



M. Mazzanti

## Marinella Mazzanti

<b>Date of birth:</b>	October 12, 1959
<b>Position:</b>	Group Leader, École Polytechnique Fédérale de Lausanne (EPFL)
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<b>Education:</b>	1985 Laurea in Chemistry, Università degli Studi di Pisa 1985–1990 PhD with Prof. Carlo Floriani, Université de Lausanne 1991–1992 Postdoc with Prof. W. H. Armstrong, University of California, Berkeley 1992–1993 Postdoc with Prof. Alan Balch, University of California, Davis 1994–1996 Marie Curie Fellowship for a stay with Prof. J.-C. Marchon, CEA Grenoble
<b>Current research interests:</b>	Coordination and organometallic chemistry of d- and f-block elements, small-molecule activation, coordination polymers, molecular magnetism, Gd <sup>III</sup> MRI contrast agents, supramolecular chemistry
<b>Hobbies:</b>	Skiing, hiking, traveling to exotic places, contemporary art and design

The author presented on this page has recently published her **10th article** in *Angewandte Chemie* in the last 10 years:

“Self-Assembly of a 3d–5f Trinuclear Single-Molecule Magnet from a Pentavalent Uranyl Complex”: L. Chatelain, J. P. S. Walsh, J. Pécaut, F. Tuna, M. Mazzanti, *Angew. Chem. Int. Ed.* **2014**, *53*, 13434; *Angew. Chem.* **2014**, *126*, 13652.

**If I won the lottery, I would ...** open an art gallery.

**My biggest motivation is ...** to keep learning new things.

**The most exciting thing about my research is ...** the discovery of unexpected reactions and beautiful molecules.

**I lose track of time when ...** I talk to highly motivated and enthusiastic students.

**The best advice I have ever been given is ...** “Never choose the easy path”.

**I can never resist ...** a glass of champagne.

**My favorite author (fiction) is ...** Francis Scott Fitzgerald.

**The biggest problem that scientists face is ...** to use abundant compounds such as H<sub>2</sub>O, N<sub>2</sub>, or CO<sub>2</sub> in energy storage and production.

**What I look for first in a publication is ...** beautiful molecules and an exciting surprise.

**My favorite place on earth is ...** Hawaii, but with the Swiss Alps as strong competitors for first place, and always with my family.

**I chose chemistry as a career because ...** it is fun.

**My secret/not-so-secret passion is ...** crystal structures, skiing, and clothes shopping.

**If I were not a scientist, I would be ...** an architect.

### My 5 top papers:

1. “Stable Pentavalent Uranyl Species and Selective Assembly of a Polymetallic Mixed-Valent Uranyl Complex by Cation–Cation Interactions”: V. Mougél, P. Horeglad, G. Nocton, J. Pécaut, M. Mazzanti, *Angew. Chem. Int. Ed.* **2009**, *48*, 8477; *Angew. Chem.* **2009**, *121*, 8629. (These species were previously considered too unstable to isolate.)
2. “Siloxide as Supporting Ligands in Uranium(III)-Mediated Small-Molecule Activation”: V. Mougél, C. Camp, J. Pécaut, C. Copéret, L. Maron, C. E. Kefalidis, M. Mazzanti, *Angew. Chem. Int. Ed.* **2012**, *51*, 12280; *Angew. Chem.* **2012**, *124*, 12446. (Very simple systems are able to promote the controlled reduction of CO<sub>2</sub>.)
3. “Assembling uranium and manganese in a wheel-shaped nanosized single-molecule magnet with high

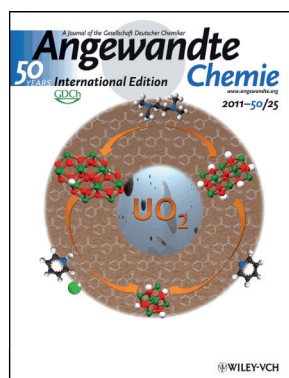
spin-reversal barrier”: V. Mougél, L. Chatelain, J. Pécaut, R. Caciuffo, E. Colineau, J. C. Griveau, M. Mazzanti, *Nature Chem.* **2012**, *4*, 1011. (A beautiful molecule with great magnetic properties.)

4. “Multielectron redox chemistry of lanthanide Schiff-base complexes”: C. Camp, V. Guidal, B. Biswas, J. Pécaut, L. Dubois, M. Mazzanti, *Chem. Sci.* **2012**, *3*, 2433. (A ligand-based strategy to introduce multi-electron redox events at lanthanide centers.)

5. “Multimetallic Cooperativity in Uranium-Mediated CO<sub>2</sub> Activation”: O. Cooper, C. Camp, J. Pécaut, C. E. Kefalidis, L. Maron, M. Mazzanti, *J. Am. Chem. Soc.* **2014**, *136*, 6716. (The impact of heterometallic cooperativity in CO<sub>2</sub> activation is demonstrated when combining an f element with an alkali-metal ion.)

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The work of M. Mazzanti has been featured on the back cover of *Angewandte Chemie*:

“Base-Driven Assembly of Large Uranium Oxo/Hydroxo Clusters”: B. Biswas, V. Mougél, J. Pécaut, M. Mazzanti, *Angew. Chem. Int. Ed.* **2011**, *50*, 5745; *Angew. Chem.* **2011**, *123*, 5863.