



J. M. Shreeve

## Jean'ne M. Shreeve

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<b>Education:</b>	1953 BA, University of Montana 1961 PhD with Professor George H. Cady, University of Washington, Seattle 1967 Postdoctoral research with Professor Harry J. Emeléus, Cambridge University, UK
<b>Awards:</b>	<b>2011</b> Fellow of the American Chemical Society; University Distinguished Professor; Jean'ne M. Shreeve NSF EPSCoR Research Excellence Award
<b>Current research interests:</b>	Syntheses and characterization of energetic materials guided by theoretical calculations; hypergolic ionic liquids; destruction of bioagents; fluorine-containing species with energetic applications
<b>Hobbies:</b>	Fishing, gardening, driving

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

"Tris(triazolo)benzene and Its Derivatives: High-Density Energetic Materials": V. Thottempudi, F. Forohor, D. A. Parrish, J. M. Shreeve, *Angew. Chem.* **2012**, 124, 10019–10023; *Angew. Chem. Int. Ed.* **2012**, 51, 9881–9885.

### My motto is ... "full speed ahead."

**My favorite molecule is ...** fluorine.

**The secret of being a successful scientist is ...** to have excellent dedicated students who love what they do, and do it very well.

**The most important thing I learned from my students is ...** that chemistry is frustrating but fun.

**What I appreciate most about my friends is ...** their honesty, imagination, and thought processes.

**My favorite time of day is ...** after supper in the lab when the phone calls and the e-mails stop and students are full speed ahead.

**My favorite musician is ...** Glenn Miller.

**The natural talent I would like to have had is ...** the ability to be a competent musician.

**When I was eighteen I wanted to be ...** a chemistry professor.

**I am waiting for the day when someone will discover ...** how to put more hours in the day.

**The biggest challenge facing scientists is ...** how to encourage really bright young people to enter the field of chemistry with the likelihood of good jobs when they finish.

**Chemistry is fun because ...** it is always full of surprises but with dedication, imagination, and hard work it pays off.

**If I were a car I would be ...** safe, efficient, and enthusiastically speedy.

### My 5 top papers:

1. "Perfluorourea,  $(\text{NF}_2)_2\text{CO}$ ": G. W. Fraser, J. M. Shreeve, *Chem. Commun.* **1966**, 532. (The synthesis and characterization of a long-sought compound that was thought to be the utopian rocket-fuel oxidizer of the time.)
2. "Rapid and Accurate Estimation of Densities of Room-Temperature Ionic Liquids and Salts": C. Ye, J. M. Shreeve, *J. Phys. Chem. A* **2007**, 111, 1456–1461. (This methodology provides one of the most straightforward and accurate routes available to calculate densities for molecular compounds and salts, whether solid or liquid.)
3. "Ionic Liquids as Hypergolic Fuels": Y. Zhang, H. Gao, Y.-H. Joo, J. M. Shreeve, *Angew. Chem.* **2011**, 123, 9726–9734; *Angew. Chem. Int. Ed.* **2011**, 50, 9554–9562. (This article summarizes the synthetic results obtained and characteristics of the most promising hypergolic fuels with the shortest ignition delay times.)
4. "Azole-based Energetic Salts": H. Gao, J. M. Shreeve, *Chem. Rev.* **2011**, 111, 7377–7436. (This work summarizes research results in the field of azole-containing energetic materials.)
5. "Nitroimino-tetrazolates and Oxy-nitroimino-tetrazolates": Y.-H. Joo, J. M. Shreeve, *J. Am. Chem. Soc.* **2010**, 132, 15081–15090. (The culmination of a series of works by us that describe the powerful route to 5-substituted energetic tetrazoles through the use of cyanogen azide.)

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