

# ***JOURNAL OF CHEMICAL EDUCATION***

## CONTENIDO

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### COVER

Teaching Nanochemistry. In the article by Baker and Baker (DOI 10.1021/ed800080k), the Madelung constants for binary ionic nanoparticles are determined. The computational method discussed sums the Coulombic interactions show size-dependent lattice energies. This is a useful concept in teaching how properties such as melting point are critically dependent on the size of the nanostructure. To use this method for determining the bulk Madelung constant, the summation must have a carefully constructed building unit. These are developed for NaCl, CsCl, and ZnS (zinc blende) structure types. The cover shows an electrically neutral nanocluster having the zinc blende symmetry and contains 1472 ions.

### CHEMICAL EDUCATION TODAY

#### Editorial

- ▲231 The Case for Reform of the Undergraduate General Chemistry Curriculum.  
*Malanie Cooper.*

#### Especially for high School Teachers.

- ▲233 Putting Frindle to Paper.  
*Erica K. Jacobson and Laura E. Slocum.*
- ▲235 ACS Community Activities Contest: National Chemistry Week 2009 Poster Contest Winners.  
*Clinton Harris.*
- ▲237 Support Your Favorite Element on Facebook: A Post-National Chemistry Week Update.  
*Erica K. Jacobsen\* and Rachel K. Groat.*

#### Reports from Other Journals.

- ▲239 The Science Teacher: March 2009 through November 2009.  
*Steve Long.*

#### Reports from Other Journals.

- ▲243 Research Advances: Fill 'Er Up on Chicken, Shrimp, and Coffee?  
*Angela King.*

### **Association Reports.**

- 245 Expanding Opportunities for Undergraduate research through Recent NSF Awards to CUR.  
*Kerry K. Karukstis.*

### **Instrumentation Topics for the Teaching Laboratory.**

- 247 Recent Trends in Instrumentation Requests to NSF's CCLI Chemistry Program.  
*Susan Hixson, Eun-Woo Chang, and Bert E. Holmes.*

### **Chemical Education across Cultural and National Borders.**

- ▲250 A Postcard from Croatia: where Would We Like To Proceed in Chemical Education?  
*Nenad Judaš.*

### **Commentary.**

- ▲252 Visible Teaching: Moving from a Solitary Practice to a Community Endeavor.  
*Barbara A. Reiner\* and B. Scott Williams.*

### **Commentary.**

- ▲254 Using a Google Jockey To Enhance Classroom Discussion.  
*Laura E. Pence, \* Emily Greene, and Harry E. Pence.*
- ▲256 Program for the Division of Chemical Education at the Spring 2010 ACS National Meeting in San Francisco.  
*Eric J. Kantorowski, \* Cinzia M. Mussi, and Julianne M. Smist.*
- ▲262 High School Program for the Spring 2010 ACS National Meeting in San Francisco.  
*Irvin J. Levy\* and Jennifer King.*
- 265 Undergraduate Program for the Spring 2010 ACS National Meeting I San Francisco.  
*Lori Betsock.*
- ▲267 March 2010 News & Announcements.

### **Letters**

- ▲270 Plotting the Discovery of the Elements.  
*Kathleen Thompson.*

### **Letters**

- ▲271 Yield of ATP Molecules per Glucose Molecule.  
*William H. Flurkey.*

#### **Book & Media Reviews**

- 272 Book Review of Surface Science: Foundations of Catalysis and Nanoscience, Second Edition.  
*Kurt W. Kolasinski.* Reviewed by *C.M. Woodbridge.*

#### **Book & Media Reviews**

- 272 Book Review of Introduction to Materials Chemistry.  
*Harry R. Allcock* Reviewed by *M. C. Woodbridge.*

#### **Book & Media Reviews**

- 273 Book Review of Inorganic Materials Synthesis and Fabrication.  
*John N. Lalena, David A. Cleary, Everett E. Carpenter, and Nancy F. Dean*  
Reviewed by *Les Pesterfiled.*

#### **Book & Media Reviews**

- 274 Book Review of Inorganic Reactions in Water.  
*Ronald L. Rich.* Reviewed by *Peter M. Smith.*

### **CHEMICAL FOR EVERYONE**

- ▲275 **Tested Demonstrations.**  
The pixel Paradox and Transition- Metal Spectroscopy: One of Many Uses of the Handheld Digital Microscope in Chemical Demonstrations.  
*Ed Vitz.*

### **IN THE CLASSROOM**

- 280 Teaching Nanochemistry: Madelung Constants of Nanocrystals.  
*Mark D. Baker\* and A. David Baker.*

#### **Concept Maps.**

- ▲285 Using Concept Maps To teach a Nanotechnology Survey Short Course.  
*David D. Moyses, Jennifer L. Rivet, and Bradley D. Fahlman\*.*
- ▲291 Use of Molecular Models for Active Learning in Biochemistry Kecture Courses.  
*James H. Hageman.*

#### **Applications and Analogies.**

- ▲294 A Hands-On Classroom Simulation To Demonstrate Concepts in Enzyme Kinetics.

*Matthew Junker.*

- 296 The Effect of Temperature on the Enzyme-Catalyzed Reaction: Insights from Thermodynamics.  
*Juan Carlos Aledo,\* Susana Jiménez-Riveres, and Manuel Tena.*

## **IN THE LABORATORY**

- 299 Thermodynamic Exploration of Eosin — Lysozyme Binding.  
*Andrew J. Huisman, Lydia R. Hartsell, Brent P. Krueger,\* and Michael J. Pikaart.*
- 303 Expression and Purification of Sperm Whale Myoglobin.  
*Stephen Miller,\* Virginia Indivero, and Caroline Burkhard.*
- ▲306 Coffee Cup Atomic Force Microscopy.  
*David E. Ashkenaz, W. Paige Hall, Christy L. Haynes, Erin M. Hicks, Adam D. McFarland, Leif J. Sherry, Douglas A. Stuart, Korin E. Wheeler, Chanda R. Yonzon, Jing Zhao, Hilary A. Godwin, and Richard P. Van Duyne\*.*
- 308 Preparation of Chemically Etched Tips for Ambient Instructional Scanning Tunneling Microscopy.  
*Margot J. Zaccardi, Kurt Winkelmann, and Joel A. Olson\*.*
- ▲311 Inquiry-Based Arson Investigation for General Chemistry Using GC-MS.  
*Marta K. Maurer,\*Michael R. Bukowski, Mary D. Menachery, and Adam R. Zatorsky.*
- 314 An Economical Method for Static Headspace Enrichment for Arson Analysis.  
*Bjorn Olesen.*
- ▲316 A Laboratory Exercise To Demonstrate the Theory and Practice of Analytical Sampling.  
*Brian A. Logue\* and Stephanie L. Youso.*
- 320 Diamagnetic Anisotropy: Two Iron Complexes as Laboratory Examples.  
*Ignacio Fernández\* nad Jorge Fernando Fernández Sánchez.*
- 323 Use of Kinematic Viscosity Data for the Evaluation of the Molecular Weight of Petroleum Oils.  
*J. A. Maroto,\* M. Quesada-Pérez, and A.J. Ortiz-Hernández.*

## **Cost-Effective Teacher.**

- 326 Inexpensive Raman Spectrometer for Undergraduate and Graduate Experiments and Research.  
*Christian Mohr, Claire L. Spencer, and Michael Hippler\*.*

## **RESEARCH: SCIENCE AND EDUCATION**

- 331 Transformations between Extensive and Intensive Versions of Thermodynamic Relationships.  
*James G. Eberhart.*
- ▲335 First-Year Science Education Student Teachers' Beliefs about Student – and Teacher-Centeredness: Parallels and Differences between Chemistry and Other Science Teaching Domains.  
*Silvija Markic and Ingo Eiks\*.*
- ▲340 **Chemical Information Instructor.**  
Chemical Information Instruction in Academe: Who Is Leading the Change?  
*Jeremy R. Garritano\* and F. Bartow Culp.*

### ON THE WEB

- 345 **JCE Webware**  
A New Java-Program for Graphical Illustration of the Franck – Condon Principle: Application to the I<sub>2</sub> Spectroscopy Experiment in the Undergraduate Physical Chemistry Laboratory.  
*George Lucchese, Robert R. Lucchese, and Simon W. North\*.*
- 346 **JCE Featured Molecules**  
Molecular Models of Phthalocyanine and Porphyrin Complexes.  
*William F. Coleman\*.*

■ Supporting Information is available via the Internet at <http://pubs.acs.org>

▲ Articles of special interest to high school teachers.

\*In papers with more than one author, the asterisk indicates the name of the author to whom inquiries about the paper be addressed.