

Advances in Resources Research Instructions for Authors

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1. Aims and Scope

Advances in Resources Research (ARR) is a peer-reviewed open-access journal published by the Resources Economics Research Board. The articles in *ARR* present new research findings and should not have been published in other journals, except for the authors' patents and preprints.

ARR is published quarterly as an electronic journal. The published articles are made available on J-STAGE (Japanese Science Technology Information Aggregator, Electronic) and can be accessed freely by anyone on the Internet due to open access.

J-STAGE maintains a comprehensive digital library, including *ARR*, with a dark archive hosted by Portico. Therefore, if *ARR* is no longer accessible on J-STAGE, it can still be accessed and utilized through Portico.

ARR encompasses articles in the field of natural resources (energy resources, food resources, water resources) and related disciplines, including the following:

- Conventional oil and natural gas, coal
- Unconventional oil and natural gas
- New energy
- Crop science
- Soil science
- Hydrology and water resources
- Interdisciplinary research

- Environmental Sustainability
- Renewable Energy Technologies
- Climate Change Mitigation
- Biodiversity Conservation
- Sustainable Agriculture

2. Manuscript Types

The manuscript types for *ARR* are categorized as follows.

(1) Original Paper

An original academic study presenting new facts or valuable conclusions.

(2) Review Paper

A newly written report on a specific subject, concentrating on previously published papers, or a discussion of the authors' findings, including their opinions.

3. Ethics Policies

Authors

Submitted manuscripts must include authors' substantial contributions to scientific and technological advances and developments in natural resources and related fields. Additionally, the manuscripts should not have apparent commercial intent. Authors must adhere to all conditions specified in the submission requirements. The corresponding author, responsible for peer review responses and proofreading until publication, is designated among the authors.

Authors are not allowed to fragment data intended for a single paper into multiple studies. Relevant studies should be consolidated into a single manuscript. In cases where a series of results is submitted as a set of articles, each article should have an independent title, with an overarching title unifying the entire series.

The content of the articles should present new results and should not have been published elsewhere (excluding authors' patents and preprints). Double submissions by authors are prohibited. In the submitted manuscript, sources must be specified for referencing relevant past papers, and a comprehensive explanation of the novelty of such papers must be included. Care should be taken to avoid copyright infringement of related articles.

Criticism of existing papers is permissible only for academic advocacy, avoiding personal attacks on the authors. Submissions must not contain fabrication or falsification of data, and ideas, methods, or results from other papers should not be plagiarized.

Sufficient information must be provided in the submitted manuscript to enable third parties to reproduce, verify, and evaluate the research. Document images should accurately represent the original data and must not be altered by moving, deleting, adding, or highlighting specific areas.

While digital processing of images is allowed, the *ARR* editorial committee reserves the right, if necessary, to request submission of the original image before processing.

Reviewers

Reviewers are expected to decline a review request promptly if: (1) there is a potential conflict of interest; (2) the manuscript being reviewed falls outside the reviewer's expertise; (3) it seems unfeasible to complete the review within the specified deadline.

Reviewers should conduct their assessments objectively and logically, focusing on the quality and value of the manuscript, while respecting the intellectual independence of the authors.

Reviewers are obligated to keep the review request confidential and must not disclose it to others. Additionally, refereed manuscripts are considered confidential and should not be shared or consulted by third parties. Reviewers are also prohibited from using unpublished material in peer-reviewed manuscripts.

Reviewers should provide clear and logical descriptions of their peer review opinions. A peer review opinion must: (1) refrain from personal criticism of the author; (2) avoid asserting the reviewer's subjective opinions; and (3) not demand modifications solely based on differences in views with the authors.

Editorial Committee

The *ARR* editorial committee operates independently of the Resources Economics Research Board, and its composition and activities must adhere to the following requirements:

The *ARR* editorial committee is responsible for ensuring the fair management of the peer review process.

The committee selects reviewers based on the type and requirements of the submitted manuscript, conducting an anonymous review. In doing so, the *ARR* editorial committee must impartially choose the most suitable reviewers, considering their field of expertise. Reviewers should not exhibit favorable or negative personal biases toward the authors or the subject of the submission.

The *ARR* editorial committee is prohibited from disclosing any information related to the peer review process, the submitted manuscript, or the reviewers' details to third parties.

In determining the suitability of a manuscript for submission, the *ARR* editorial committee must not consider factors such as the authors' race, religion, ethnicity, sex, age, nationality, occupation, affiliation, or political beliefs.

4. Peer Review Process

Manuscripts submitted to *ARR* undergo peer review based on the following guidelines.

The objective of peer review is to assess objectively whether a submitted manuscript makes a meaningful contribution to research in natural resources (energy resources, food resources, and water resources) and related fields, and whether it is suitable for publication in *ARR*. Peer review also aims to provide the editorial committee with information to make informed decisions on publication. Additionally, the peer review process is designed to promote the enhancement of submitted manuscripts rather than to suppress diverse opinions and enforce a uniform narrative.

Confirmation of Manuscript Requirements

The *ARR* editorial committee will verify whether the submitted manuscript complies with the specified requirements. If a contribution manuscript meets the prescribed criteria and is accepted, the corresponding author will be notified of the acceptance.

Peer Review System

Peer review shall be carried out anonymously.

As a general rule, the submitted manuscript should undergo review by one chief reviewer and one sub-reviewer.

Peer Review Procedure

- (1) The editorial committee shall appoint reviewers.
- (2) Reviewers are required to submit their review results and comments to the editorial committee within two months of receiving the review manuscript.
- (3) The reviewers evaluate the manuscript in four stages:
 - A. Fit for publication
 - B. Fit for publication after correction
 - C. Requires correction and re-examination
 - D. Not fit for publication
- (4) In principle, the editorial committee adheres to the reviewers' evaluations when there is agreement. In cases of disagreement, the chairman of the editor-in-chief makes the final decision after consulting with the editorial committee.
- (5) The authors will be informed of the review results within two weeks.

Reviewers

Fairness in the selection of reviewers must be maintained. Consequently, individuals affiliated with the same institution as the authors (including co-authors), those mentioned in the acknowledgment, and individuals with direct business interests with the authors are ineligible to serve as reviewers.

The qualifications for reviewers are, in principle: (a) holding a doctoral degree, (b) holding a position as a professor or associate professor, and (c) having authored three or more publications as the first or equivalent author in academic journals related to natural resources and associated fields. Meeting multiple conditions is encouraged.

Peer Review Criteria

Contributed manuscripts are evaluated based on the following publication standards to determine their suitability for publication.

(1) Significance and Value

- Novelty: Introducing new knowledge
- Creativity: Opening up new possibilities for development
- Importance: Possessing significant knowledge
- Usefulness: Making scientific or technical contributions

(2) Innovation and Methodology

- Innovation: Demonstrating original and inventive approaches
- Methodology: Employing appropriate research methods to achieve objectives
- Exploration: Pioneering new avenues of investigation
- Adaptability: Flexibly applying methods to diverse research challenges

(3) Rigorous Analysis

- Rigorous Analysis: Conducting thorough and accurate analysis of research results
- Critical Examination: Scrutinizing findings with a discerning and critical perspective
- Statistical Precision: Ensuring precision in statistical methodologies
- Data Integrity: Maintaining the integrity and reliability of research data

(4) Structure and Content

- Clearly state the research purpose
- Employ research methods aligned with research objectives
- Demonstrate appropriate use of research methods
- Provide sufficient and relevant consideration based on research results
- Ensure the overall structure and text are logical, coherent, and consistent
- Properly cite relevant documents
- Confirm the absence of ethical issues
- Avoid double posting

Method and Deadline for Submitting Amendments

When submitting a revised manuscript, authors are required to clearly outline the changes made in response to peer review feedback. The revised manuscript, along with a written response in any

format, should be submitted to the editorial committee. Authors may also include a rebuttal to peer review comments.

As a general rule, the period for submitting a revised manuscript should not exceed two months. If this deadline is not met, the author must provide a statement of reasons to the editorial committee. Upon acknowledging the authors' reasons, the editorial committee will establish a new deadline.

Re-review System and Deadline

In instances of conditional publication, the editorial committee assesses whether the specified conditions have been satisfactorily met. Revised manuscripts are subsequently subjected to a re-review process, considering the outcomes of the initial reviews.

The deadline for re-review is one month for two reviewers and two weeks for a single reviewer.

Notification

If a decision is made to approve publication, the editorial committee will reconfirm the examination procedures and formal requirements before notifying the authors. In the case of a decision to disallow publication, the editorial committee will promptly inform the authors, ensuring there are no deficiencies in the examination procedure.

Authors' Objection

The corresponding author can raise objections with the editorial committee within two weeks of receiving the notice regarding the review results or the decision to publish. The editorial committee is obligated to address the objection within two weeks of receiving it and respond to the corresponding author.

5. Copyright, Open Access, and Fees

The copyright of articles published in *ARR* belongs to the authors, granting them publishing rights without restrictions.

ARR operates as a fully Open Access journal and employs Creative Commons (CC) licenses, enabling users to utilize, reuse, and build upon the published material without incurring charges or seeking prior permission from the publisher or authors.

Published articles fall under the Creative Commons Attribution (CC BY) 4.0 International license. The CC BY license permits others to distribute, remix, tweak, and build upon the work, including commercial use, as long as proper credit is given to the authors.

ARR applies an Article Processing Charge (APC) of US\$500 for each accepted article. However, invitation articles are exempt from the APC, and no additional charges are incurred beyond the APC.

6. Manuscript Submission

- All manuscripts must be submitted through the journal's online submission system, accessible at the "Submit Your Paper" link on the right side of the journal homepage.

- Include the article type, title, authors' names and affiliations, and the contact email address of one author (corresponding author) corresponding with the editorial committee on the first page of the manuscript.

- Attach a Word file that combines the abstract, keywords, text, references, and figures to the attachment file.

- Ensure the attached file name does not exceed 25 single-byte alphanumeric characters.

- Notification of acceptance or rejection will be sent via a reply email from the *ARR* editorial committee.

- The editorial committee will communicate the results of the review and comments to the corresponding author within two months of receiving the review manuscript.

7. Manuscript Preparation

Submission to *ARR* adheres to the following guidelines.

Manuscript on Page One

(1) Type of Manuscript: Indicate the type of manuscript (Original Paper or Review Paper).

(2) Title: The title should be concise, with a clear indication of the subject.

(3) Authors' Names: Provide the full names of the authors without omission. Number the authors on the right shoulder as "1), 2), ..."

(4) Author's Affiliation: Include the name of the institution to which the author belongs. Specify the organization and department names. Precede the affiliation with the corresponding author's number.

(5) Corresponding Author's Email: Note the corresponding author's email address in the footnote on page 1.

(6) Special Issue (if applicable): In the case of a special issue, include a description of the special theme.

Abstract

The abstract should provide a concise overview of the study, covering background, objectives, methods, results, conclusions, etc., and should be composed of approximately 150-350 words.

Keywords

Keywords serve the purpose of facilitating document retrieval and are selected based on the following criteria, attached after the abstract.

- (1) Word Limit: Keywords should not exceed 5 words and must represent nouns, such as names of substances or matters.
- (2) Singular Form: Keywords are primarily expressed in singular nouns.
- (3) Author's Selection: Authors are responsible for selecting the keywords.
- (4) Editorial Committee's Discretion: Keywords may be subject to change at the discretion of the editorial committee.

Text

The text should adhere to the following guidelines.

(1) The form is not strictly limited, but it should clarify the purpose, method, and conclusion. For instance, the text may include sections such as introduction, method, results and discussion, conclusion, etc. Redundant explanations of common-sense matters and textbook contents should be avoided.

(2) Chapters, clauses, and sections should be organized using a point system. Chapters may have subtitles, with the chapter number as "1., 2., ...", clause numbers as "1.1., 1.2., ...", and section numbers as "1.1.1., 1.1.2., ...". Further subdivisions like (1), (2) ... should be avoided.

(3) Begin a new line with a separation of three characters.

(4) Footnotes, if necessary, should be indicated on the right shoulder of the text paragraph as footnote 1), summarized at the bottom of the same page, and clearly distinguished from the main text.

(5) Each formula should be consecutively numbered in parentheses, for example.

$$A + B = C \quad (1)$$

(6) Figures and tables must be numbered and cited in the text. For example, refer to "Figure 1" and "Table 1."

(7) Titles and descriptions of figures should be placed at the bottom, while table titles should be at the top, and table descriptions at the bottom.

(8) Use Arabic numerals for quantities and ordinal numbers.

(9) In principle, employ SI units for measurements. If non-SI units are used, specify the conversion method.

References

As a general rule, personal communications and unpublished materials are not allowed as "references."

(1) References should be numbered consecutively in the order they appear, such as [1], [1,2], or [1-3], on the right-hand side of the text where they are cited. At the end of the text, references are listed together.

(2) In principle, references should be written in English. The author's name should be presented with the surname first, followed by the initials of the first name. For co-authors of three or more persons, "et al." should be used. In the case of a journal article, the author's name, article title, the name of the journal, the year, volume number (issue), and page range should be listed in this order. For a book, provide the author's name, book title, and the name of the publisher, and include the cited pages like "3-5." In the case of electronic documents, include the website author's name, publication year, title, URL, access date, etc. Refer to the following examples for formatting references.

Examples:

[1] Yanagi M. Analysis of the path and mode of tourism resources innovation in Japan. *Geographical Research Bulletin*, 2022, 1, 2-13.

[2] Cao C, Lin M. Present situation and development trend of water drive development technology in the oil field: Take China as an example. *Advances in Resources Research*, 2022, 2(4), 67-76.

[3] Hou X, Zhang J, Li C, et al. Analysis of geological characteristics and resources potential of the Middle-Upper Proterozoic shale oil and gas: Taking North Hebei Depression in the Yanshan area as an example. *Advances in Resources Research*, 2022, 2(2), 41-54.

[4] Ito H, Osawa S. Momentum and effect of local specialty development in regional development: A case study of Samegawa village, Fukushima Prefecture. *Journal of Rural Planning Association*, 2009, Special Issue, 263-268.

[5] Li Y. Application of asynchronous injection-production water injection in Dongshengbao Buried Hill. *Petroleum Geology and Engineering*, 2011, 25 (Supplement), 16-17.

[6] Guo X. The Development history of world offshore oil. *Petroleum Industry Press*, 2012, 33-35.

[7] RezaeiDoust A, Puntervold T, Austad T. A discussion of the low salinity EOR potential for a North Sea sandstone field. *SPE-134459-MS*, 2010.

[8] Ling G. Climate warming leads to "winter wheat moving northward". *Beijing Daily*, 2014-04-16, 17.

[9] Wang Z, Cao G, Bai Y, et al. Present situation and the prospect of improving oil recovery of low permeability reservoirs in China. *Special Oil & Gas Reservoirs*, Early Publication, August 12, 2022.

[10] Wang X, Yuan G, Han J, et al. Effect of water injection speed on huff and puff effect of water injection. Proceedings of the Chinese Congress of Theoretical and Applied Mechanics, 628-634, Hangzhou, 2019.

[11] Sun S. Adaptability evaluation and scheme design of low salinity water flooding in Wuliwan Chang 6 reservoir. China University of Petroleum (Beijing), 2019.

[12] Liu X. The economic evaluation of tight oil development under uncertainty: Example of development in China. JXIV, 2022-03-28. DOI: 10.51094/jxiv.7.

[13] Shale Gas Reporter. Range Resources sets record lateral length in Pa.
<http://shalegasreporter.com/news/range-resources-sets-record-lateral-length-pa/60921.html>
(Accessed 2020/11/16).

Appendix

The appendix is utilized when the content exceeds the scope covered by footnotes and should be included after the main text. If there are appendices, they should be referenced in the text. Figures and tables within the appendix should be numbered independently.

Manuscript Length

As a general guideline, the length of manuscripts should not exceed 25 pages for the Original Paper and 30 pages for the Review Paper.

8. Accepted Manuscripts

Accepted manuscripts undergo editing by the *ARR* production team before publication. *ARR* is continuously published online. All communication related to accepted manuscripts should be directed to the corresponding author.

Proofs

Proofs of manuscripts are sent via email to the corresponding author, who has a 72-hour window to review and email them back.

Author proofreading is conducted once during the initial or second round. As a general rule, corrections to the content during proofreading are not allowed.

9. Preprints

ARR encourages authors to submit their manuscripts to community-recognized preprint servers, including the preprint server operated by Japanese Science Technology, either before or concurrently with the official submission.

Journal website: <https://www.jstage.jst.go.jp/browse/arr/-char/en>

When submitting a preprinted paper, explicitly state that the manuscript is a preprint. After acceptance, it is recommended to display the URL of the corresponding *ARR* article on the preprinted paper.

10. Contact

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E-mail: [arr.journal\(at\)rerbarr.com](mailto:arr.journal(at)rerbarr.com)