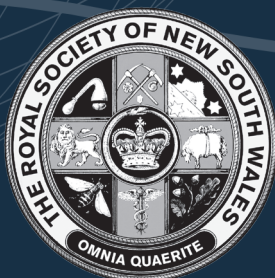


ROYAL
SOCIETY
NEW SOUTH WALES

Bicentennial Bibliography

Citations and links to online
facsimiles of science reports and
Journal papers 1821–2021



Editor
Davina Jackson

INTRODUCTION

In 2021–2022, the Royal Society of New South Wales celebrated 200 years since the colony’s first learned society was founded in 1821, led by the then-Governor, astronomer Sir Thomas Brisbane, as its Honorary President. With our motto, *Omnia quaerite* (Question everything) and mission to ‘enrich lives through knowledge and inquiry’, we remain dedicated to the pursuit and dissemination of socially valuable and culturally relevant intelligence.

In 1821, each of the 10 men who founded our Society was required to ‘furnish the Secretary with an alphabetical catalogue of the books in his private library’ for lending to other members. Some of the early papers read into its Proceedings were compiled as a book titled *Geographical Memoirs of New South Wales*, edited by Barron Field and published in London in 1825. By 1850, the Society’s lectures and proceedings were reported regularly in local newspapers and a short-lived periodical, *The Sydney Magazine for Science and the Arts*.

Our history advanced in 1866, when The Royal Society of New South Wales gained Royal Assent from Queen Victoria, and published its own record of proceedings, titled *Transactions of the Philosophical Society of New South Wales 1862–1865*. This initiated annual publishing of *Transactions* of the RSNSW, before the title was changed in 1876 to *Journal & Proceedings of the Royal Society of New South Wales*.

To highlight the Society’s lineage of publications, a current Councillor, Dr Davina Jackson, has collaborated with our *J.Proc.* Editor, Emeritus Professor Robert Marks, to assemble this *Bicentennial Bibliography* as a digital document that includes links to online facsimiles of several thousand papers that were published by our Society from 1821 to 2021. These citations, which can be keyword-searched, will allow researchers from many disciplines to connect rapidly with the thoughts, discoveries and debates that occupied leading scholars and innovators during the 19th, 20th and early 21st centuries.

Thanks to a collaboration with the Smithsonian Institution’s Biodiversity Heritage Library, this project brings to life many important papers that originally would have been peeled from a hand-operated letterpress, bound in leather ... then shelved and mistakenly forgotten.

DR SUSAN POND AM

President, The Royal Society of New South Wales

PREFACE

When I became Editor of the *Journal & Proceedings of the Royal Society of New South Wales* in 2016, I spent six weeks generating a web page for each issue. I included all papers that had been published in the issue, and linked the details of each paper (author or authors, paper title, journal title, volume, issue, pagination, and year of the journal) to the URL of its online location in the repository of the Biodiversity Heritage Library of the Smithsonian Institution, which had scanned and uploaded all issues from 1867 and earlier.

Each scanned issue in the repository was a PDF file, with no easy way to gain access to individual papers, nor indeed any easy way to see the contents of each issue. The online pages I generated solved these problems. In doing this work, I now know that I was generating the metadata for each paper. This is now being used by the Smithsonian to generate a DOI (digital object identifier or permanent web address) for each paper published by the Society since 1867 and earlier.

But there was still no quick way to search for an author or topic in the collected volumes. It needed a single file listing all papers' metadata: this would allow easy searching. I left the task of creating such a file for later.

Enter Davina Jackson, who has compiled this bibliography of citations hotlinked to all the reports of proceedings and fascimiles of the Society's *Journal* papers that are now available online. This provides researchers from every discipline with unprecedented ease of access to the evolution of scientific scholarship within Australia's earliest and oldest learned societies. Good luck learning with this valuable channel of historical information.

Further historical notes:

This index of articles and papers begins in 1821, 40 years before the Royal Society of New South Wales was granted its letters patent, when the first forerunner of our Society, the Philosophical Society of Australia, was active under the patronage of Governor Sir Thomas Brisbane. At that time there was no dedicated publication for the Society's papers (that would have to wait for over 30 years), but some papers presented to the Society were published as chapters in a book published in London in 1825, edited by a former member of the Society, Barron Field, a lawyer. This book is now in the public domain and online as part of the Gutenberg Project.

After 30 years of little activity, the Philosophical Society of New South Wales began in 1856, under the patronage of a later Governor, Sir William Denison, an engineer. Some papers

published in the Sydney newspapers, especially Henry Parkes' *The Empire*, are now available on Trove. There were two other outlets for papers in the 1850s and early 1860s: a commercial monthly, *The Sydney Magazine of Science and Art*, published papers from the Society and other learned groups for the two years it was in existence. The Philosophical Society of NSW also published the *Transactions of the Philosophical Society* from 1862 to 1865, and this too is online. In 1867 the RSNSW's *Journal* first appeared, and has done so ever since. Perhaps someone will use this *Bicentennial Bibliography* to write a paper analysing how the contents and authors of papers have changed over the past 160 years.

In 1955, the Society's President, Ronald Nyholm, noted in his Presidential **Address** that submissions to the *Journal* highlighted the evolution of the Society:

Broadly speaking, the history of the Society falls into three periods. Before the First World War the Royal Society of New South Wales was the main scientific society in Sydney, at least so far as the physical sciences were concerned. The Society was, for scientific people, an important means of mutual contact, discussion and the Journal received many of their original researches. Between the two world wars there were founded in Sydney many specialist scientific bodies or branches of older ones, such as the Institute of Physics and the Royal Australian Chemical Institute, the meetings of which catered for discussions of specialist subjects. Nevertheless, many of the original papers of these specialists still found their way to our Journal. Thus, the 1940 Journal was one of the largest ever, and in it were 38 research papers. There were 23 chemistry papers, 4 in mathematics and 9 in geology. After the Second World War we enter the third phase—the development in Australia of new specialist journals to cater for the needs of scientists. Examples of these are the Australian Journal of Chemistry and the Australian Journal of Physics. Furthermore, overseas societies publishing specialist journals, e.g. the Chemical Society of London, speeded up the rate of handling of papers and went out of their way to provide air-mail facilities in order to assist folk submitting papers from Australia.

Nyholm included a graph showing the decline in the number of research papers received by the RSNSW *Journal*. In 1952 the *Journal* was the smallest since 1929. He argued that this had at least two effects: first, the mix of disciplines in the *Journal* had become unbalanced, which would eventually affect the publication's exchanges with other institutions; and, second, Society members would lose interest in the *Journal* and perhaps in the Society. He quoted a previous President, Richard Bosworth, who argued for a policy of encouraging researchers to write reports on their research, worded to be intelligible to a novice rather than expert in the field.

What was true 60 years ago still holds today, although the pressure to publish in A-rated journals means that fewer such accessible papers will be submitted. And the fourth phase of

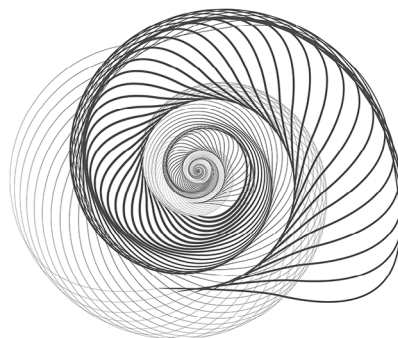
the *Journal*—in the age of the internet—means that it is increasingly an anachronism, at least in its hard-copy form. The other side of today’s technology coin is the ability to make over 160 years of articles accessible to anyone with a browser. The *Journal* still publishes the Clarke and Liversidge lectures and now also a garland of papers from the annual Forum. We also publish short abstracts from recent PhD dissertations. But the flow of first-rate, cutting-edge research papers long ago stopped.

What is to be done? Seventy years ago Ronald Nyholm’s suggestion was not particularly effective. And today it seems even less likely to succeed. As editor now, I encourage review articles and reminiscences, and articles taking an historical approach to the development of science and social phenomena. I also urge readers to consider writing longer reviews of recent books that raise issues of interest, particularly of science policy and history. This fits, I hope, with the Society’s aim to widen its membership from the hard sciences to social sciences and the arts and humanities.

EMERITUS PROFESSOR ROBERT MARKS

Editor, Journal & Proceedings of The Royal Society of New South Wales

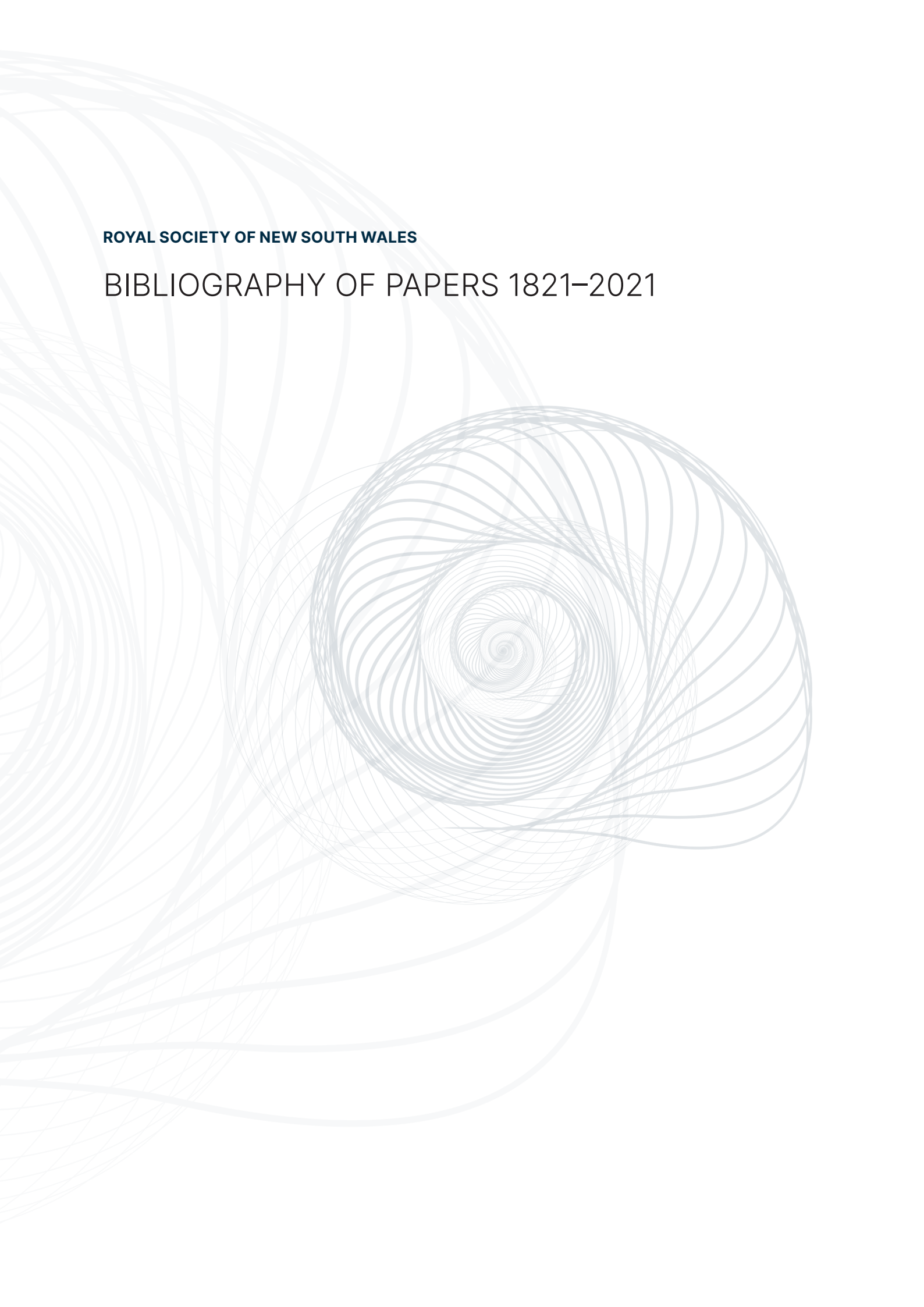
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ROYAL SOCIETY OF NEW SOUTH WALES

BIBLIOGRAPHY OF PAPERS 1821–2021



EDITOR'S NOTE

This author-alphabetical bibliography was assembled in 2022 by an RSNSW Councillor, Dr Davina Jackson, using a chronological listing compiled by the Editor of the *Journal & Proceedings of the RSNSW*, Emeritus Professor Robert Marks.

To commemorate 200 years since the first modern intellectual society was established in the south-west Pacific in 1821, this digital publication offers contemporary science and humanities researchers keyword searches and links to online facsimiles of several thousand papers published in the *Journal & Proceedings* after 1866, and in earlier gazettes and anthologies which recorded presentations to nascent colonial discovery societies.

Most entries are linked to facsimiles in the Smithsonian Institution's Biodiversity Heritage Library, an online repository of facsimiles of environmental science papers. We are indebted to the Smithsonian for recording our history of journal papers and for its recent registration of some DOI (digital object identifier) addresses to allow contemporary researchers to continue to access these records. We anticipate including DOIs for many more of these papers when we update this bibliography with further editions.

Other online references—to various early Australian science records—are the National Library of Australia's Trove portal of vintage newspapers and magazines, and a facsimile of the 1858 *Sydney Magazine of Science and Art*.

PROGENITORS' PAPERS 1821–1866

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These learned societies led multi-disciplinary research in New South Wales before the Royal Society of New South Wales was inaugurated in 1866. [See Joseph Henry Maiden, **A contribution to a history of the Royal Society of New South Wales**, The Honorary Secretaries (eds.), *Journal and Proceedings of the Royal Society of New South Wales for 1918*, 52, 1919, 215–361.]

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First published 2023 in portable digital format (PDF) under
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ISBN 978 0 6458594 3 0 (PDF 1st edn 2023)

A catalogue record for this book is available
from the National Library of Australia
(National Electronic Deposit program).

Typeset in 10/13 pt EB Garamond and Inter.

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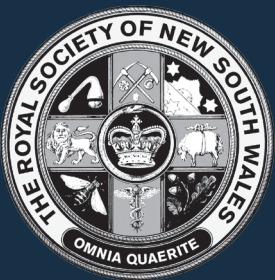
Crows Nest NSW 1585

Australia

Ph +612 9431 8691

info@royalsoc.org.au

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