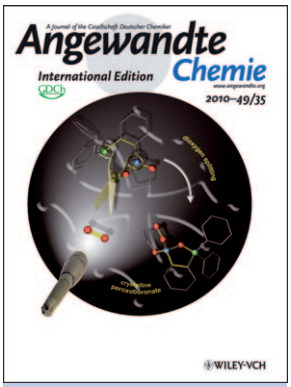
L. Maron

*The author presented on this page has recently published his **10th article** since 2000 in Angewandte Chemie:* "Reaction of Singlet Dioxygen with Phosphine–Borane Derivatives: From Transient Phosphine Peroxides to Crystalline Peroxoboronates": S. Porcel, G. Bouhadir, N. Saffon, L. Maron, D. Bourissou, *Angew. Chem.* **2010**, *122*, 6322–6325; *Angew. Chem. Int. Ed.* **2010**, *49*, 6186–6189.



L. Maron has been featured on the inside cover of Angewandte Chemie: "Reaction of Singlet Dioxygen with Phosphine–Borane Derivatives: From Transient Phosphine Peroxides to Crystalline Peroxoboronates": S. Porcel, G. Bouhadir, N. Saffon, L. Maron, D. Bourissou, *Angew. Chem.* **2010**, *122*, 6322–6325; *Angew. Chem. Int. Ed.* **2010**, *49*, 6186–6189.

Laurent Maron

Date of birth:	December 14, 1973
Position:	Professor of Physical Chemistry at the Université Paul Sabatier, Toulouse (France)
Education:	1992–1996 Studies of Chemistry, Université Paul Sabatier, Toulouse (France) 1996–1999 PhD (French and Swedish) with Professor Christian Teichteil, Université Paul Sabatier, Toulouse (France) and with Professor Ulf Wahlgren, Stockholms Universitet, Stockholm (Sweden) 2000 Postdoc with Professor Odile Eisenstein, Université Montpellier 2, Montpellier (France)
Awards:	**2006** Junior Member of the Insitut Universitaire de France
Current research interests:	My main research interest is the theoretical treatment of (catalyzed) chemical reactions that involve transition metal complexes and f electron elements, in close collaboration with experimental groups. I am also interested in elucidating reaction mechanisms and structure-reactivity-relationships to help experimentalists improve their catalysts. In addition, I am dealing with the effect of surfaces (metal complexes grafted on surfaces or metallic nanoparticles) on the performance of the catalysts in polymerization reactions. We are also active within environmental chemistry, by studying mercury as well as CO/CO_2 transformations.
Hobbies:	Rugby and tennis

When I was eighteen I wanted to be … an engineer.

When I wake up I … wake up my son and my daughter.

The most groundbreaking discoveries in science in the past 100 years have been … the theory of relativity and quantum physics.

A good work day begins with … a good espresso.

My favorite food is … duck foie gras.

My favorite author (science) is … Albert Einstein.

My favorite book is … "Candide" by Voltaire.

My top films of all time are … "Dead Poets Society", the "Lord of the Rings" trilogy, and the "Harry Potter" film series.

The biggest challenge facing chemists is … to find an effective way to transform CO_2.

The most significant advance in chemistry in the last hundred years has been … the discovery of polymerization catalysts by Ziegler and Natta.

My 5 top papers:

1. "Do f Electrons Play a Role in the Lanthanide–Ligand Bonds? A DFT Study of $Ln(NR_2)_3$; R = H, SiH_3": L. Maron, O. Eisenstein, *J. Phys. Chem A* **2000**, *104*, 7140–7143. (This paper is important because it defines a better method to compute the reactivity of lanthanide complexes.)
2. "Are the Carbon Monoxide Complexes of Cp_2M (M = Ca, Ru, or Yb) Carbon or Oxygen Bonded? An Answer from DFT Calculations": L. Maron, L. Perrin, O. Eisenstein, R. A. Andersen, *J. Am. Chem. Soc.* **2002**, *124*, 5614–5615. (This communication proposes the formation of an isocyanide complex of Yb^{II}.
3. "Hydrogen for Fluorine Exchange in C_6F_6 and C_6HF_5 by Monomeric $[1,3,4\text{-}(Me_3C)_3C_5H_2]_2CeH$: Experimental and Computational Studies": L. Maron, E. L. Werkema, L. Perrin, O. Eisenstein, R. A. Andersen, *J. Am. Chem. Soc.* **2005**, *127*, 279–292. (This paper represents a joint experimental/theoretical study on the C–F activation of fluorobenzenes by lanthanide complexes and it shows that C–F activation can proceed at the expense of C–H activation.)
4. "The Crucial Role of the f Electrons in the Bent or Linear Configuration of Uranium Cyanido Metallocenes": J. Maynadié, N. Barros, J.-C. Berthet, P. Thuéry, L. Maron, M. Ephritikhine, *Angew. Chem.* **2007**, *119*, 1056–1058; *Angew. Chem. Int. Ed.* **2007**, *46*, 2010–2012. (This communication deals with the importance of the 5f electrons in explaining the unexpected linear geometry of the uranium metallocene complexes.)
5. "Transition Metal Complexes Featuring Z-Type Ligands: Agreement or Discrepancy between geometry and d^n Configuration?": M. Sircoglou, S. Bontemps, M. Mercy, N. Saffon, M. Takahashi, G. Bouhadir, L. Maron, D. Bourissou, *Angew. Chem.* **2007**, *119*, 8737–8740; *Angew. Chem. Int. Ed.* **2007**, *46*, 8583–8586. (The paper describes a joint experimental/theoretical approach, in which we show that an Au^I complex can adopt a square-planar structure.)

DOI: 10.1002/anie.201005565