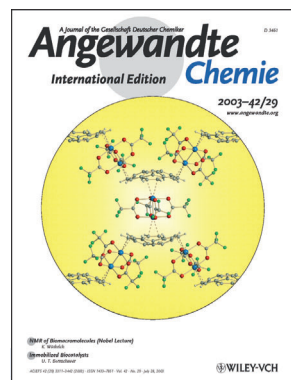




M. A. Petrukhina

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

"Tightening of the Nanobelt upon Multielectron Reduction": A. V. Zabula, A. S. Filatov, J. Xia, R. Jasti, M. A. Petrukhina, *Angew. Chem.* **2013**, 125, 5137–5140; *Angew. Chem. Int. Ed.* **2013**, 52, 5033–5036.



The work of M. A. Petrukhina has been featured on the cover of *Angewandte Chemie*:

"Transition-Metal Complexes of an Open Geodesic Polyarene": M. A. Petrukhina, K. W. Andreini, J. Mack, L. T. Scott, *Angew. Chem.* **2003**, 115, 3497–3501; *Angew. Chem. Int. Ed.* **2003**, 42, 3375–3379.

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Position:	Professor, Department of Chemistry, University at Albany, State University of New York
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Education:	1980–1985 BS/MS in Chemistry/Radiochemistry (magna cum laude), Moscow State University 1985–1988 PhD in Inorganic Chemistry with Acad. V. I. Spitsyn and Prof. E. A. Torchenkova, Moscow State University 1996–2000 Postdoctoral associate with Prof. F. A. Cotton, Texas A&M University
Awards:	2005 Dr. Nuala McGann Drescher Award, State of New York/United University Professions; 2006 National Science Foundation CAREER Award; 2013 President's Award for Excellence in Research, University at Albany
Current research interests:	Synthetic and structural inorganic/organometallic chemistry; supramolecular chemistry; structures, properties, and reactivity of curved carbon-rich polyaromatic hydrocarbons and metal clusters
Hobbies:	Traveling and sampling local food

My favorite saying is ... "yes, we can!"

I can never resist ... travelling to new places.

My biggest motivation is ... the progress and success of my students.

The best advice I have ever been given is ... "you are only as good as your most recent work".

I would have liked to have discovered ... yet another allotrope of carbon.

The downside of my job is ... that there is almost no time for hobbies.

When I'm frustrated, I ... go for a swim and plan my next trip.

My top three films of all time are ... constantly changing.

My favorite food is ... all sorts of cheese.

My favorite place on earth is ... the Haleakala Volcano summit on Maui with views of the sunset and no sound from the surroundings.

I chose chemistry as a career because ... I never considered any other options.

My secret/not-so-secret passion is ... organizing everyone and everything.

If I were not a scientist, I would be ... a food critic.

My 5 top papers:

1. "Using Structures Formed by Dirhodium Tetra(trifluoroacetate) with Polycyclic Aromatic Hydrocarbons to Prospect for Maximum π -Electron Density: Hückel Calculations Get it Right": F. A. Cotton, E. V. Dikarev, M. A. Petrukhina, *J. Am. Chem. Soc.* **2001**, 123, 11655–11663. (Revealing a very sensitive electrophilic probe for testing binding sites of polyarenes.)
2. "Foregoing Rigidity to Achieve Greater Intimacy": A. S. Filatov, E. A. Jackson, L. T. Scott, M. A. Petrukhina, *Angew. Chem.* **2009**, 121, 8625–8628; *Angew. Chem. Int. Ed.* **2009**, 48, 8473–8476. (Unusual curvature tradeoffs of interacting partners upon complexation.)
3. "Probing the binding sites and coordination limits of buckybowl in a solvent-free environment: Experimental and theoretical assessment": A. S. Filatov, M. A. Petrukhina, *Coord. Chem. Rev.* **2010**, 254, 2234–2246. (An overview of the coordination properties of a unique class of polyarenes.)
4. " π – π Interactions and Solid State Packing Trends of Polycyclic Aromatic Bowls in the Indenocorannulene Family: Predicting Potentially Useful Bulk Properties": A. S. Filatov, L. T. Scott, M. A. Petrukhina, *Crystal Growth & Design* **2010**, 10, 4607–4621. (An in-depth evaluation of solid-state structures of π bowls.)
5. "A Main Group Metal Sandwich: Five Lithium Cations Jammed Between Two Corannulene Tetraanion Decks": A. V. Zabula, A. S. Filatov, S. N. Spisak, A. Yu. Rogachev, M. A. Petrukhina, *Science* **2011**, 333, 1008–1011. (Resolution of the long-standing mystery behind the supramolecular structure formed by a highly charged bowl-shaped polyarene.)

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