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February 2026

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National Council of Educational Research & Training
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Preface

The Library and Documentation Division (LDD) of the National Council of Educational Research and Training (NCERT), serves as a crucial hub for information, research, and academic resources, supporting the diverse needs of educators, researchers, and policy-makers in education. Established to foster an environment conducive to educational excellence and innovation, LDD plays a pivotal role in the dissemination of knowledge and the promotion of advanced learning in the field of academic research. LDD is recognized for its hybrid collection of old and new print collections of books, journals, reports, and other reference collections.

LDD prepares Current Content of the variety of journals on the recommendation of concerned departments and esteemed faculty members of NCERT on related subjects of research like economics, education, psychology, educational research, gender studies, geography, linguistics, mathematics education, physics, science, social science, teacher education, value education, etc.

With the mandate of Prof. Dinesh Prasad Saklani, the Hon'ble Director, NCERT, the Library and Documentation Division executes several specialized services for its patrons known as *edudoc services*. In this edition of "EDUDOC SERVICES: CURRENT CONTENT," the LDD has delved into and presented a compilation of content pages of the recommended journals by the departments available through ONOS for the month of February 2026. The service facilitates connecting academicians with published articles in journals. For all the journals a hyperlink has also been provided for ease of navigation to the digital contents of the journals. Library and Documentation Division (LDD) at NCERT cordially invites academicians to explore and utilize our extensive collection of the recommended print journals and the journal available through ONOS. Suggestions are solicited to spruce up the library services better in honor of effectively and efficiently serving the academic community.

(Dr. Akash)
Head, LDD
NCERT, New Delhi

S.NO.	NAME OF JOURNALS	VOLUME NO.	ISSUE	MONTH	YEAR	PAGE NO.	PRINT OR ONLINE
ECONOMICS							
1	The Quarterly Journal of Economics	141	1	February	2026	1-2	Online
2.	The Journal of Economic Education	57	1	Jan- March	2026	3-8	Online
EDUCATION							
3	Globalization Societies and Education	24	2	March	2026	9-15	Online
4	International Journal of Educational Development	121	--	March	2026	16-21	Online
EDUCATIONAL RESEARCH							
5	Educational Action Research	34	1	--	2026	22-27	Online
6	Scandinavian Journal of Educational Research	70	2	March	2026	28-33	Online
PHYSICS							
7	American Journal of Physics	94	3	March	2026	34-42	Online
8	Physics Today	79	3	March	2026	43-48	Online
9	Physics World	38	11	November	2025	49-56	Online
10	Physics World	38	12	December	2025	57-61	Online
PHYSICOLOGY							
11	Journal of Humanistic Psychology	66	2	March	2026	62	Online
12	Psychology in the School	63	3	March	2026	63-65	Online

SCIENCE

13	Resonance: Journal of Science Education	31	2	February	2026	66-70	Online
----	---	----	---	----------	------	-------	--------

SOCIAL SCIENCE

14	The Social Studies	117	2	Mar-April	2026	71-73	Online
----	------------------------------------	-----	---	-----------	------	-------	--------

TEACHER EDUCATION

15	Action in Teacher Education	48	1	Spring	2026	74-77	Online
----	---	----	---	--------	------	-------	--------

16	Teaching and Teacher Education	173	--	April	2026	78-80	Online
----	--	-----	----	-------	------	-------	--------

17	Teaching and Teacher Education	174	--	May	2026	81-83	Online
----	--	-----	----	-----	------	-------	--------

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THE QUARTERLY JOURNAL OF ECONOMICS

FOUNDED 1886

Volume 141

February 2026

Issue 1

ARTICLES

- PANLE JIA BARWICK, SIYU CHEN, CHAO FU, AND TENG LI**
Digital Distractions with Peer Influence: The Impact of Mobile App Usage
on Academic and Labor Market Outcomes 1
- RAJ CHETTY, DAVID J. DEMING, AND JOHN N. FRIEDMAN**
Diversifying Society's Leaders? The Determinants and Causal Effects of Admission
to Highly Selective Private Colleges 51
- SERGIO CORREIA, STEPHAN LUCK, AND EMIL VERNER**
Failing Banks 147
- NATALIE BAU, GAURAV KHANNA, CORINNE LOW, AND ALESSANDRA VOENA**
Traditional Institutions in Modern Times: Dowries as Pensions when Sons Migrate 205
- ALI ALMELHEM, MURAT IYIGUN, AUSTIN KENNEDY, AND JARED RUBIN**
Enlightenment Ideals and Belief in Progress in the Run-up to the Industrial
Revolution: A Textual Analysis 263
- SYDNEE CALDWELL, INGRID HAEGELE, AND JÖRG HEINING**
Bargaining and Inequality in the Labor Market 315
- NIRUPAMA L. RAO AND MAX RISCH**
Who's Afraid of the Minimum Wage? Measuring the Impacts on Independent
Businesses Using Matched U.S. Tax Returns 373
- JACK MOUNTJOY**
Marginal Returns to Public Universities 429
- CAROLINA ARTEAGA AND VICTORIA BARONE**
Republican Support and Economic Hardship: The Enduring Effects of the Opioid Epidemic 499
- RONAN C. LYONS, ALLISON SHERTZER, ROWENA GRAY, AND DAVID AGORASTOS**
The Price of Housing in the United States, 1890–2006 559
- MICHAEL MCLEAY AND SILVANA TENREYRO**
Dollar Dominance and the Transmission of Monetary Policy 605
- MATTHEW BARON, LUC LAEVEN, JULIEN PÉNASSE, AND YEVHENII USENKO**
Permanent Capital Losses After Banking Crises 667
- PATRICK A. TESTA AND JHACOVA WILLIAMS**
Political Foundations of Racial Violence in the Post-Reconstruction South 733
- DESMOND ANG AND SAHIL CHINYOY**
Vanguard: Black Veterans and Civil Rights After World War I 795
- ELLIOTT ASH, DANIEL L. CHEN, AND SURESH NAIDU**
Ideas Have Consequences: The Impact of Law and Economics on American Justice 845

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QJE 141(1) 1–887 (2026)
Print ISSN 0033-5533; Online ISSN 1531-4650

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of Admission to Highly Selective Private Colleges 51
- SERGIO CORREIA, STEPHAN LUCK, AND EMIL VERNER**
Failing Banks 147
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Sons Migrate 205
- ALI ALMELHEM, MURAT IYIGUN, AUSTIN KENNEDY, AND JARED RUBIN**
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Industrial Revolution: A Textual Analysis 263
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- NIRUPAMA L. RAO AND MAX RISCH**
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Independent Businesses Using Matched U.S. Tax Returns 373
- JACK MOUNTJOY**
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- DESMOND ANG AND SAHIL CHINYOY**
Vanguard: Black Veterans and Civil Rights After World War I 795
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[Do academic honesty statements work? >](#)

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164	0	0
Views	CrossRef citations	Altmetric



- Article
Assessing gains from team-based learning in microeconomics >

Molly Espey & Devon Gorry

Pages: 14-26

Published online: 05 Nov 2025

179	0	0
Views	CrossRef citations	Altmetric



CONTENT ARTICLES IN ECONOMICS

- Article
Teaching two-sided labor search theory to undergraduates: A model and some exercises >

Michael B. Loewy

Pages: 27-38

Published online: 02 Sep 2025

156	0	0
Views	CrossRef citations	Altmetric



FEATURES AND INFORMATION

- Article
Students' perspectives of social media use in economics courses >

Brandon J. Sheridan, Darshak Patel, Abdullah Al-Bahrani & Johnny Ducking

Pages: 39-52

Published online: 13 Sep 2025

122	0	0
Views	CrossRef citations	Altmetric



Article
Adapting and enhancing an individual choice classroom experiment for remote asynchronous delivery: A practical case study >

Matthew Olczak & Chris M. Wilson

Pages: 53-66

Published online: 24 Sep 2025

386	0	0
Views	CrossRef citations	Altmetric



Introduction
Skills for the economic education researcher: A symposium >

Sam Allgood & KimMarie McGoldrick

Pages: 67-68

Published online: 19 Nov 2025

229	0	0
Views	CrossRef citations	Altmetric



Article
Elevating economic education scholarship: Best practices for academic economists in research vetting and presentation >

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Published online: 21 Oct 2025

74	0	0
Views	CrossRef citations	Altmetric



Article

Metrics methods for scholarship on teaching and learning in economics >

Wendy A. Stock

Pages: 81-89

Published online: 19 Nov 2025

75	1	0
Views	CrossRef citations	Altmetric



Article **Using RCTs in economic education research >**

Todd Pugatch & Elizabeth Schroeder

Pages: 90-104

Published online: 12 Dec 2025

96	0	3
Views	CrossRef citations	Altmetric



Article **Beyond anecdotes: Incorporating qualitative methods with rigor in economic education research >**

Alvin Birdi, Amanda Brooke Jennings & Christian Spielmann

Pages: 105-121

Published online: 13 Nov 2025

616	0	0
Views	CrossRef citations	Altmetric



Article **Building the RBG bridge: Expanding the capacity for research into diversity and inclusion in economics classrooms >**

Kristine West, Caroline Krafft, Allen Bellas, Ming Chien Lo & Mollie Pierson

Pages: 122-129

Published online: 26 Dec 2025

246	0	2
Views	CrossRef citations	Altmetric



Article
Enabling collaborative research at scale: The Economic Education Network for Experiments (EENE) >

George Orlov, D. McKee, B. Sheridan, E. C. Marshall & W. Goffe

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62	1	1
Views	CrossRef citations	Altmetric



ONLINE

Report
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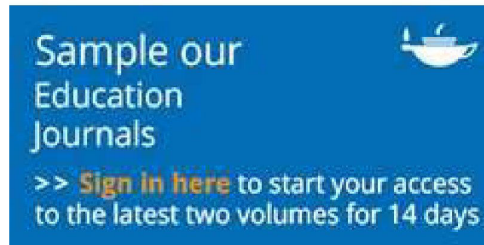
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**Education for Sustainable Development and Global Citizenship in the
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-------------------	------------------------	---------------------	--------------------------------

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Hira Amin & Michael Romanowski

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**Articles**

Article

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Published online: 09 Oct 2023

5642	23	7
Views	CrossRef citations	Altmetric



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Pages: 375-391

Published online: 18 Oct 2023

211	5	0
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408	3	3
-----	---	---

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Article

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666	4	3
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Article

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2270	5	0
Views	CrossRef citations	Altmetric



General Papers



Article

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113	0	
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Article

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850	8	
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Article

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2225	4	
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○ Article

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○ Article

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898	14	
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Andrew Townsend

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Karin Rönnerman & Ann Nordberg

Pages: 5-20

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2988	1	0
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Article

The individualized education program in early childhood education: improving inclusive practices through action research >

Evdoxia Nteropoulou-Nterou & Maria Gelastopoulou

Pages: 21-40

Published online: 04 Apr 2025

339	0	0
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Article

Action research for character development in 18 classrooms in Latin America: reflections, learnings and challenges >

Francisco Moller, Natalí Flego & Luciana Arnaudo

Pages: 41-60

Published online: 13 Feb 2025

176	0	0
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○ Article
Processes of change in student-teacher partnerships: a review of literature >

Jetske Strijbos & Joost Vaesen

Pages: 61-82

Published online: 10 Jul 2025

98	0	0
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○ Article
Promoting reflection through an engaged action research practicum >

Corinne Barger & S. Lara

Pages: 83-101

Published online: 03 Jun 2025

128	0	0
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○ Article
Navigating inherent challenges of locally focused action research in graduate education >

Kayla M. Anderson & Brian D. Christens

Pages: 102-122

Published online: 13 May 2025

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Article

Preparing for participatory action research: professional development to support education doctoral students' critical reflexivity >

Amy J. Anderson & Nicole Sankofa

Pages: 123-137

Published online: 25 Apr 2025

295	1	0
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Article

Effects of a participatory action research practice-based programme on the professional practice development of science teachers >

Rasha Abdullah M. Kulaibi & Halah Saeed A. B. Alamodi

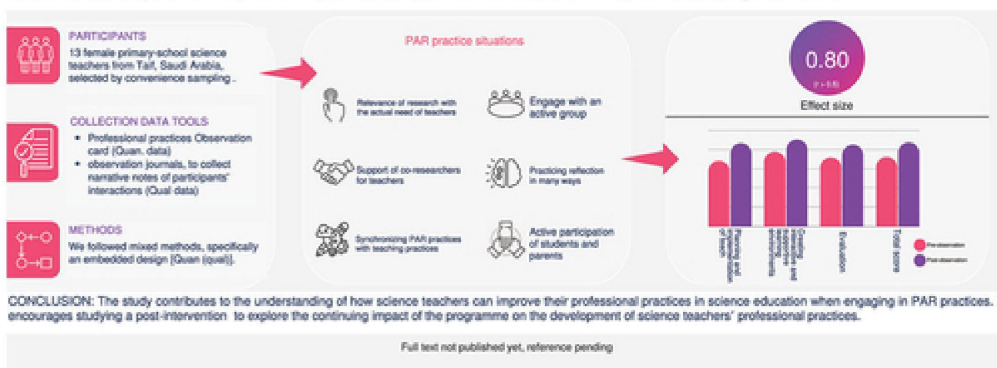
Pages: 138-162

Published online: 07 Apr 2025

Effects of a participatory action research practice-based programme on the professional practice development of science teachers

Kulaibi & Alamodi, 2024 | Educational Action Research

BACKGROUND: study explored the professional practice development science teachers in a PAR practice-based programme conducted.



305	0	0
Views	CrossRef citations	Altmetric



Article

Theatre of the oppressed for empowerment and research >

Alena Kořák Felcmanová, Tereza Pospíšilová & Dana Moree

Pages: 163-180

Published online: 06 Nov 2024

340	0	0
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Article

Using community-based participatory action research to create culturally grounded education at scale: a study of systems change in Peru >

Joseph Levitan, Kayla Johnson, Andrea Velasquez, Jessica Perez & Sulem Bello

Pages: 181-200

Published online: 28 Feb 2025

225	1	0
Views	CrossRef citations	Altmetric



Book Review



Book Review

Empowering teachers for equitable and sustainable education: action research, teacher agency, and online community >

by Maria Teresa Tatto & Lindsey Brown (Eds.), New York, Routledge, 2024, 290 pp., \$ 55,99 (paperback), ISBN 978-1-032-69926-4

Anisah Setyaningrum & Jamilah

Pages: 201-203

Published online: 25 Sep 2025

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Articles

Article
Teacher well-being in change: a quantitative analysis of schoolteachers' approaches to teaching and their teaching-related well-being during rapid shift in their work environment [>](#)

Juulia Lahdenperä & Liisa Postareff

Pages: 249-265

Published online: 23 Feb 2025

1298	1	1
Views	CrossRef citations	Altmetric



- Article
Teacher conceptions of assessment and feedback predicting formative feedback practices: helping students to not ignore improvement-oriented feedback >

Gavin T. L. Brown, Catarina Andersson, Mikael Winberg, Björn Palmberg & Torulf Palm

Pages: 266-284

Published online: 25 Feb 2025

3877	3	0
Views	CrossRef citations	Altmetric



- Article
How to improve the effectiveness of learning from practice – the case of Norwegian customs and border management bachelor programme >

Marja Ylönen, Eirik Abrahamsen & Christian Kuran

Pages: 285-301

Published online: 28 Feb 2025

582	0	
Views	CrossRef citations	Altmetric



- Article
Conflicts of interest in environmental and sustainability education >

Linnea Urberg

Pages: 302-315

Published online: 06 Mar 2025

1551	3	
Views	CrossRef citations	Altmetric



- Article
Profiles of teachers' resilience and work burnout: the role of individual and contextual factors >

1731	0	
Views	CrossRef citations	Altmetric



○ Article

Operationalisation of the UN Sustainable Development Goals in the teaching of “non-green” subjects in HE – a case study from a Norwegian university >

Ingrid Bårdsdatter Bakke, Bendik Stubstad Henriksen & Ståle Størdal

Pages: 333-356

Published online: 19 Mar 2025

526	0	
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○ Article

Cooperation within the school community to overcome cyberbullying: a systematic scoping review >

Martyna Bell, Serap Keles, May Irene Furenes Klippen, Simona Carla Silvia Caravita & Hildegunn Fandrem

Pages: 357-372

Published online: 13 Mar 2025

1671	3	
Views	CrossRef citations	Altmetric



○ Article

Home economics teachers’ endeavours to engage students in sustainability thinking through clothing and fashion: a transformational teaching approach >

Hanna Kuusisaari, Maria Campbell & Minna Autio

Pages: 373-388

Published online: 15 Apr 2025

1949	1	
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○ Article
Sensory reflections: towards the development of cooking literacy in Swedish Home Economics >

Ingela Bohm

Pages: 389-401

Published online: 17 Apr 2025

1325	0	
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○ Article
A mixed-methods study on the effects of a growth mindset program in Finnish elementary schools >

Sonja Laine, Ita Puusepp, Elina Kuusisto, Inkeri Rissanen & Kirsi Tirri

Pages: 402-421

Published online: 20 Apr 2025

1185	0	
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○ Article
Teachers' (mis)recognition of pupils' cultural capital and their navigation of schools' middle-class normativity >

Ida Hummelstedt, Sonja Kosunen, Gunilla Holm & Pia Mikander

Pages: 422-435

Published online: 16 Apr 2025

1243	1	
Views	CrossRef citations	Altmetric



○ Article
Early childhood education and care teacher students' experiences of learning for sustainable development through social entrepreneurship >

Ingunn Elder & Gjertrud Stordal

Pages: 436-448

Published online: 17 Apr 2025

892	0	
Views	CrossRef citations	Altmetric



○ Article
Children's school reluctance and satisfaction: the combined role of teacher support and parent-child relation >

Linda Larsen, Olav Bertin Tveit & Tonje Holt

Pages: 449-466

Published online: 20 Apr 2025

1329	0	
Views	CrossRef citations	Altmetric



○ Article
Unpacking the problem: analysing interactions in a peer-group mentoring session >

Sofie Bastiansen, Thomas de Lange & Anne Line Wittek

Pages: 467-483

Published online: 20 Apr 2025

371	0	
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○ Article
Student teachers' learning-to-teach patterns: connecting teaching approaches, teacher intentions, and self-perceived instructional impact >

Mikko Tiilikainen, Auli Toom, Janne Lepola & Jukka Husu

Pages: 484-502

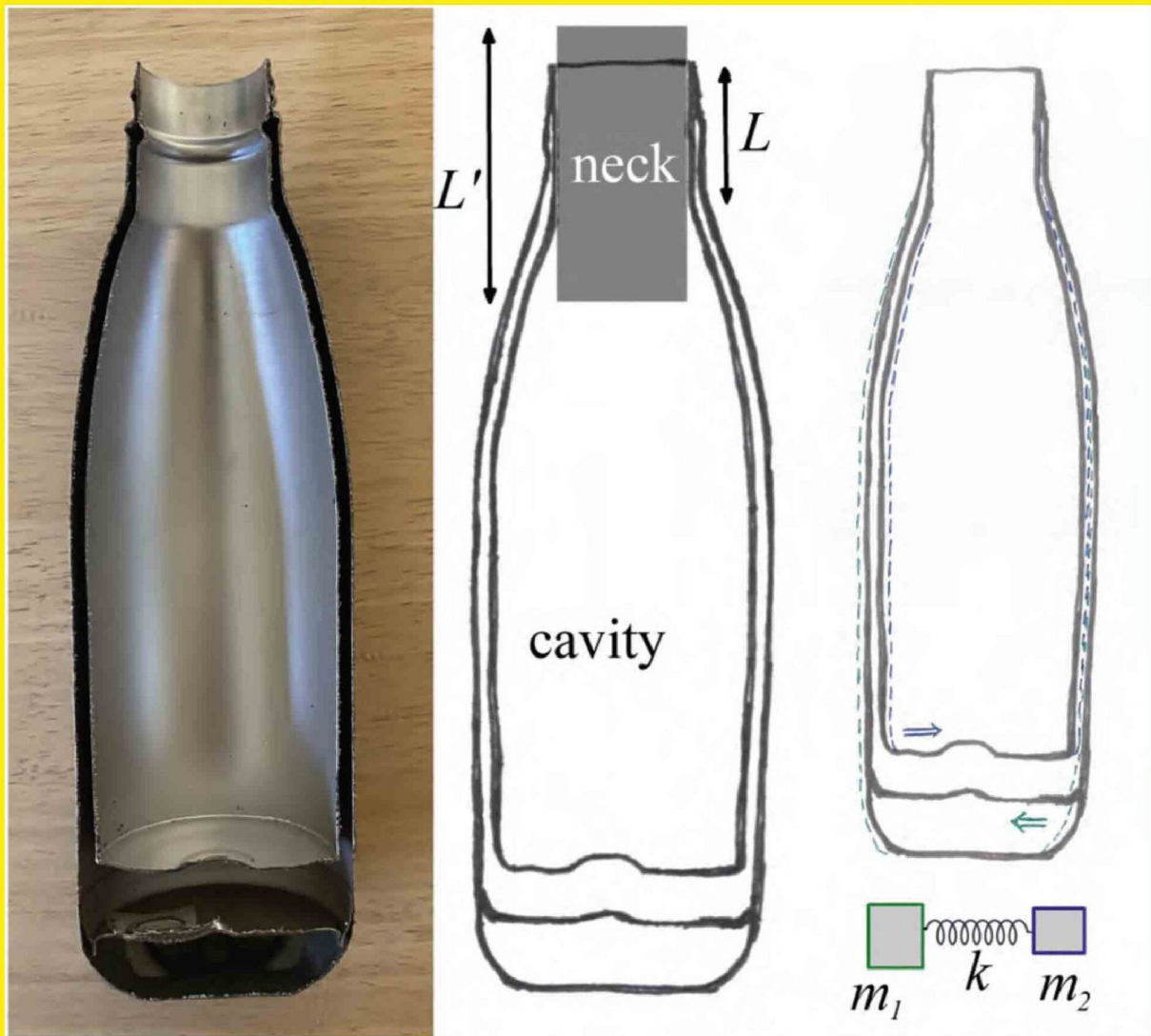
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AMERICAN JOURNAL of PHYSICS

Volume 94, No. 3, March 2026



A PUBLICATION OF THE AMERICAN ASSOCIATION OF PHYSICS TEACHERS

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EDITORIAL

In this issue: March 2026 

[Sathya Guruswamy](#); [Jesse Kinder](#); [Claire A. Marrache-Kikuchi](#); [Beth Parks](#); [Daniel Schumayer](#); [Todd Springer](#); [Keith Zengel](#)


Am. J. Phys. 94, 169–170 (2026) <https://doi.org/10.1119/5.0325184>

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LETTERS TO THE EDITOR

Spacetime intervals as light rectangles: Comment on “On the invariance of the spacetime interval” [*Am. J. Phys.* 94, 68–71 (2026)] 

[Aleksandar Gjurchinovski](#)

Am. J. Phys. 94, 171 (2026) <https://doi.org/10.1119/5.0319381>

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Reply to Aleksandar Gjurchinovski's comment 

[M. Moriconi](#)

Am. J. Phys. 94, 172 (2026) <https://doi.org/10.1119/5.0323347>

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PAPERS

Brian DiGiorgio Zanger

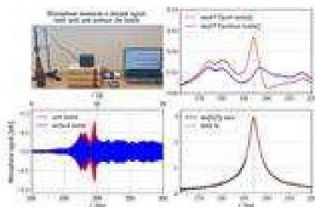
Am. J. Phys. 94, 173–179 (2026) <https://doi.org/10.1119/5.0276805>

Editor's Note: Despite their historical popularity, in recent years undergraduate oral examinations have become less and less common in the United States. However, recent technological advances (especially the rise of generative artificial intelligence) are making it more difficult to maintain the academic integrity of in-class or take-home written exams. In response, many instructors are reconsidering the role of the oral exam in modern assessment. This article describes one author's experience and method for administering oral exams in upper-division undergraduate physics and astronomy courses, along with helpful discussion and resources for instructors. We hope this article serves as an inspiration for readers interested in exploring alternative assessment methods.

[Abstract](#) 

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Exploring Fourier methods with beer bottles

David Kordahl; Emma Foster

Am. J. Phys. 94, 180–185 (2026) <https://doi.org/10.1119/5.0245272>

Editor's Note: This article presents a simple acoustics experiment using beer bottles to explore Fourier methods and the physics of driven damped oscillators. The setup is simple: by recording the sound emitted by a speaker with and without a bottle in the vicinity, students can extract the system's Green's function using either pure tones or chirp excitations. Both methods demonstrate how Fourier analysis can be used to extract the resonance parameters with minimal equipment, making it ideal for undergraduate wave physics laboratories. The setup is inexpensive and analyzing the measurements also introduces signal processing and frequency-domain analysis. Plus, after performing these experiments, your students will always think of Green's functions when having a beer.

[Abstract](#) 

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Two oscillators in the double-wall bottle

Daniel O. Ludwigsen; Alexandria Meade

Am. J. Phys. 94, 186–190 (2026) <https://doi.org/10.1119/5.0304544>

Editor's Note: When you add water to a bottle, does its acoustic resonance shift to a higher or lower frequency? In the case of a double-walled water bottle, both answers are correct! The frequency of the Helmholtz resonance increases, but added water decreases the frequency of the structural resonance in which the concentric walls move in opposite directions. This behavior is the basis of a fun lab experiment that can teach students about modeling resonances while making good use of these ubiquitous bottles.

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How physics got its right hand: The origins of chiral conventions in electromagnetism

Tyler McMaken

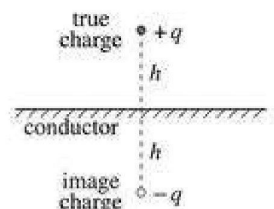
Am. J. Phys. 94, 191–196 (2026) <https://doi.org/10.1119/5.0282367>

Editor's Note: Why is a positive angle measured counterclockwise? Why do we use right-handed coordinate systems in physics? Why is the Earth's geographic north pole a magnetic south pole? Who decided? When? In this article, the author explores the interesting history behind these seemingly arbitrary conventions, from fluxions and quaternions to vines and hops. The narrative provides more than interesting trivia—like how Ampere's “left-arm rule” evolved into today's “right-hand rule.” It also provides historical background for courses in electricity and magnetism and can inform classroom discussions about conventions, standards, and communication in science.

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An instructive paradox in the method of images

Anupam Garg

Am. J. Phys. 94, 197–201 (2026) <https://doi.org/10.1119/5.0283441>

Editor's Note: How do you calculate the dipole moment when using the method of images? This article demonstrates that two sensible approaches for a standard image charge problem yield conflicting results. Resolving the paradox provides insight into the multipole expansion and mathematical nuances that physicists often ignore. The

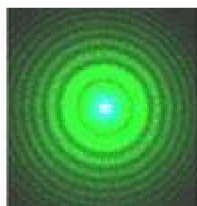
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examples here could enrich a junior-level electrodynamics course—or stump your colleagues in the physics department.

[Abstract](#) ▾

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Interference rings by scattered light

[Giuliano Mallocci](#); [Guido Pegna](#)

Am. J. Phys. 94, 202–205 (2026) <https://doi.org/10.1119/5.0278586>

Editor's Note: Optics instructors will want to try the demonstration described in this paper, which updates an often-overlooked geometry for illustrating both scattering and interference of light. The authors show how to simplify the analysis so that it is appropriate even for the introductory classroom.

[Abstract](#) ▾

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Using quantum computers to simulate single-photon Mach–Zehnder interferometers

[S. Kang](#); [Z. He](#); [S. Banerjee](#); [J. K. Freericks](#)

Am. J. Phys. 94, 206–216 (2026) <https://doi.org/10.1119/5.0268545>

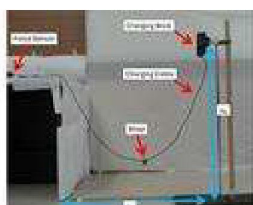
Editor's Note: If you want to simulate a quantum mechanics experiment, why not use a quantum computer? This paper gives instructions for simulating the Mach–Zehnder interferometer using the IBM Sherbrooke quantum computer and the Qiskit programming language. Even students in large classes who cannot be provided with the opportunity to perform hands-on experiments can instead perform their own simulations after a few lessons on modeling spins on quantum computers. This content could be incorporated into a course on quantum computing or into a quantum mechanics course at any level.

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Introduction to machine learning in undergraduate physics

Shafat Mubin; Xavier Wellons

Am. J. Phys. 94, 217–223 (2026) <https://doi.org/10.1119/5.0243715>

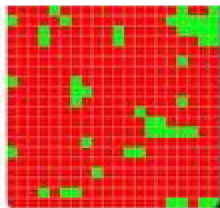
Editor's Note: You know AI and Machine Learning are important topics to teach your students, but you don't really know how to introduce these tools in your undergraduate physics curriculum? This paper provides you with a few examples, taken from the fields of mechanics and thermodynamics and requiring minimal programming expertise. Using Mathematica's built-in machine learning models, the authors demonstrate how these can be trained on numerical datasets, simulated trajectories, and even pictures to extract physical parameters. For instance, given the 2D trajectory of a projectile, a trained model is able to determine its drag coefficient. These examples illustrate how machine learning can (almost painlessly) be integrated into existing courses, providing students with hands-on experience in modern computational methods while deepening their physics understanding.

[Abstract](#) 

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COMPUTATIONAL PHYSICS



Introduction to supervised machine learning for physics students



Jan Tobochnik; Harvey Gould

Am. J. Phys. 94, 224–229 (2026) <https://doi.org/10.1119/5.0285290>

Editor's Note: For instructors who would like to give their students an introduction to how machine learning works “under the hood,” this paper discusses the simplest machine learning algorithm, logistic regression. It is applied to classify two types of physical systems: the Ising systems above and below the critical temperature, and motion due to different central forces. The paper also includes sample problems for students.

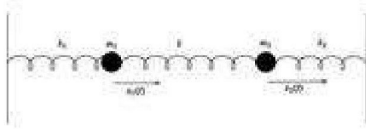
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ADVANCED TOPICS





Introduction to higher-order classical dynamics: Pais–Uhlenbeck model and coupled oscillators

Cássius Anderson Miquele de Melo; Ivan Francisco de Souza

Am. J. Phys. 94, 230–238 (2026) <https://doi.org/10.1119/5.0284311>

Editor's Note: Most classical mechanics textbooks include discussions of the Lagrangian and Hamiltonian formalisms. Few tell the reader what to do when their system depends on derivatives higher than second order. In this paper, the authors show how to handle such systems, with two examples. These examples have two delightful teaching uses. First, we see a new way to think about coupled oscillators. Second, we see how to think of complicated theoretical systems as coupled oscillators!

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On the Bogoliubov–Valatin transformation for fermionic Hamiltonians without a linear part

Davide Bonaretti

Am. J. Phys. 94, 239–244 (2026) <https://doi.org/10.1119/5.0291967>

Editor's Note: Many quantum-mechanical models use quadratic Hamiltonians; however, they are seldom in a diagonal form, hence one cannot easily read off the energy spectrum. The Bogoliubov–Valatin transformation is a canonical change of creation and annihilation operators that diagonalizes such Hamiltonians, thereby revealing the quasiparticle excitations of many-body systems. Although the technique often appears in widely used textbooks, the mathematical details or corner cases are omitted. The strength of the current article is that it discusses the construction of the transformation under minimal assumptions and also treats singular cases. It can provide valuable complementary material in graduate-level courses, and student problems can be constructed from examples.

[Abstract](#)

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The Poynting vector should be $\mathbf{E} \times \mathbf{B}/\mu_0$ not $\mathbf{E} \times \mathbf{H}$

Kirk T. McDonald

Am. J. Phys. 94, 245–247 (2026) <https://doi.org/10.1119/5.0297408>

Editor's Note: This Note revisits Poynting's analysis of electromagnetic work, energy density, and energy flux in matter. While Poynting focused on the interaction between fields and free charges, the author argues that making the role of bound charges

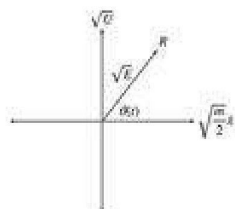
explicit sheds light on the Abraham–Minkowski controversy over the proper definition of electromagnetic momentum.

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NOTES AND DISCUSSIONS



An alternative Lagrangian approach

Keith Zengel

Am. J. Phys. 94, 248–252 (2026) <https://doi.org/10.1119/5.0307168>

Editor's Note: This paper makes use of a degree of freedom that you may not have known existed: the Lagrangian doesn't have to be $T-U$. Similar to the magnetic vector potential that can take alternative forms within gauge freedom, the Lagrangian can also vary by an additive term. Taking advantage of this freedom can allow the Lagrangian to be written as a perfect square, and the Euler–Lagrange equation becomes a first-order differential equation. This transformation is also linked to the generating function in Hamiltonian theory. Instructors in the advanced undergraduate mechanics course will enjoy this short paper.

Abstract 

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Fixed-point iteration for numerical solutions to equations in physics: Comment on “Solving introductory physics problems recursively using iterated maps” [*Am. J. Phys.*, **93**, 336–343 (2025)]

J. J. Bissell

Am. J. Phys. 94, 253–254 (2026) <https://doi.org/10.1119/5.0274265>

Editor's Note: A recently published article by English *et al.* illustrated the use of fixed-point iteration as a way to solve a classic introductory physics problem. This follow-up comment solves the same problem using alternative iterative maps with varying convergence properties, demonstrating the importance of experimenting with different schemes when solving problems iteratively. Readers interested in developing their undergraduates' numerical skills early on in the curriculum will find additional inspiration in this insightful complement to the original article.

Abstract 

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BOOK REVIEWS

Soft matter: Concepts, Phenomena, and Applications 

[Suraj Shankar](#)

Am. J. Phys. 94, 255–256 (2026) <https://doi.org/10.1119/5.0324450>

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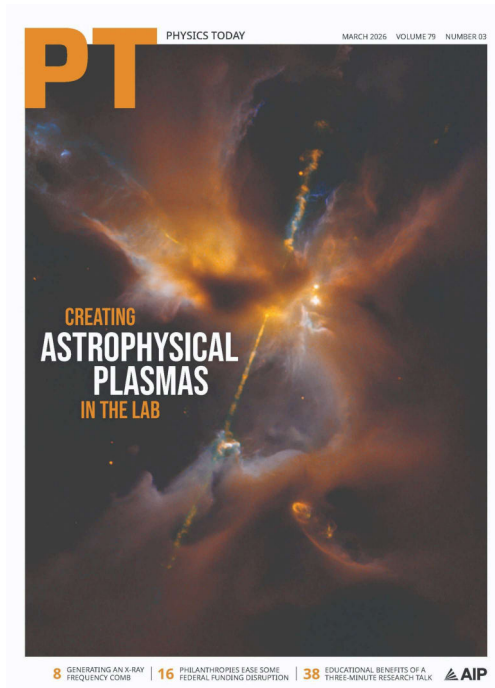
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MAR 01, 2026

Volume 79, Issue 3

On the cover

Two narrow jets of plasma erupt from a newborn star found in the constellation Orion in this *Hubble Space Telescope* image. The jets together are 10^{13} m long and may form when matter in the star's accretion disk interacts with the



studying the essential physics of the jets is for researchers to create millimeter-sized versions in the lab. The making of energetic, magnetized plasmas in the lab is discussed in the [article](#) by Jack Hare. (Image from NASA, ESA, *Hubble* Heritage/*Hubble*-Europe Collaboration, D. Padgett, T. Megeath, and B. Reipurth.)

News



[NEWS](#) / [ARTICLE](#)

Coherent x rays generate equally spaced ultrafast pulses

SEP 20 2022



[NEWS](#) / [ARTICLE](#)

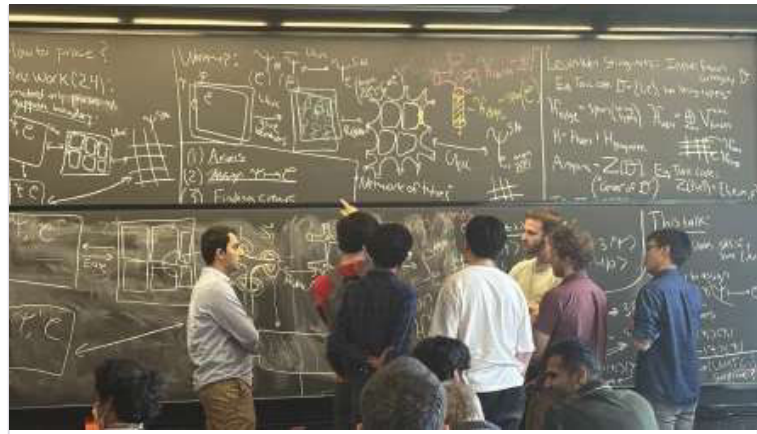
The new math of network optimization, courtesy of string theory

JAN 20 2022



NEWS / ARTICLE

Data reanalysis throws existence of an ocean on Titan into question



NEWS / ARTICLE

Philanthropies selectively mitigate damage from lost federal science funding



NEWS / ARTICLE

What the National Center for Atmospheric Research means to the atmospheric sciences

FEB 12, 2026

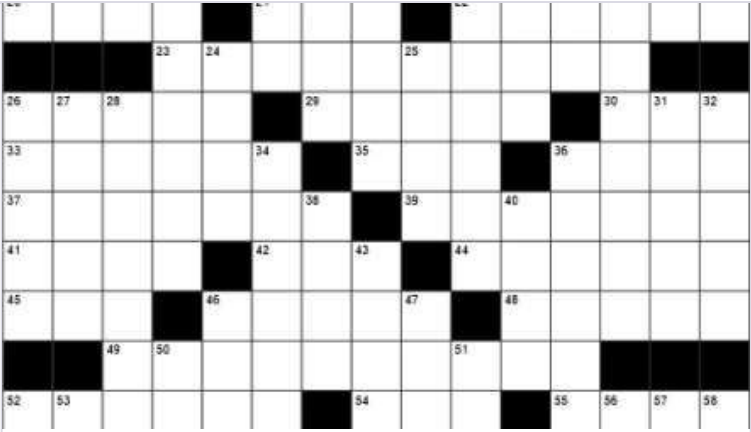


NEWS / ARTICLE

Q&A: Trity Pourbahrami helps scientists communicate their work

JAN 29, 2026

	Prior-year funding (in millions of dollars)	Percent change for FY 2026
DOE renewable energy	3 460	
NSF	9 060	
DOE ARPA-E	460	
NASA science	7 334	



NEWS / ARTICLE

Crossword: March 2026

FEB 27, 2026

Features



FEATURES / ARTICLE

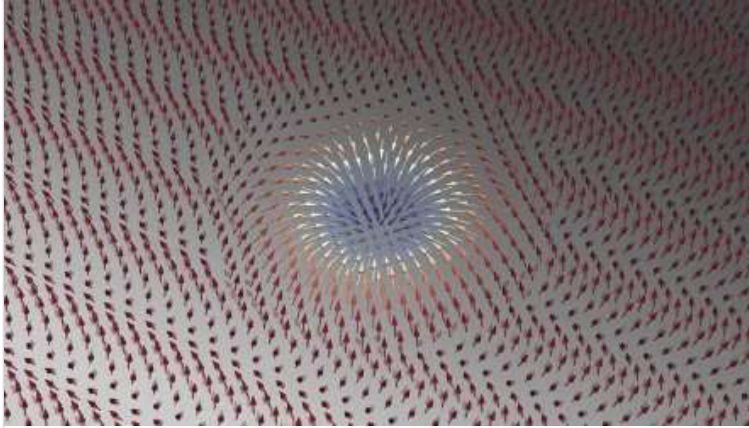
FEATURES / ARTICLE

Making magnetized plasmas in the lab

FEB 04, 2026

Speak easy: The educational benefits of a three-minute research talk

FEB 05, 2026

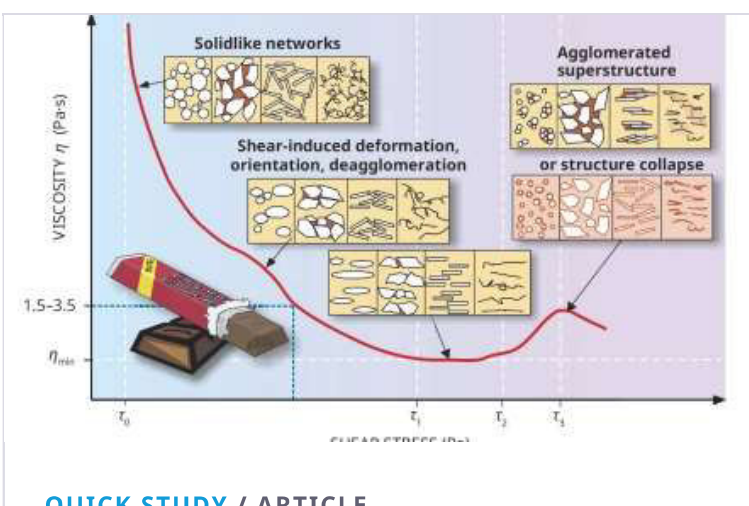


FEATURES / ARTICLE

Magnetic skyrmions: A new frontier for quantum computing

FEB 11, 2026

Quick Study

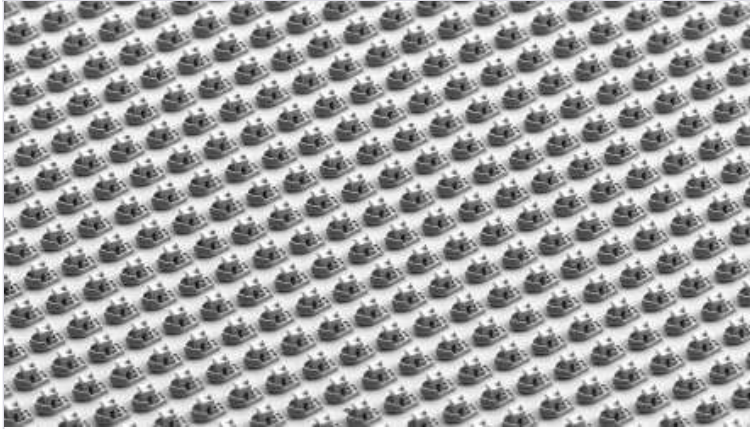


QUICK STUDY / ARTICLE

chocolate?

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Back Scatter



[BACK SCATTER](#) / ARTICLE

Tiny boats demonstrate a new nanolithography technique

FEB 06, 2026

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Table of contents for issue 11, volume 38, Physics World

Volume 38

Number 11, November 2025

[← Previous issue](#) [Next issue →](#)

Close all abstracts

News & Analysis

Quantum tunnelling bags Nobel prize 3

Hamish Johnston and Michael Banks

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The 2025 Nobel Prize for Physics has gone to John Clarke, Michel Devoret and John Martinis for the discovery of macroscopic tunnelling, as Hamish Johnston and Michael Banks report

<https://doi.org/10.1088/2058-7058/38/11/01>

Chemistry Nobel goes to work on metal-organic frameworks 4ii

Michael Banks

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Susumu Kitagawa, Richard Robson and Omar Yaghi have been awarded the 2025 Nobel Prize for Chemistry “for developing metal-organic frameworks” (MOFs).

<https://doi.org/10.1088/2058-7058/38/11/02>

Cosmology pioneer George Smoot dies aged 80 5i

Michael Banks

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George Smoot, who shared the Nobel Prize for Physics in 2006 for his studies of the cosmic microwave background (CMB), died on 18 September at the age of 80.

NASA launches IMAP to upgrade space weather forecasts

5ii

Michael Banks

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NASA has launched a two-year mission to study the boundary of the heliosphere, a huge protective bubble in space created by the Sun.

<https://doi.org/10.1088/2058-7058/38/11/04>

NASA criticized over Dragonfly

6i

Peter Gwynne

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An internal audit has slammed NASA over its handling of the Dragonfly mission to Saturn's largest moon, Titan.

<https://doi.org/10.1088/2058-7058/38/11/05>

Physics departments at risk, warns IOP

6ii

Michael Banks

 View article  PDF

More than a quarter of UK university physics departments could be shut down within the next couple of years, according to a survey carried out by the Institute of Physics.

<https://doi.org/10.1088/2058-7058/38/11/06>

Michael Berry wins 2025 Isaac Newton Medal

7i

Michael Banks

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The theoretical physicist Michael Berry from the University of Bristol, UK, has won the 2025 Isaac Newton Medal and Prize for his “profound contributions across mathematical and theoretical physics in a career spanning over 60 years”.

<https://doi.org/10.1088/2058-7058/38/11/07>

Michael Banks

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London-based artist Oksana Kondratyeva has created a new stained-glass artwork – entitled Discovery – inspired by the detection of the Higgs boson at CERN’s Large Hadron Collider (LHC) in 2012.

<https://doi.org/10.1088/2058-7058/38/11/08>

Peter Gwynne

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Almost 60 US scientific societies have signed a letter calling on the US government to “safeguard the integrity” of the peer-review process when distributing grants.

<https://doi.org/10.1088/2058-7058/38/11/09>

Michael Banks

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Photographers Weitang Liang, Qi Yang and Chuhong Yu have beaten thousands of amateur and professional photographers from around the world to receive the 2025 Royal Observatory Greenwich’s ZWO Astronomy Photographer of the Year.

<https://doi.org/10.1088/2058-7058/38/11/10>

Research Updates

Isabelle Dumé

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New measurements on Bose–Einstein condensates could help us to understand how objects go from being quantum and ordered to classical and chaotic, as Isabelle Dumé explains.

<https://doi.org/10.1088/2058-7058/38/11/11>

Sam Jarman

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The first-ever “space–time crystal” has been created by researchers in the US.

<https://doi.org/10.1088/2058-7058/38/11/12>

Kirigami-inspired parachute achieves perfect landing

12ii

Sam Jarman

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Researchers in Canada and France have designed a kirigami-inspired parachute that can safely and accurately deliver its payloads when dropped directly above its target.

<https://doi.org/10.1088/2058-7058/38/11/13>

Dark energy solution compatible with observed neutrino masses

13i

Isabelle Dumé

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An unconventional approach to solving the dark energy problem appears to be compatible with the observed masses of neutrinos.

<https://doi.org/10.1088/2058-7058/38/11/14>

Protein qubit could be used inside cells as a quantum biosensor

13ii

Isabelle Dumé

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A new optically addressable quantum bit (qubit) encoded in a fluorescent protein could be used as a sensor that can be directly produced inside living cells.

<https://doi.org/10.1088/2058-7058/38/11/15>

Comment

Editorial

Matin Durrani

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Celebrating this year's Nobel laureates – and others you might not have heard of.

<https://doi.org/10.1088/2058-7058/38/11/16>

Critical Point

Particle afterglow

17

Robert P Crease

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The 1980s and 1990s were a unique time for particle physics in the aftermath of the Standard Model, says Robert P Crease.

<https://doi.org/10.1088/2058-7058/38/11/17>

Forum

Physics for the environment

19

Peter Hughes

[View article](#) [PDF](#)

As climate change intensifies, it is crucial that environmental physics is taught to every physics undergraduate, explains Peter Hughes.

<https://doi.org/10.1088/2058-7058/38/11/18>

Transactions

Materials science: our century's new alchemy?

21

Honor Powrie



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With the 2025 Fall Meeting of the Materials Research Society starting in Boston at the end of this month, Honor Powrie believes the field is the most rewarding and challenging in all of science, with its practitioners striving to create “new gold”.

Reviews

Talking with aliens 24

Hamish Johnston

 View article  PDF

Hamish Johnston reviews Do Aliens Speak Physics? by Daniel Whiteson and Andy Warner.

<https://doi.org/10.1088/2058-7058/38/11/19>

Feedback

Musing on metaphors 26i

Guy Matthews, Laurence Rothwell and Chris Atkins

 View article  PDF

A reply to Robert P Crease's September 2025 Critical Point article about scientific metaphors that can be experimentally verified.

<https://doi.org/10.1088/2058-7058/38/11/21>

India outnumbered 26ii

Anita Richards

 View article  PDF

A response to the August 2025 article about women quantum scientists in India by Tanusri Saha-Dasgupta and Rupamanjari Ghosh.

<https://doi.org/10.1088/2058-7058/38/11/22>

Video fears 26iii

Alex McDowell

 View article  PDF

A response to the September 2025 interview with Emanuel Wallace, whose educational science videos have become a huge hit online.

<https://doi.org/10.1088/2058-7058/38/11/23>

Martin Reynolds

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A correspondent who, after taking a degree in mathematics at the Open University almost 40 years after his degree in physics, finds himself beginning a new life as a mathematician.

<https://doi.org/10.1088/2058-7058/38/11/24>

David Murnaghan

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A response to the April 2025 interview with Douglas Goff about the physics of ice cream.

<https://doi.org/10.1088/2058-7058/38/11/25>

Features

Margaret Harris

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Gabriel Lippmann received the 1908 Nobel Prize for Physics for a version of colour photography that never took off. Four years later, Gustaf Dalén was honoured for inventing, of all things, a valve used in lighthouses. Margaret Harris uncovers the stories behind these lesser-known laureates.

<https://doi.org/10.1088/2058-7058/38/11/26>

Philip Ball

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Quantum computing is booming in the world of business, with about 400 competing companies, lots of rival qubit platforms and varying measures of merit. Philip Ball explores how the quantum tech landscape is developing.

<https://doi.org/10.1088/2058-7058/38/11/27>

Elizabeth Pasatembou and Dimitrie Cielecki

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With the quantum sector quickly evolving, governments are getting scientific policies and regulations in place to ensure the new technology will benefit our society. During their PhDs, Elizabeth Pasatembou and Dimitrie Cielecki took part in policy engagement to understand the process and how scientists can get involved.

<https://doi.org/10.1088/2058-7058/38/11/28>

Careers

Physicists powering the nuclear energy industry

46

Sarah Tesh

[View article](#) [PDF](#)

With the push to move away from fossil fuels, the UK is turning to nuclear power. New reactors are being built and new technology is being developed, but there is a skills shortage. Sarah Tesh talks to six physicists working across the nuclear energy industry, highlighting how a background in physics can open many doors in this expanding sector.

<https://doi.org/10.1088/2058-7058/38/11/29>

Ask me anything: Scott Bolton

51

Margaret Harris

[View article](#) [PDF](#)

Planetary scientist Scott Bolton is an assistant vice president at Southwest Research Institute in San Antonio, Texas, US, and the principal investigator of NASA's Juno mission, which has been exploring Jupiter since July 2016.

<https://doi.org/10.1088/2058-7058/38/11/30>

Lateral Thoughts

Slow science, fast success

56

Stefan Hutzler and Louise Bradley

[View article](#) [PDF](#)

Table of contents for issue 12, volume 38, Physics World

Volume 38

Number 12, December 2025

[← Previous issue](#)

[Open all abstracts](#)

News & Analysis



NASA centre hit by major downsizing 3

Peter Gwynne

 [View article](#)  [PDF](#)

Lower exam stakes could cut the gender grade gap 4i

Michael Allen

 [View article](#)  [PDF](#)

Jim Al-Khalili celebrates Quantum Year at the Royal Institution 4ii

Matin Durrani

 [View article](#)  [PDF](#)

JPL lays off 10% of staff 5i

Peter Gwynne

 [View article](#)  [PDF](#)

Chinese scientists lead more collaborations 5ii

Michael Allen

 [View article](#)  [PDF](#)

Shenzhou-20 return delayed by space debris 5iii

Michael Banks



 [View article](#)  [PDF](#)

Nobel laureate Chen-Ning Yang dies aged 103 6

Research Updates

First room-temperature superconductor 9

Isabelle Dumé

 View article  PDF

Triple-junction perovskite solar cell breaks efficiency records 10i

Liam Critchley

 View article  PDF

Wearable UVA sensor monitors overexposure to sunlight 10ii

Sam Jarman

 View article  PDF

Entangled light leads to quantum advantage 11i

Isabelle Dumé

 View article  PDF

Physicists 'quantum squeeze' a nanoparticle for the first time 11ii

Isabelle Dumé

 View article  PDF

Adaptive optics technique boosts the power of gravitational wave detectors 12i

Isabelle Dumé

 View article  PDF

Here's how fast-moving droplets stick to hydrophobic surfaces 12ii

Isabelle Dumé

 View article  PDF

Quantum fluids found to mix like oil and water 13i

Ali Lezeik

 View article  PDF

Ultrasound probe maps real-time blood flow across entire organs 13ii

Tami Freeman

 [View article](#)  [PDF](#)



Comment

Editorial

A quantum future

15

Matin Durrani

 [View article](#)  [PDF](#)

Critical Point

Trump's 'blitzkrieg'?

17

Robert P Crease

 [View article](#)  [PDF](#)

Forum

Quantum computing: hype or hope?

19

Honor Powrie

 [View article](#)  [PDF](#)

Transactions

The 'future of physics' problem

21

Neil Downie

 [View article](#)  [PDF](#)

Feedback

Dalén's legacy

23i

Jonas Persson and Margaret Harris

 [View article](#)  [PDF](#)

AI and fusion

23ii

Guy Matthews

 [View article](#)  [PDF](#)

Hello aliens

23iii

Colin White

Features

Astrophysics and sports science: not worlds apart 24

Joe McEntee

 [View article](#)  [PDF](#)

Quantum computing on the verge: correcting errors, developing algorithms and building up the user base 28

Philip Ball

 [View article](#)  [PDF](#)

Reviews

The entangled histories of women in quantum physics 34

Jennifer Carter

 [View article](#)  [PDF](#)

Optimistic, idealistic and naïve 36

Tara Shears

 [View article](#)  [PDF](#)

Builders of the bomb 38

Andrew Robinson

 [View article](#)  [PDF](#)

Condensed matter 39ii

Hamish Johnston, Matin Durrani, Michael Banks and Tushna Commissariat

 [View article](#)  [PDF](#)

A rocky road to success 40



Kate Gardner

 [View article](#)  [PDF](#)

Careers

From an attic laboratory to the heart of galaxies 43



Meghie Rodrigues

 [View article](#)  [PDF](#)

Ask me anything: Kirsty McGhee

44ii

Hamish Johnston



 [View article](#)  [PDF](#)

Lateral Thoughts

Spider webs, jumping worms, cutting onions

48

Michael Banks

 [View article](#)  [PDF](#)

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[Prices and ordering](#)

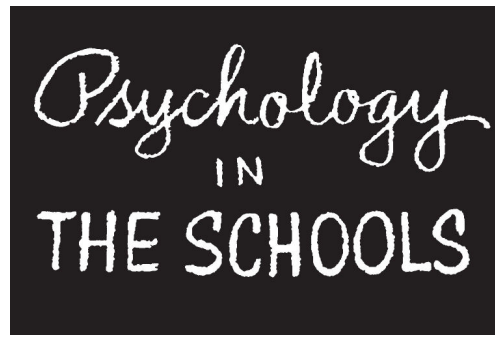
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Contents

Articles

- The Dao of Maslow: A New Direction for Mentorship 295
Edward Hoffman and William C. Compton
- Differentiating Third-Wave Cognitive Mindfulness From Meditative Mindfulness Using a Gurdjieffian Phenomenology of Awareness 315
Daniel D. Haldeman and Glenn Hartelius
- Meaning-Making Predicts Forgiveness as an Indicator of Posttraumatic Growth with a Stronger Effect for Natural Disasters 335
Erinn C. Cameron, Ani Kalayjian, Loren Toussaint, Fiona J. Cunningham, and Kristine M. Jacquin
- The Experience of LGBTQ+ Identity as Spiritual Identity 360
Silvio Machado
- Posttraumatic Growth in Women With a Long-Standing Experience of Involuntary Childlessness in the Czech Republic 383
Gabriela Ďurašková and Brennan Peterson
- A Death and Dying Class Benefits Life and Living: Evidence From a Nonrandomized Controlled Study 405
Natasha Lekes, Brandon C. Martin, Shelby L. Levine, Richard Koestner, and Jennifer A. Hart
- Existential Isolation and Suicide Ideation Among Chinese College Students: A Moderated Mediation Model 427
Chengquan Zhu, Ruiying Su, Fengying Huang, and Yanan Liu
- Felt Body as Myth and Reality: On the Bodily Dimension of Felt Sense 449
Jan Puc
- A Phenomenological Investigation of the Multi-Componential Process of State Curiosity of Senior-Level Professionals 468
Alison Horstmeyer
- Multicultural Competence as a Common Factor in the Process and Outcome of Counseling 496
Geoff J. Bathje, Daniel Pillersdorf, and Hadeel Eddir
- The Contribution of a Music and Arts Rehabilitation Program to the Creative Identity, Well-Being, and Community Integration of People With Mental Health Conditions 518
Maayan Salomon-Gimmon, Hod Orkibi, and Cochavit Elefant
- Therapists' Experiences of Self-Transcendence: An Interpretative Phenomenological Analysis 552
Peter James and Peter Bray

Psychology *in the* Schools



Volume LXIII March 2026 Number 3

RESEARCH ARTICLE

- Jun Li* 571 Preliminary development and validation of the
Shan Shao students' basic psychological needs frustration at
E. Scott Huebner school scale
and Lili Tian
- Salla-Maarit Volanen* 589 The healthy learning mind project: Does a universal
Marianne Holopainen mindfulness programme reduce stress symptoms and
Jari Lahti increase self-kindness among adolescents in schools?
Tero Vahlberg
and Mirka Hintsanen
- Edward B. Mondor* 605 Who's most at risk? Examining suicide characteristics
Ryan J. Lofaro in primary and secondary educators
Katie M. Mercer
Beth L. McGee
Jacquelyn Mesenbrink-Sainz
Spencer E. Riner
Leanne M. Confer
and Jessica S. Schwind
- Justin P. Allen* 618 Manifestation determination reviews and judicial
Rachel J. O'Neill interpretations: A systematic review of federal
Matthew T. Roberts litigation challenging the relationship test
Margaret E. Trinko
Kayla D. Spenard
Faith Fisher
and Ben A. Mason
- Sangin Lee* 631 Two panel delphi study on adolescent suicide
Mo Hyun Yang protective factors in Korea
Dong Hun Lee
and Young-Soon Lee
- Gemma Bermejo-Martínez* 644 Health promoting schools and adolescent health
Javier Zaragoza Casterad behaviours: A comparative study of network
Berta Murillo-Pardo affiliation effects
and José Antonio Julián Clemente

- Christine Kaye Kenney 653 Maximizing success: A multi-pronged process to support individuals with autism spectrum disorder in the higher education context
Melissa A. Sreckovic
and Tia R. Schultz
- Osman Gönültaş 667 Life satisfaction as a mediator of the link between cognitive flexibility and resilience in adolescents
Ece Kara
and Hakan Sarıçam
- Berna Yüner 678 Examining teacher dissent profiles: Implications for teachers, principals, and schools
and Fulya Barış Pekmeci
- Jaclyn Schildkraut 692 Fear, risk, and the drill: Investigating the emotional and cognitive outcomes of participating in lockdown practices among school personnel
Emily A. Greene-Colozzi
and Amanda B. Nickerson
- Saltanat Kaliyeva 709 The prevalence of different types of bullying and their predictors among 8th graders in post-Soviet countries: Cross-national insights from Kazakhstan and Russia. Findings from trends in international mathematics and science study 2019
- Keyv Liu 727 The longitudinal relationship between bullying victimization and adolescents' sleep quality: A moderated mediation model
Dehua Wu
Hong Yang
Bo Zhang
Dan Li
and Huazhan Yin
- Sinae Kim 739 The dual mediating effect of spirituality and cognitive emotion regulation in the relationship between school counselors' developmental level and burnout
and Changmin Keum

RETRACTION

- 752 RETRACTION: Does man has a place in kindergarten leadership? A literature review in China's early child education

CORRECTION

- 753 "The mediating role of psychological flexibility in the relationship between fears of compassion and mindfulness in teachers"

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Variation in Physiology of Thermotolerance in Trees ❖

Revisiting Ramsauer-Townsend Effect ❖

Evolution in Action ❖ De Broglie Waves Centenary – Part 2 ❖

Ranking Events Based on a Random Sample ❖

Surprising Geometric Constructions

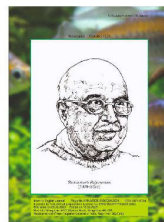
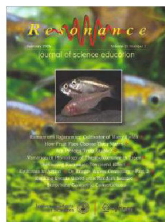
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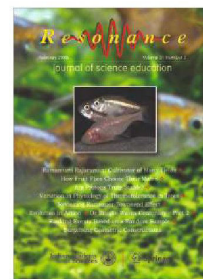
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Volume 31, Issue 2

February 2026, pages 135-313



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pp 135-140 | February 2026 | Editorial

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CURRENT

ISSUE

VOLUME

31 | **ISSUE**

2

FEBRUARY

2026

pp 141-141 | February 2026 | Science Smiles

Science Smiles

Ayan Guha

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

HOME

VOLUMES & ISSUES

CATEGORIES

SPECIAL ISSUES

MASTERCLASS SERIES

FORTHCOMING ARTICLES

CLASSICS

SEARCH

pp 145-157 | February 2026 | General Article

Ramamurti Rajaraman: Cultivator of Many Fields

Rajaram Nityananda and Ram Ramaswamy

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

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B N Singh

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SUBSCRIPTION

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| NEWS

pp 169-178 | February 2026 | General Article

Are Protons Truly Stable?: Proton Stability: A Theoretical and Experimental Overview

Ketan M Patel

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)



**SCIENCE
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PROGRAM**

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Nov 2025

pp 179-200 | February 2026 | General Article

Variation in Physiology of Thermotolerance in Trees: Effects of Climate Change

Aniruddh Sastry

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 201-211 | February 2026 | General Article

Resonant Transmission Through Rectangular Potential Well: Revisiting Ramsauer-Townsend Effect

S Bose, J Mitra and Pintu Mondal

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 213-231 | February 2026 | General Article

Evolution in Action: Interplay of Environment,
Constraint, and Chance

Sudipta Tung

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 233-253 | February 2026 | Series Article

De Broglie Waves Centenary: Revisiting Its Various
Aspects - Part 2

Vishwamittar

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 255-269 | February 2026 | Classroom

Ranking Events Based on a Random Sample

Quyen Tran and Jyotirmoy Sarkar

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 271-286 | February 2026 | Classroom

Eco-friendly Approach to Synthesize and
Characterize Al₂O₃ Nanoparticles for Food
Packaging Materials*

Debanjali Barman Roy, Susanta Das and Sachin Singh Selal

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 287-301 | February 2026 | Classroom

Surprising Geometric Constructions: Ancient Tools and Modern Technology

Segal Ruti, Stupel Moshe and Sigler Avi

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 303-309 | February 2026 | Classics

Role of Symmetries in the Sciences Versus the Arts – A Contrast by R Rajaraman

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 310-311 | February 2026 | Crossword

Intersections 54: A (mostly) Scientific Crossword

Shobhana Narasimhan and Madhavan Mukund

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 312-312 | February 2026 | Crossword

Answer to Intersections 53: A (mostly) Scientific Crossword

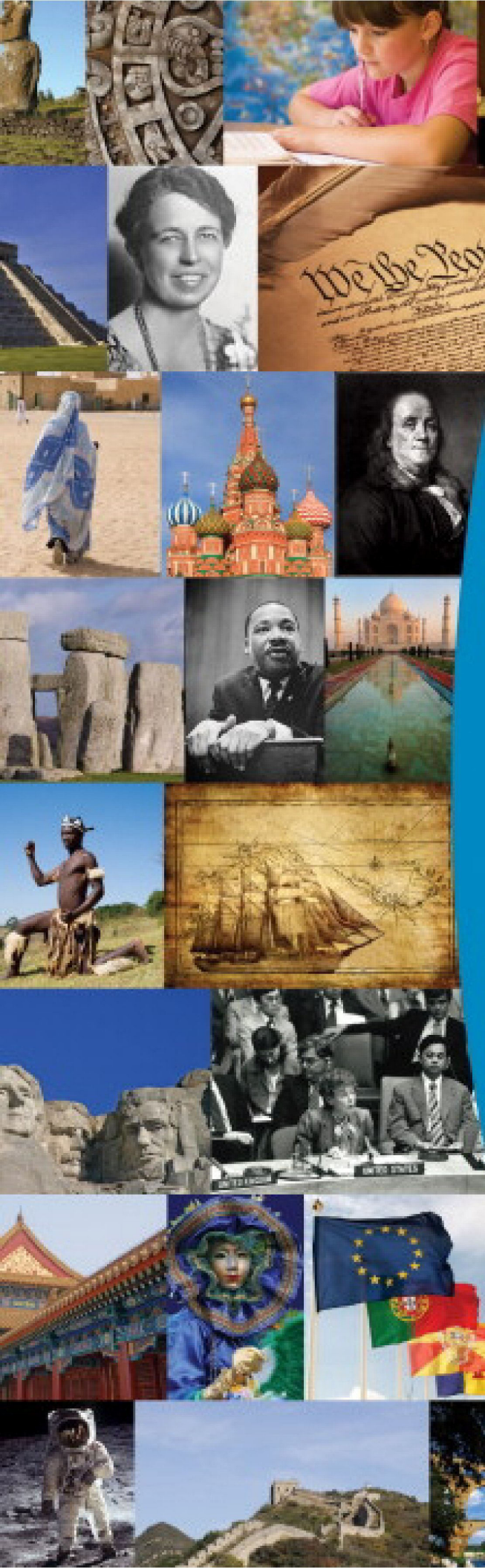
Shobhana Narasimhan and Madhavan Mukund

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)

pp 313-313 | February 2026 | Birds in the Backyard

The Black-Crowned Night Heron

[More Details](#) | [Graphical Abstract](#) | [Fulltext PDF](#)



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 [v](#)

 [v](#)

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Article
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Article
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[<](#) Issue 1 [>](#)

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Editorial

Editorial
Editors' Notes >

Eileen Wertzberger, F. Todd Goodson & Amanda Lickteig
Pages: 1-2
Published online: 17 Feb 2026

27	0	0	75
----	---	---	----



Empirical Research Studies

- Article
'Crossing Over That Bridge' Towards Culturally Relevant and Caring Student-Teacher Relationships >

Allison Roda, Debbie Langone & Kaitlin Smith

Pages: 3-21

Published online: 29 Sep 2025

193	0	1
Views	CrossRef citations	Altmetric



- Article
Seeking Utility: Secondary Mathematics Pre-Service Teachers' Experiences in General Education Courses >

Limin Jao, Martin Ako, Stephanie Beck & Gurpreet Sahmbi

Pages: 22-39

Published online: 28 Jul 2025

216	0	0
Views	CrossRef citations	Altmetric



- Article
Teachers' Translingual Composing: How Preservice Teachers Responded to Invitations to Write Using Multiple Languages >

Lindsey W. Rowe & Katie McGee

Pages: 40-56

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107	0	0
Views	CrossRef citations	Altmetric



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Sara B. Demoiny, Jesús A. Tirado & Kristen E. Duncan

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125	0	0
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