



#### Research Interests:

- Chemistry & Biology of Natural Products
- Development of Synthetic Methodology
- Rational Drug Design
- Renewable Energy

# Artem Kireev, Ph.D.

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## Visiting Assistant Professor; September 2010-Present Texas A&M University-Texarkana

### Recently Taught Courses (Past 2 Years)

- CHEM 1111: General Chemistry I (Lab)
- CHEM 1112: General Chemistry II (Lab)
- CHEM 1311: General Chemistry I
- CHEM 1312: General Chemistry II
- CHEM 2423: Organic Chemistry I
- CHEM 2425: Organic Chemistry II
- CHEM 405: Environmental Chemistry
- BIOL/CHEM/CJ 472: Introduction to Forensic Science
- BIOL/CHEM 410: Biochemistry I
- BIOL/CHEM 411: Biochemistry II
- CHED 511: Teaching Contextual Chemistry

### Education

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY; Socorro, NM  
Ph.D. in Chemistry, 2008  
M.S. in Biology, 2006

LOMONOSOV STATE ACADEMY OF FINE CHEMICAL TECHNOLOGY; Moscow, Russia  
M.S. in Molecular & Cell Biotechnology, 2002  
B.S. in Chemical Technology & Biotechnology, 2000

### Experience

TEXAS A&M UNIVERSITY — TEXARKANA; Texarkana, TX  
**Visiting Assistant Professor**, 9/10 to Present

RED RIVER BIODIESEL, LTD.; New Boston, TX  
**Laboratory Director**, 10/09 to 2/10

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY; Socorro, NM  
**Graduate Research Assistant in Chemistry**, 1/03 to 12/08

### Significant Professional Publications (Past 5 Years)

Manpadi, M.; Kireev, A. S.; et al. (2009). *Synthesis of structurally simplified analogues of pancratistatin: Truncation of the cyclitol ring.* J. Org. Chem., 74, 7122

Evidente, A.; Kireev, A. S.; et al. (2009). *Novel biological evaluation of structurally diverse Amaryllidaceae alkaloids and their synthetic derivatives: Discovery of novel leads for anticancer drug design.* Planta Med., 75, 501

Evdokimov, N. M.; Kireev, A. S.; et al. (2006). *One step three-component synthesis of pyridines and 1,4-dihydropyridines with manifold medicinal utility.* Org. Lett., 8, 899

Kireev, A. S.; et al. (2006). *Selectivity guidelines and a reductive elimination-based model for predicting the stereochemical course of conjugate addition reactions of organocuprates to  $\gamma$ -alkoxy- $\alpha,\beta$ -enoates.* J. Org. Chem., 71, 2630

Kireev, A. S.; et al. (2005). *Enantiodivergent formal synthesis of (+)- and (-)-cyclophellitol from D-xylose based on the latent symmetry concept.* J. Org. Chem., 70, 742