Key Topics

- Open Access for publications
- Rights Retention policy
- Research Data and Reproducibility
The University of Glasgow strongly encourages the adoption of open research practices. Open research refers to practices that share research early and wide from different stages of the research process, such as methods, protocols, data, software, educational resources, reviews, and publications.

The Research Information Management team are here to help you with all aspects of open research

Contact us at: research-openaccess@glasgow.ac.uk

https://www.gla.ac.uk/myglasgow/openresearch/

Collaboration, Accessibility, Transparency and Reproducibility
Open research has many benefits:
- Visibility
- Transparency & Reproducibility
- Collaboration
- Efficient use of funds
- Credit for ideas
- Public confidence

Open research practices

Open access to publications

Research

Full range of disciplines

Hiring & promotion criteria

Open research lifecycle

Data

Methods & protocols

Software

Educational resources
Key Topics

• Open Access to publications
• Research Publications and Copyright Policy
• Keeping up to date
  • The research culture commons
  • Forthcoming Q&A sessions
What is Open Access?

Open Access is the principle that a research output should be presented in a form that allows anyone with internet access to search electronically within the text, read it and download it without charge.

The copyright holder of an output can make it open access by applying an open access licence to it.

For example, a journal article, book, or dataset with an open access licence can be accessed by anyone, and there will be no (or very few) restrictions on how people can reuse the item.
Publications - Routes to Open Access

Two main routes to Open Access:

Published Version Freely Available also known as 'Gold' (often paid for)
- Output is immediately freely available
- Usually a payment of a fee - Article or Book Processing Charge (APC/BPC)

Accepted Version Freely Available also known as 'Green' (generally no payment)
- Deposit (usually accepted final version) in online repository
- Often an embargo period to making this visible

University direction - go Green wherever possible

Green route supported by Research Publications and Copyright Policy
University Policies

Our policies:
https://www.gla.ac.uk/research/strategy/ourpolicies/

Code of Good Practice in Research:
https://www.gla.ac.uk/media/media_490311_en.pdf

Postgraduate Research Code of Practice:
http://www.gla.ac.uk/services/postgraduateresearch/pgrcodeofpractice/

Research Publications and Copyright Policy:
https://www.gla.ac.uk/research/strategy/ourpolicies/publications-policy
Articles and conference proceedings

Must have been deposited in a repository as soon after the point of acceptance as possible, and no later than three months after this date.

Author Accepted Manuscript (AAM) – final agreed text before publisher adds logos and mark-up.

The author is responsible for ensuring that this policy is followed.

There are limited exceptions.

REF Requirements

REF accepts embargo periods:

- 12 months for Science, Technology and Medicine
- 24 months for Arts and Social Sciences

If AAM supplied library can release it after any publisher embargo.

Changes will be advertised
Funder Requirements

https://www.gla.ac.uk/myglasgow/openresearch/openaccess/fundsforopenaccess/

https://www.ukri.org/publications/ukri-open-access-policy/
Publisher Arrangements


University of Glasgow - MyGlasgow - Open Research – Open Access - Publisher Arrangements

https://www.gla.ac.uk/myglasgow/openresearch/openaccess/glasgowopenjournals/
RESEARCH PUBLICATIONS & COPYRIGHT POLICY

The University is committed to ensuring wide access to the scholarly outputs from its research activities, in acknowledgement that making research outputs more readily available increases the potential for community engagement, citation, reuse and impact. Certain major research funders have introduced open access policies which require grant-holders to make their research outputs open access upon publication and to be openly licenced under a Creative Commons attribution licence (CC BY).

The University therefore encourages, and in some cases requires, researchers to provide open access to published research, to meet its ambitions for open research, to enable compliance with research funders who mandate open access, and to ensure University policies align with the requirements of future research assessment exercises.

This Research Publications and Copyright Policy enables the University and its researchers to disseminate research results as widely as possible, supports and encourages good open access practices with respect to publications arising from University research activity and assists researchers to comply with funder open access requirements.

https://www.gla.ac.uk/research/strategy/ourpolicies/publications-policy/
research-openaccess@glasgow.ac.uk
About the policy

• The University is committed to ensuring wide access to research outputs.
• The new Research Publications and Copyright Policy applies to papers submitted from 1st September 2023
• To enable creators of research outputs in making accepted versions freely available.

Rights Retention Statement:
For the purpose of open access, the author(s) has applied a Creative Commons Attribution (CC BY) licence to any Author Accepted Manuscript version arising from this submission.
What do researchers need to do?

At submission, include the Rights Retention Statement in the manuscript (and in a covering letter if required)

- Discuss the Rights Retention Statement with any co-authors
- Include a Data Statement in your manuscript
- You can check policy in advance with the publisher, if you wish.

While the article is in review, read the publisher contract/licence to publish and any other documentation carefully to check it is compatible with the Research Publications and Copyright Policy

If you need any assistance contact research-openaccess@glasgow.ac.uk

Upon acceptance, notify research-openaccess@glasgow.ac.uk

Your work will be freely available for anyone to read.

https://www.gla.ac.uk/myglasgow/openresearch/openaccess/openaccessprocessatglasgow/
What does the library do?

- Check funder requirements
- Check the publisher copyright policy
- Advise on open access options case by case
- Arrange payment from funder sources if appropriate
- Deposit manuscript and release after embargo
Pacific barkcloth under the microscope - characterisation of condition, decoration and structure


**Funder and Project Information**

<table>
<thead>
<tr>
<th>Project Code</th>
<th>Award No</th>
<th>Project Name</th>
<th>Principal Investigator</th>
<th>Funder's Name</th>
<th>Funder Ref</th>
<th>Lead Dept</th>
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<td>66272</td>
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<td>Situating Pacific barkcloth production in time and place</td>
<td>Frances Lennard</td>
<td>Arts &amp; Humanities Research Council (AHRC)</td>
<td>AH/Moo886X/1CCA - HISTORY OF ART</td>
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</table>
SUP is accepting proposals for monographs and edited collections in any subject by researchers at member institutions.

- Books will be **fully open access with CC-BY licences**
- Option to buy **print copies**
- Rigorous peer review process
- Full publishing service
- Responding to **UKRI** and **REF** policy changes

[Find Out More](https://sup.ac.uk)
The OAPEN Open Access Books Toolkit covers specific topics related to open access books. Each article offers a quick and brief introduction to a particular aspect of open access book publishing. The toolkit also serves as a signposting tool: articles include a list of sources referenced, further reading, and information on how to contribute to the toolkit.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conceptualization</td>
<td>Ideas; formulation or evolution of overarching research goals and aims.</td>
</tr>
<tr>
<td>Methodology</td>
<td>Development or design of methodology; creation of models.</td>
</tr>
<tr>
<td>Software</td>
<td>Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components.</td>
</tr>
<tr>
<td>Validation</td>
<td>Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.</td>
</tr>
<tr>
<td>Formal Analysis</td>
<td>Application of statistical, mathematical, computational, or other formal techniques to analyse or synthesize study data.</td>
</tr>
<tr>
<td>Investigation</td>
<td>Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.</td>
</tr>
<tr>
<td>Resources</td>
<td>Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.</td>
</tr>
<tr>
<td>Data Curation</td>
<td>Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later re-use.</td>
</tr>
<tr>
<td>Writing – Original Draft</td>
<td>Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).</td>
</tr>
<tr>
<td>Writing – Review &amp; Editing</td>
<td>Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or post-publication stages.</td>
</tr>
<tr>
<td>Visualization</td>
<td>Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.</td>
</tr>
<tr>
<td>Supervision</td>
<td>Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.</td>
</tr>
<tr>
<td>Project Administration</td>
<td>Management and coordination responsibility for the research activity planning and execution.</td>
</tr>
<tr>
<td>Funding Acquisition</td>
<td>Acquisition of the financial support for the project leading to this publication.</td>
</tr>
</tbody>
</table>

https://credit.niso.org/
https://rollercoaster.shinyapps.io/tenzing/
Questions?
The Research Data Management service offers support and guidance on:

- Data management planning
- Data licensing
- Handling and sharing sensitive data
- Storing, organising and documenting data
- Depositing data/code/materials in repositories

Research Data Management webpages

Data Availability Statements - News Item
Research data is any information (digital or physical) required to underpin research.
What are the basics?

- Write a data management plan
- Implement a good file naming strategy
- Create a logical folder structure
- Keep good documentation (metadata)
- Curate datasets which underpin publications
- Deposit datasets in repositories
- Use data citations

- Encourage your peers to do the same!
A data management plan is a short document which sets out how data arising from a project will be handled.

- Description of the data to be collected / created
- Standards / methodologies for data collection and management
- Ethics and Intellectual Property concerns or restrictions
- Plans for data sharing and access *(NB sharing ≠ open access)*
- Strategy for long-term preservation

DMPonline [https://dmponline.gla.ac.uk/](https://dmponline.gla.ac.uk/)
DMPs, Ethics and GDPR

1. Use the DMP to plan **what you want to do** with the data (while satisfying University and funder requirements).

2. Complete the appropriate Data Protection paperwork you establish **what you are legally allowed to do** with the data

3. Seek **ethical approval** for all your planned uses of the data

10.36399/gla.pubs.202746
Files and Folder Organisation

Raw data

Working copy

Processed data
Version 1

Processed data
Version 2

Processed data
Subset for figure

Readme file
1. Where has data come from?
2. How was data acquired?
3. What software is needed to open?
4. What is the file-naming convention?
5. Anything else useful? eg sample prep

Files and Folder Organisation

Processed data
Version 1

Processed data
Version 2

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Readme file
1. What is data?
2. How was data acquired?
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4. What is the file-naming convention?
5. Anything else useful? eg sample prep

Files and Folder Organisation

Raw data

Working copy

Processed data
Version 1

Processed data
Version 2

Processed data
Subset for figure

Readme file
1. Where has data come from?
2. How has data been processed?
3. What software is needed to open?
4. What is the file-naming convention?
5. Anything else useful?
What information might **YOU** need to make sense of this data in 5 years’ time?

- Details of sample preparation
- Where were samples collected?
- Experimental protocol followed
- Machine settings
- Inclusion criteria
- What do the field-names mean?
- Details of software needed
- List of abbreviations used

The possibilities are endless and specific to your research.
## Storing live data

<table>
<thead>
<tr>
<th>Feature</th>
<th>NextCloud</th>
<th>MS OneDrive for Business</th>
<th>Shared network drive</th>
<th>IT Services Guide</th>
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</thead>
<tbody>
<tr>
<td>Data needs to be restricted to a small group</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Share with colleagues at the University of Glasgow</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Share with collaborators at another university</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Share with collaborators without university logins</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

**NextCloud:** [https://nextcloud.gla.ac.uk](https://nextcloud.gla.ac.uk)
**MS OneDrive for Business:** [https://office365.gla.ac.uk](https://office365.gla.ac.uk)
**Shared network drive:** (usually J:)
**IT Services Guide:** [https://www.gla.ac.uk/media/media_477731_en.pdf](https://www.gla.ac.uk/media/media_477731_en.pdf)
Curate your data

When you publish your research, draw the following together...

• Relevant documentation
• Data which underpins each figure*
• A Readme file which (at least) lists the files and explains the file types, folder structure and file naming convention

Once this packaged dataset is ready, deposit it in a suitable repository and cite the dataset in your publication using a DOI.

* The actual data included (eg raw vs processed) will depend on your research.
Long-term data storage
Upper limit to the transverse to longitudinal motion coupling of a waveguide mirror

Upper limit to the transverse to longitudinal motion coupling of a waveguide mirror. [Data Collection]

Original publication URL: http://dx.doi.org/10.1088/0264-9381/32/17/175005
Datacite DOI: 10.5525/gla.researchdata.221

Collection description

Waveguide mirrors (WGMs) possess nano-structured surfaces which can potentially provide a significant reduction in thermal noise over conventional dielectric mirrors. To avoid introducing additional phase noise from the motion of the mirror transverse to the reflected light, however, they must possess a mechanism to suppress the phase effects associated with the incident light translating across the nano-structured surface. It has been shown that with carefully chosen parameters this additional phase noise can be suppressed. We present an experimental measurement of the coupling of transverse to longitudinal displacements in such a WGM designed for 1064 nm light. We place an upper limit on the level of measured transverse to longitudinal coupling of one part in seventeen thousand with 95% confidence, representing a significant improvement over a previously measured grating mirror.

<table>
<thead>
<tr>
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<td>Retention date:</td>
<td>18 September 2025</td>
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<td>Funder’s Name:</td>
<td>Science &amp; Technologies Facilities Council (STFC)</td>
</tr>
<tr>
<td>URL:</td>
<td><a href="http://researchdata.gla.ac.uk/id/eprint/221">http://researchdata.gla.ac.uk/id/eprint/221</a></td>
</tr>
</tbody>
</table>

Available Files

- centred.csv
- offset-minus.csv
- offset-plus.csv
- README.txt

Additional details
Ocean acidification and temperature increase impact mussel shell shape and thickness: problematic for protection?

Susan C. Fitzer\(^1\), Liberty Vittert\(^2\), Adrian Bowman\(^2\), Nicholas A. Kamenos\(^1\), Vernon R. Phoenix\(^1\) & Maggie Cusack\(^1\)

\(^1\)School of Geographical and Earth Sciences, University of Glasgow, Glasgow, G12 8QQ, UK
\(^2\)School of Mathematics and Statistics, University of Glasgow, Glasgow, G12 8QQ, UK

Keywords
Biomineralization, CO\(_2\), mussels, ocean acidification, shell shape, shell thickness, temperature.

Abstract
Ocean acidification threatens organisms that produce calcium carbonate shells by potentially generating an under-saturated carbonate environment. Resultant reduced calcification and growth, and subsequent dissolution of exoskeletons, would compromise the ability of the marine animal to respond to changing environmental conditions. We examine how high salinity and marine pernix (Perna viridis) influence shell shape and chemistry of the mussel Mytilus edulis. Shell thickness and shell height were measured and compared to pCO\(_2\) levels in flume experiments. Shell thickness was observed on shell edge and in the shell interior. Shells were grown at salinities of 25 and 35 psu compared to present day conditions (McFarland et al. 2005). Significant differences were observed in shell thickness and shell edge thickness. In this study, the mussels were grown at salinities of 25 and 35 psu, and achieved similar results to those of McFarland et al. (2005). In addition to the results of McFarland et al. (2005), these results suggest that ocean acidification may have significant implications for the future survival of marine organisms.

Data accessibility
Data available from the Dryad Digital Repository: http://dx.doi.org/10.5061/dryad.74ms0.

References
For Staff
ARDCRB Introduction to Research Data Management (moodle)
ARUDMP Writing a data management plan with DMPonline (webinar)

For Students – book on MyCampus
RSDC 6037 Introduction to Research Data Management
RSDC 6030 Writing a data management plan with DMPonline

Bespoke Training
We can provide tailored training on any aspect of RDM, for any staff or student group

https://www.gla.ac.uk/myglasgow/openresearch/training/
Contact us

research-openaccess@glasgow.ac.uk

We can provide assistance and advice at all stages of a publication.

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