

---

## Journals of Interest - Mathematics and Science Education

December 2017

### TABLE OF CONTENTS

Journal .....	Page
<u>Educational Researcher.....</u>	<u>2</u>
<u>Volume 46, Issue 8 .....</u>	<u>2</u>
<u>International Journal of Science Education .....</u>	<u>3</u>
<u>Volume 39, Issue 14.....</u>	<u>3</u>
<u>Volume 39, Issue 15.....</u>	<u>3</u>
<u>Volume 39, Issue 16.....</u>	<u>4</u>
<u>Volume 39, Issue 17.....</u>	<u>5</u>

---

## **Educational Researcher**

[Volume 46, Issue 8](#)

### **Does Test Preparation Mean Low-Quality Instruction?**

David Blazzar, Cynthia Pollard.

### **The Challenge of Teacher Retention in Urban Schools: Evidence of Variation From a Cross-Site Analysis**

John P. Papay, Andrew Bacher-Hicks, Lindsay C. Page, William H. Marinell.

### **Segregation by District Boundary Line: The Fragmentation of Memphis Area Schools**

Erica Frankenberg, Genevieve Siegel-Hawley, Sarah Diem.

### **Considering Interest and Action: Analyzing Types of Questions Explored by Researcher-Practitioner Partnerships**

Karen D. Thompson, Martha I. Martinez, Chelsa Clinton, Guadalupe Diaz.

### **Impacts of Early Childhood Education on Medium and Long-Term Educational Outcomes**

Dana Charles McCoy, Hirokazu Yoshikawa, Kathleen M. Ziol-Guest, Greg J. Duncan, Holly S. Schindler, Katherine Magnuson, Rui Yang, Andrew Koepp, Jack P. Shonkoff.

---

## **International Journal of Science Education**

[Volume 39, Issue 14](#)

### **Development and exemplification of a model for Teacher Assessment in Primary Science**

D.J. Davies, S. Earle, K. McMahon, A. Howe, C. Collier.

### **Student experience of school science**

Shaista Shirazi.

### **Analysing the integration of engineering in science lessons with the Engineering Infused Lesson Rubric**

Karen Peterman, Jenny L. Dauthery, Rodney L. Custer, Julia M. Ross.

### **Student teachers' pedagogical content knowledge for teaching systems thinking: effects of different interventions**

Frank Rosenkränzer, Christian Hörsch, Stephan Schuler, Werner Riess.

### **Methodical challenges concerning the Draw-A-Scientist Test: a critical view about the assessment and evaluation of learners' conceptions of scientists**

Bianca Reinisch, Moritz Krell, Susann Hergert, Sarah Gogolin, Dirk Krüger.

[Volume 39, Issue 15](#)

### **Guiding students towards sensemaking: teacher questions focused on integrating scientific practices with science content**

Amanda Benedict-Chambers, Sylvie M. Kadermian, Elizabeth A. Davis, Annemarie Sullivan Palincsar.

### **Longitudinal study of a cooperation-driven, socio-scientific issue intervention on promoting students' critical thinking and self-regulation in learning science**

Hsin-Hui Wang, Hsiang-Ting Chen, Huann-shyang Lin, Yu-Ning Huang, Zuway-R Hong.

### **Is it the Earth that turns or the Sun that goes behind the mountains? Students' misconceptions about the day/night cycle after reading a science text**

Stella Vosniadou, Irimi Skopeliti.

### **Engaging students in learning science through promoting creative reasoning**

Bruce Waldrup, Vaughan Prain.

**An integrative review of in-class activities that enable active learning in college science classroom settings**

Leilani A. Arthurs, Bailey Zo Kreager.

**Characterising the development of the understanding of human body systems in high-school biology students- a longitudinal study**

Zohar Snapir, Catherine Eberbach, Orit Ben-Zvi-Assaraf, Cindy Hmelo-Silver, Jaklin Tripto.

**Instructional practices and science performance of 10 top-performing regions in PISA 2015**

Kwok-chi Lau, Terence Yuk-ping Lam.

**[Volume 39, Issue 16](#)**

**Questions as indicators of ocean literacy: students' online asynchronous discussion with a marine scientist**

Géraldine Fauville.

**Associations among attitudes, perceived difficulty of learning science, gender, parents' occupation and students' scientific competencies**

ShaoHui Chi, Zuhao Wang, Xiufeng Liu, Lei Zhu.

**Graduate teaching assistants' perceptions of teaching competencies required for work in undergraduate science labs**

Christopher Deacon, Allyson Hajek, Henry Schulz.

**Engineering design skills coverage in K-12 engineering program curriculum materials in the USA**

Vivien M. Chabalengula, Frackson Mumba.

**The effectiveness of advance organiser model on students' academic achievement in learning work and energy**

Asay Gidena, Desta Gebeyehu.

**The relationship between biology teachers' understanding of the nature of science and the understanding and acceptance of the theory of evolution**

Hernán Cofré, Emilia Cuevas, Beatriz Becerra.

**Defining contagion literacy: a Delphi study**

Margareta Kilstadius, Niklas Gericke.

[Volume 39, Issue 17](#)

**Science as experience, exploration, and experiments: elementary teachers' notions of 'doing science'**

Ashley N. Murphy, Melissa J. Luna, Malayna B. Bernstein.

**'Hard Science': a career option for socially and societally interested students? Grade 12 students' vocational interest gap explored**

Annemie Struyf, Jelle Boeve-de Pauw, Peter Van Petegem.

**Eliciting Taiwanese high school students' scientific ontological and epistemic beliefs**

Tzung-Jin Lin, Chin-Chung Tsai.

**How an inquiry-based classroom lesson intervenes in science efficacy, career-orientation and self-determination**

S. Schmid, F.X. Bogner.

**Refining a learning progression of energy**

Jian-Xin Yao, Yu-Ying Guo, Knut Neumann.

**Developing instruments concerning scientific epistemic beliefs and goal orientations in learning science: a validation study**

Tzung-Jin Lin, Chin-Chung Tsai.

**The psychological characteristics of experiences that influence science motivation and content knowledge**

Meghan Bathgate, Christian Schunn.

**A motivational account of the undergraduate experience in science: brief measures of students' self-system appraisals, engagement in coursework, and identity as a scientist**

Ellen Skinner, Emily Saxton, Cailin Currie, Gwen Shusterman.