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Journals of Interest - Mathematics and Science Education

November 2017

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# Journal of Research in Science Teaching

[Volume 54, Issue 10](#)

## Issue Information

### **Student development of model-based reasoning about carbon cycling and climate change in a socio-scientific issues unit**

Laura Zangori, Amanda Peel, Andrew Kinslow, Patricia Friedrichsen, Troy D. Sadler.

### **The effects of visualizations on linguistically diverse students' understanding of energy and matter in life science**

Kihyun Ryoo, Kristin Bedell.

### **Comparing the preparedness, content knowledge, and instructional quality of elementary science specialists and self-contained teachers**

Joseph Brobst, Kimberly Markworth, Tammy Tasker, Chris Ohana.

### **Analysis of inquiry materials to explain complexity of chemical reasoning in physical chemistry students' argumentation**

Alena Moon, Courtney Stanford, Renee Cole, Marcy Towns.

### **Examining the reasoning of conflicting science information from the information processing perspective—an eye movement analysis**

Fang-Ying Yang.

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## **Journal of College Science Teaching**

[Volume 47, No. 2](#)

### **Preparing Preservice K-8 Teachers for the Public School: Improving Evolution Attitudes, Misconceptions, and Legal Confusion**

Ashley R. Vaughn, Jennifer R. Robbins.

### **Impact of a Robert Noyce Scholarship on STEM Teacher Recruitment**

Patricia D. Morrell, Stephanie Salomone.

### **Using Clickers for Deliberate Practice in Five Large Science Courses**

Linda C. Hodges, Eric C. Anderson, Tara S. Carpenter, Elizabeth A. Feeser, Tiffany Malinky Gierasch.

### **Case Study: Assembling a Case Study Tool Kit: 10 Tools for Teaching With Cases**

Annie Prud'homme- Génèreux.

### **Research and Teaching: What Determines Student Acceptance of Politically Controversial Scientific Conclusions?**

J.D. Walker, Sehoya Cotner, Deena Wassenberg, Gabriel Franta.

### **Research and Teaching: Show Me the Way: Future Faculty Prefer Directive Feedback When Trying Active Learning Approaches**

Jessica D. Stephens, David C. Battle, Cara L. Gormally, Peggy Brickman.

### **Research and Teaching: Introducing Engineering Design to a Science Teaching Methods Course Through Educational Robotics and Exploring Changes in Views of Preservice Elementary Teachers**

Erdogan Kaya, Ezgi Yesilyurt, Hasan Deniz, Anna Newley, Patrick Newley.

### **Research and Teaching: Comparing Student Learning in the Team-Based Learning Classroom with Different Team Reporting Methods**

Staci Neas Johnson.

### **Research and Teaching: Improving the Science Teaching Self-Efficacy of Preservice Elementary Teachers: A Multiyear Study of a Hybrid Geoscience Course**

Cinzia Cervato, Charles Kerton.

## **Research in Mathematics Education**

[Volume 19, Issue 3](#)

**Preservice teachers' video simulations and subsequent noticing: a practice based method to prepare mathematics teachers**

Julie M. Amador.

**Statistics as unbiased estimators: exploring the teaching of standard deviation**

Nicholas H. Wasserman, Stephanie Casey, Joe Champion, and Maryann Huey.

**The roles of formalization artefacts in student's formalization processes**

Dov Zazkis, Melissa Mills.

**The poetics of argumentation: the relevance of conversational repetition for two theories of emergent mathematical reasoning**

Susan Staats.

**Understanding mathematical development through Vygotsky**

Margaret Walshaw.

**Proceedings of the Day Conference of the British Society for Research into Learning Mathematics (BSRLM) held at the University of Brighton, Brighton Saturday 12<sup>th</sup> November 2016.**

Multiple authors.

**Proceedings of the Day Conferences March 2017**

Multiple authors.

**Proceedings of the Day Conferences June 2017**

Multiple authors.

**Youngsters solving mathematical problems with technology: the results and implications of the Problem@Web project**

Irene Biza.

## **Journal for Research in Mathematics Education**

[Volume 48, No. 5](#)

### **A Future Vision of Mathematics Education Research: Blurring the Boundaries of Research and Practice to Address Teachers' Problems**

Jinfa Cai, Anne Morris, Charles Hohensee, Stephen Hwang, Victoria Robison, James Hiebert.

### **Valid Issues but Limited Scope: A Response to Kitchen and Berk's Research Commentary on Educational Technology**

Douglas H. Clements, Julie Sarama.

### **Keeping the Focus on Underserved Students, Privilege, and Power: A Reaction to Clements and Sarama**

Richard Kitchen, Sarabeth Berk.

### **The Culture of Exclusion in Mathematics Education and Its Persistence in Equity-Oriented Teaching**

Nicole L. Louie.

### **Predicting Student Achievement Using Measures of Teachers' Knowledge for Teaching Geometry**

Margaret Mohr-Schroeder, Robert N. Ronau, Susan Peters, Carl W. Lee, William S. Bush.

### **Informal Content and Student Note-Taking in Advanced Mathematics Classes**

Timothy Fukawa-Connelly, Keith Weber, Juan Pablo Mejía-Ramos.

### **A Review of Tools and Mathematics: Instruments for Learning**

Karen F. Hollebrands, Samet Okumus.

## **Journal of Mathematics Teacher Education**

[Volume 20, Issue 6](#)

**The quality of mathematics teaching: a central goal in mathematics teacher education**

Despina Potari.

**Prospective elementary teachers' responses to unanticipated incorrect solutions to problem-solving tasks**

Allyson Hallman-Thrasher.

**Teachers' construction of meanings of signed quantities and integer operation**

Ruchi S. Kumar, K. Subramaniam, Shweta Shripad Naik.

**Leader noticing of facilitation in videocases of mathematics professional development**

Kristin Lesseig, Rebekah Elliott, Elham Kazemi, Megan Kelley-Petersen, Matthew Campbell, Judith Mumme, Cathy Carroll.

## **Educational Psychology Review**

[Volume 29, Issue 4](#)

### **Achieving Optimal Best: Instructional Efficiency and the Use of Cognitive Load Theory in Mathematical Problem Solving**

Huy P. Phan, Bing H. Ngu, Alexander S. Yeung.

### **Towards a Theory of When and How Problem Solving Followed by Instruction Supports Learning**

Katharina Loibl, Ido Roll, Nikol Rummel.

### **Conditions for the Effectiveness of Multiple Visual Representations in Enhancing STEM Learning**

Martina A. Rau.

### **Reading Instruction for English Learners in the Middle Grades: a Meta-Analysis**

Colby Hall, Garrett J. Roberts, Eunsoo Cho, Lisa V. McCulley, Megan Carroll, Sharon Vaughn.

### **Reconceptualizing the Sources of Teaching Self-Efficacy: a Critical Review of Emerging Literature**

David B. Morris, Ellen L. Usher, Jason A. Chen.

### **How Can Brain Research Inform Academic Learning and Instruction?**

Richard E. Mayer.

### **Undertaking Experiments in Social Sciences: Sequential, Multiple Time Series Designs for Consideration**

Huy P. Phan, Bing H. Ngu.

### **Effects of a Reading Strategy Training Aimed at Improving Mental Simulation in Primary School Children**

Björn B. de Koning, Lisanne T. Bos, Stephanie I. Wassenburg, Menno van der Schoot.