

Publications in learning and teaching in the physical sciences

This paper aims to summarise the range of publications available for dissemination of innovations and pedagogic research in the physical sciences. This list is not exhaustive but gives a flavour of the different types of publications available.

Physical Sciences or Science Education

New Directions in Physical Sciences Teaching

Published by the Higher Education Academy Physical Sciences Centre, this annual publication aims to disseminate the outcomes of new approaches and innovations that may not necessarily be fully developed or evaluated.

<www.heacademy.ac.uk/physsci/publications/newdirections>

International Journal of Science Education

International journal of research in science education with the emphasis on research applicable to practice. Main focus is on primary and secondary education although it includes some HE level papers. Eighteen issues per year.

<www.tandf.co.uk/journals/titles/09500693.asp>

Research in Science and Technological Education

Publishes original research from science education and/or technological education. It also publishes on psychological, sociological and organisational aspects of science education. Mainly primary and secondary level but significant tertiary level papers.

<www.tandf.co.uk/journals/carfax/02635143.html>

Research in Science Education

Publishes science education research, mainly at primary and secondary level but with some tertiary level studies. It is an international journal publishing and promoting scholarly science education research.

<www.springer.com/education/science+education/journal/11165>

Journal of Science Education

Published in South America in English and Spanish. Covers practice as well as research.

<www.colciencias.gov.co/rec/>

Physics Education

Physics Education

Published by the Institute of Physics, this publications covers secondary and lower tertiary level physics teaching. Content is varied and includes, practice, experiments, articles and features.

<www.iop.org/EJ/journal/PhysEd>

Briefing papers are designed to provide a condensed discussion on issues and topics related to teaching and learning in the physical sciences. Each guide focuses on a particular aspect of higher education and is written by an academic experienced in that field.

European Journal of Physics

Aimed at physics teachers at tertiary level. Issues contain laboratory exercises, reports on physics curricula, practice of teaching physics, and cultural and historical aspects of physics

<www.iop.org/EJ/journal/EJP>

Physical Review Special Topics – Physical Education Research

Free electronic journal sponsored by The American Physical Society (APS), the American Association of Physics Teachers (AAPT) and the APS Forum on Education (APS FEd). Covers experimental and theoretical research on the teaching and/or learning of physics at secondary and tertiary level.

<prst-per.aps.org/>

The Physics Teacher

Online and print journal published by the AAPT has papers on physics research, the history and philosophy of physics, curriculum developments, pedagogy and book reviews.

<www.thephysicsteacher.ie>

Chemistry Education

Education in Chemistry

A magazine published by the Royal Society of Chemistry includes articles on practice, features, articles, news and reviews.

<www.rsc.org/education/eic/>

Chemistry Education: Research and Practice

Free online journal published by the Royal Society of Chemistry. Publishes papers on research and practice predominantly at tertiary level.

<www.rsc.org/Education/CERP/>

The Journal of Chemical Education

The journal of the American Chemical Society. Predominantly secondary articles on practice, laboratory experiments and reviews.

<jchemed.chem.wisc.edu/>

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