DESCRIPTION

Writing Scientific Research Articles

The new edition of the popular guide for novice and professional scientists alike, providing effective strategies and step-by-step advice for writing scientific papers for publication

For scientists writing a research article for submission to an international peer-reviewed journal, knowing how to write can be as important as knowing what to write. Writing Scientific Research Articles: Strategy and Steps provides systematic guidance on writing effective scientific papers with the greatest chance for publication. Using clear language, this highly practical guide shows scientists how to apply their analysis and synthesis skills to produce a compelling research article and increase their competence in written communication of science.

The third edition is fully revised to reflect changes in the review process and science journal publication. Incorporating current developments in technology and pedagogical practice, brand-new sections cover mapping and planning manuscripts, choosing results, systematic reviews, structured abstracts, and more. Updated material on referee criteria offers valuable insights on what journal editors and referees want to publish and why. Offering a hands-on approach to developing the academic writing skills of scientists in all disciplines and from all language backgrounds, Writing Scientific Research Articles

- provides a genre-based pedagogy and clear processes for writing each section of a manuscript across the full range of research article formats and funding applications
• presents tested strategies for responding to referee comments and developing discipline-specific language skills for manuscript writing and polishing

• pairs each learning step with updated practical exercises to develop writing and data presentation skills based on expert analysis of well-written papers, including provided example articles

• includes chapters on the difference between review papers and research papers, and on skill development using journal clubs and writing groups

• features a wealth of new information on topics including Open Access publishing, online reviews, and predatory conferences and journals

Designed for use by individuals as a self-study guide or by groups working with an instructor, *Writing Scientific Research Articles: Strategy and Steps* is a must-have guide for early-career researchers with limited writing experience, scientists for whom English is an additional language, upper-level undergraduates and graduate students writing for publication, and STEM and English language professionals involved in teaching manuscript writing and publication skills and mentoring students and colleagues.

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**ABOUT THE AUTHOR**

**Margaret Cargill** is an applied linguist with over 25 years of experience as a research communication educator. Her research focuses on innovative collaborative methods for helping scientists develop high-level skills for communicating their research findings effectively. She has worked extensively in Australia, Europe, and Asia with scientists of many disciplines and language and cultural backgrounds.

**Patrick O'Connor** is a research ecologist, environmental economist, environmental consultant, and science educator. His work over the last 20 years has focused on the use of scientific principles in designing, monitoring, and evaluating environmental programs for governments and statutory authorities in Australia. His research interests and scientific publications span fields of ecosystem service economics, terrestrial ecology, and detection of change in plant and animal communities.

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