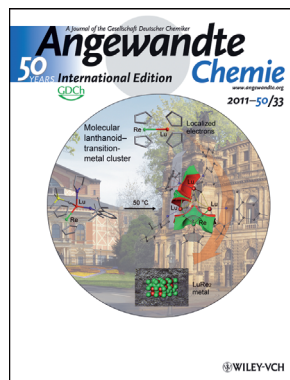


R. Kempe

The author presented on this page has recently published his **10th article** since 2000 in *Angewandte Chemie*:

“Molecular Lanthanoid–Transition-Metal Cluster Through C–H Bond Activation by Polar Metal–Metal Bonds”: M. V. Butovskii, O. L. Tok, V. Bezugly, F. R. Wagner, R. Kempe, *Angew. Chem.* **2011**, 123, 7837–7840; *Angew. Chem. Int. Ed.* **2011**, 50, 7695–7698.

With this work, R. Kempe has been featured on the inside cover of *Angewandte Chemie*.



## Rhett Kempe

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<b>Education:</b>	1984–1989 Studies of Chemistry at the University of Leipzig (Germany) 1992 PhD, University of Leipzig with Prof. Dr. J. Sieler 1992–1993 Postdoc with Prof. Dr. R. R. Schrock, MIT, Cambridge (USA) 1993–1994 Postdoc with Prof. Dr. C. Krüger, MPI für Kohlenforschung, Mülheim (Germany) 1994–1998 Habilitation with Prof. U. Rosenthal, MPG AG Komplexkatalyse, Rostock (Germany) 2000–2001 Visiting Research Scholar with Prof. R. Robson, University of Melbourne (Australia)
<b>Awards:</b>	<b>1988</b> Karl-Marx-Stipendium; <b>1993</b> DAAD-Postdoc-Stipendium; <b>1998</b> Karl-Winnacker-Stipendium; <b>1998</b> Heisenberg-Stipendium; <b>2000</b> Visiting Research Scholar Award University of Melbourne
<b>Current research interests:</b>	Our research activities focus on two topics—catalyst design and metal–metal bonding. Within the catalyst design project we are interested in homogeneous catalysis (asymmetric catalysis, controlled polymerization reactions, and transition-metal-catalyzed organic synthesis) and heterogeneous catalysts (hybrid systems of polymeric supports and metal nanoparticles—M@MOF (metal organic frameworks), M@SPB (spherical polyelectrolyte brushes) as well as M@SiCN (SiCN precursor ceramics). Within the metal–metal bonding project we are interested in polar bonds and very high bond orders.
<b>Hobbies:</b>	“Sports” (in alphabetical order): beach volleyball, biking, canoeing, football, golf, hiking, sailing, scuba diving, and skiing

**When I was eight(een) I wanted to be ...** a boat builder/yacht maker.

**My favorite drink is ...** whisky (Islay).

**The most significant historic event of the past 100 years ...** to me was the reunification of Germany.

**My first experiment was ...** (at the age of 11) the reaction of H<sub>2</sub>O<sub>2</sub> with manganese dioxide, in which the released gases powered a turbine—the environmentally friendly H<sub>2</sub>O<sub>2</sub> engine.

**I admire ...** my wife.

**The secret of being a successful scientist is ...** pressure resistance, efficiency, and creativity.

**My favorite molecule is ...** [La(ReCp<sub>2</sub>)<sub>3</sub>], also because I properly can assign its NMR signals.

**If I had one year of paid leave I would ...** sail around the world (despite it being a too short period of time).

**The principal aspect of my personality is ...** the joy of exploring.

### My 5 top papers:

1. “Metal–Metal Distances at the Limit: A Coordination Compound with an Ultrashort Chromium–Chromium Bond”: A. Noor, F. R. Wagner, R. Kempe, *Angew. Chem.* **2008**, 120, 7356–7359; *Angew. Chem. Int. Ed.* **2008**, 47, 7246–7249. (Our entrance to metal–metal quintuple bonding, highlighted by *Nature*, *Science*, *Nature Chemistry*, and others.)
2. “Stable Bimetallic Gold–Platinum Nanoparticles Immobilized on Spherical Polyelectrolyte Brushes: Synthesis, Characterization, and Application for the Oxidation of Alcohols”: M. Schrunner, S. Proch, Y. Mei, R. Kempe, N. Miyajima, M. Ballauff, *Adv. Mat.* **2008**, 20, 1928–1933. (An (early) example of synergism in heterogeneous catalysis applying well-defined nanoalloys.)
3. “Molecules containing rare-earth atoms solely bonded by transition metals”: M. V. Butovskii, C. Döring, V. Bezugly, F. R. Wagner, Y. Grin, R. Kempe, *Nature Chem.* **2010**, 2, 741–744. (My favorite molecule—a bridge between bimetallic complexes and intermetallic phases.)
4. “Catalytic Alkylation of Methyl-N-Heteroaromatics with Alcohols”: B. Blank, R. Kempe, *J. Am. Chem. Soc.* **2010**, 132, 924–925. (A novel sustainable C–C coupling reaction.)
5. “Highly Enantioselective Amido Iridium Catalysts for the Hydrogenation of Simple Ketones”: T. Irrgang, D. Friedrich, R. Kempe, *Angew. Chem.* **2011**, 123, 2231–2234; *Angew. Chem. Int. Ed.* **2011**, 50, 2183–2186. (An example that highly enantioselective catalysts can be stabilized by very simple and inexpensive ligands.)

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