



S. Troyanov

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

"Chlorination of IPR C_{100} Fullerene Affords Unconventional $C_{96}Cl_{20}$ with a Nonclassical Cage Containing Three Heptagons": S. Yang, S. Wang, E. Kemnitz, S. I. Troyanov, *Angew. Chem.* **2014**, 126, 2492–2495; *Angew. Chem. Int. Ed.* **2014**, 53, 2460–2463.

Sergey Troyanov

Date of birth:	February 12, 1938
Position:	Professor, Chemistry Department, Moscow State University
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Education:	1961 Undergraduate degree, Moscow Institute of Chemical Technology 1972 PhD supervised by V. I. Tsirel'nikov, Moscow State University 1990 Habilitation, Chemistry Department, Moscow State University
Current research interests:	Fullerene chemistry, X-ray and neutron crystallography, hydrogen bonding, crystal chemistry of metal halides and metal nitrates
Hobbies:	Gardening, classical music, mineralogy (strongly reduced in the last few years)

My worst nightmare is ... to have to stop promising scientific work.

The most exciting thing about my research is ... a lot of wonderful (chemical) surprises.

I lose track of time when ... I am thinking about the infinity of time for both the past and the future.

My favorite author is ... Aleksandr Solzhenitsyn.

In retrospect I would never again ... watch bad films or sport on TV (but I still do this sometimes).

My favorite pieces of music are ... some sonatas by Skryabin (a Russian composer).

My favorite saying is ... (after Kuz'ma Prutkov (pseudonym)) "It is impossible to grasp the ungraspable".

The most significant scientific advance of the last 100 years has been ... the discovery of the DNA double helix as an explanation of heredity.

I chose chemistry as a career because ... I was very curious about molecules that exist but can't be seen.

My not-so-secret passion is ... to perform the most difficult (and sometimes dangerous) experiments by myself.

If I were not a scientist, I would be ... a gardener, or rather a surgeon.

My most exciting discovery to date has been ... skeletal transformations in fullerenes, which will become better understood in the future.

My 5 top papers:

1. "Direct proof of the molecular structure of dimeric titanocene; The X-ray structure of $\mu(\eta^5\text{-fulvalene})\text{-di}(\mu\text{-hydrido})\text{-bis}(\eta^5\text{-cyclopentadienyltitanium})\text{-1.5 benzene}$ ": S. I. Troyanov, H. Antropiusová, K. Mach, *J. Organomet. Chem.* **1992**, 427, 49–55. (A long-sought explanation for the specific properties of titanocene.)
2. "Novel, Highly Symmetrical Halogen-Centered Polynuclear Lanthanide Complexes: $[\text{Cp}_6\text{Yb}_6\text{Cl}_{13}]$ and $[\text{Cp}_{12}\text{Sm}_{12}\text{Cl}_{24}]$ ": W. P. Kretschmer, J. H. Teuben, S. I. Troyanov, *Angew. Chem.* **1998**, 110, 92–94; *Angew. Chem. Int. Ed.* **1998**, 37, 88–90. (Remarkable clustering phenomena arising from ligand deficiency.)
3. "A [70]Fullerene Chloride, $C_{70}Cl_{16}$, Obtained by the Attempted Bromination of C_{70} in TiCl_4 ": S. I. Troyanov, A. A. Popov, *Angew. Chem.* **2005**, 117, 4287–4290; *Angew. Chem. Int. Ed.* **2005**, 44, 4215–4218. (A new method of fullerene chlorination.)
4. "Fusing Pentagons in a Fullerene Cage by Chlorination: IPR $D_{2h}\text{-}C_{76}$ rearranges into non-IPR $C_{76}Cl_{24}$ ": I. N. Ioffe, A. A. Goryunkov, N. B. Tamm, L. N. Sidorov, E. Kemnitz, S. I. Troyanov, *Angew. Chem.* **2009**, 121, 6018–6021; *Angew. Chem. Int. Ed.* **2009**, 48, 5904–5907. (A new phenomenon of chlorination-promoted skeletal transformations in fullerenes.)
5. "Chlorination of C_{86} to $C_{84}Cl_{32}$ with Nonclassical Heptagon-Containing Fullerene Cage Formed by Cage Shrinkage": I. N. Ioffe, C. Chen, S. Yang, L. N. Sidorov, E. Kemnitz, S. I. Troyanov, *Angew. Chem.* **2010**, 122, 4894–4897; *Angew. Chem. Int. Ed.* **2010**, 49, 4784–4787. (A chlorination-promoted C_2 loss results in the formation of a heptagon-containing cage.)

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