



J. Poblet

The author presented on this page has published more than **10 articles** in *Angewandte Chemie* in the last 10 years, most recently: "Alkaline Earth Guests in Polyoxopalladate Chemistry: From Nanocube to Nanostar via an Open-Shell Structure": P. Yang, Y. Xiang, Z. Lin, B. S. Bassil, J. Cao, L. Fan, Y. Fan, M.-X. Li, P. Jiménez-Lozano, J. J. Carbó, J. M. Poblet, U. Kortz, *Angew. Chem. Int. Ed.* **2014**, 53, 11974–11978; *Angew. Chem.* **2014**, 126, 12168–12172.

Josep M. Poblet

Date of birth:	April 21, 1956
Position:	Professor of Physical Chemistry and Head of the Physical and Inorganic Chemistry Department, Universitat Rovira i Virgili, Tarragona
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Education:	1979 BSc, Universitat de Barcelona 1983 PhD supervised by Enric Canadell, Universitat de Barcelona 1983–1984 Postdoctoral work supervised by Marc Bénard, Université Louis Pasteur, Strasbourg
Awards:	2012 Physical Chemistry Award of the Real Sociedad Española de Química (Spanish Royal Society of Chemistry)
Current research interests:	Chemical and physical properties of carbon nanoforms; electronic structure and reactivity of polyoxometalate anions with special emphasis on functional structures for clean energy, catalysis, and devices; assembly of small molecular metal oxides in solution
Hobbies:	Cooking, chemistry, wine and "tapas", cinema

My biggest inspiration is ... my research group and my colleagues.

My favorite principle is ... the Pauli exclusion principle.

My favorite time of day is ... the morning, when I have my first coffee of the day.

My favorite way to spend a holiday is ... travelling with my wife and our friends.

The principal aspects of my personality are ... intuition and perseverance.

My favorite author (science) is ... Roald Hoffmann, who uses theoretical chemistry to develop new and simple concepts that describe complex phenomena.

My favorite painter is ... Pablo Picasso.

My favorite songwriters are ... Leonard Cohen and Lluís Llach.

The greatest scientific advance of the last decade was ... the progress made with antiretroviral therapy for AIDS.

The biggest challenge facing scientists is ... to replace the oil-based economy to one based on clean energy for a world population of more than seven billion.

Chemistry is fun because ... it enables you to develop your creativity. Chemists can be considered as architects at the molecular level.

My favorite drink is ... red wine.

My 5 top papers:

1. "Electronic Properties of Polyoxometalates: Electron and Proton Affinity of Mixed-Addenda Keggin and Wells–Dawson Anions": X. López, C. Bo, J. M. Poblet, *J. Am. Chem. Soc.* **2002**, 124, 12574–12582. (Redox properties and basicity of the external oxygen sites in polyoxometalates with nonequivalent addenda metals.)
2. "General Rule for the Stabilization of the Fullerene Cages Encapsulating Trimetallic Nitride Templates": J. M. Campanera, C. Bo, J. M. Poblet, *Angew. Chem. Int. Ed.* **2005**, 44, 7230–7233; *Angew. Chem.* **2005**, 117, 7396–7399. (A simple molecular orbital rule explains the most favorable carbon cage for endohedral metallofullerenes.)
3. "On the Origin of Alternating Bond Distortions and the Emergence of Chirality in Polyoxometalate Anions": L. Yan, X. López, J. J. Carbó, R. T. Sniatynsky, D. C. Duncan, J. M. Poblet, *J. Am. Chem. Soc.* **2008**, 130, 8223–8233. (Bond-length distortions and the chirality observed within polyoxometalate ring structures originate from vibronic instability.)
4. "The maximum pentagon separation rule provides a guideline for the structures of endohedral metallofullerenes": A. Rodríguez-Fortea, N. Alegret, A. Balch, J. M. Poblet, *Nat. Chem.* **2010**, 2, 955–961. (Physical evidence for the molecular orbital rule in reference [2].)
5. "Design and fabrication of memory devices based upon nanoscale polyoxometalate clusters": C. Busche, L. Vilà-Nadal, J. Yan, H. N. Miras, D.-L. Long, V. P. Georgiev, A. Asenov, R. H. Pedersen, N. Gadegaard, M. M. Mirza, D. J. Paul, J. M. Poblet, L. Cronin, *Nature* **2014**, 515, 545–549. (Polyoxometalates are suitable as storage nodes for flash memory.)

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