Evidence-Based Journal Submission Report

KoiPaper | Revised edition | Generated 24 October 2026 | Report 20261024-007

Purpose. This report presents an evidence-led shortlist. Journal records and related-paper records are placed in appendices so the main decision remains easy to scan.

1 Executive recommendation

The manuscript is best aligned with journals that have recent, verifiable publication activity around thermogravimetric analysis, polymer thermal decomposition and experimental test-factor optimization. The shortlist below contains five candidates. The order reflects the strength and continuity of related publication evidence together with the journal identity and scope signals available in the evidence set.

1.1 Decision summary

Order	Journal	Evidence basis	Recent records
1	Foods	thermogravimetric analysis + polypropylene	1
2	Discover Polymers	thermogravimetric analysis + test factors	1
3	Jurnal Rekayasa Proses	thermogravimetric analysis + test factors	1
4	Scientific Reports	thermogravimetric analysis + test factors	3
5	Energies	thermogravimetric analysis + test factors	6

1.2 Recommended order

(1) Foods

MDPI AG, Switzerland. The available evidence includes 1 verified related publication record(s), classified as thermogravimetric analysis + polypropylene. Review the detailed journal record in Appendix A and the supporting publications in Appendix B.

(2) Discover Polymers

Springer, Singapore. The available evidence includes 1 verified related publication record(s), classified as thermogravimetric analysis + test factors. Review the detailed journal record in Appendix A and the supporting publications in Appendix B.

(3) Jurnal Rekayasa Proses

Universitas Gadjah Mada, Indonesia. The available evidence includes 1 verified related publication record(s), classified as thermogravimetric analysis + test factors. Review the detailed journal record in Appendix A and the supporting publications in Appendix B.

(4) Scientific Reports

Nature Portfolio, United Kingdom. The available evidence includes 3 verified related publication record(s), classified as thermogravimetric analysis + test factors. Review the detailed journal record in Appendix A and the supporting publications in Appendix B.

(5) Energies

MDPI AG, Switzerland. The available evidence includes 6 verified related publication record(s), classified as thermogravimetric analysis + test factors. Review the detailed journal record in Appendix A and the supporting publications in Appendix B.

2 Evidence-led selection process

2.1 Manuscript research profile

Field	Extracted value
Title	Optimization of Experimental Conditions for Determining the Thermal Decomposition Temperature of Weather-Resistant PP Using Thermogravimetric Analysis
Research question	How should thermogravimetric test conditions be optimized to measure thermal decomposition temperature of weather-resistant polypropylene?
Research object	weather-resistant polypropylene
Instrument	thermogravimetric analysis
Methods and test factors	single-factor experiments; orthogonal experiments; heating rate; sample mass; gas flow rate

2.2 Search and verification

The related-paper search used public Crossref and OpenAlex metadata for the recent three-year window. A record was retained only when its publication date, DOI or stable URL, journal title and ISSN could be checked. Related publications are evidence of topical publication activity; they are not submission or acceptance samples.

2.3 Ranking interpretation

The recommendation order gives the greatest importance to strong topical combinations and the number of verified related records in the same journal. Scope, language, article type and fee fields are treated as supporting conditions. Missing evidence remains unknown and is not converted into a positive claim. No numerical ranking field or acceptance probability is shown in this report.

3 Recommendation guidance

3.1 Submission sequence

(1) Start with the first-ranked journal and read its current aims and scope.

(2) Confirm the article type, manuscript language and current author instructions.

(3) Check the current publication charge, waiver terms and any additional fees.

(4) Use the related-paper records in Appendix B to compare methods, materials and analytical framing.

(5) Keep the next-ranked journal as a fallback until the first journal is verified.

3.2 Why the list may change

Publisher policies, fees, journal scope and database metadata can change. The report is a dated evidence snapshot and should be rechecked before submission.

4 Evidence boundaries and next checks

(1) Directory signals are not official publisher scope text.

(2) Related publications are not acceptance samples.

(1) Confirm current scope and article types on the official journal page.

(2) Confirm current fees, currency, taxes and waiver eligibility.

(3) Check the journal submission portal and manuscript formatting requirements.

(4) Do not interpret related publication records as evidence of acceptance probability.

Appendix A. Journal records

The appendix preserves the journal-level facts supporting the shortlist. Each entry is linked to its official journal page, scope page and DOAJ record.

A.1 (1) Foods

Field	Recorded value
Publisher	MDPI AG
Publisher country	Switzerland
ISSN	2304-8158
Publication charge	2900 CHF
Evidence tier	thermogravimetric analysis + polypropylene
Official journal	http://www.mdpi.com/journal/foods
Aims and scope	http://www.mdpi.com/journal/foods/about
DOAJ record	https://doaj.org/toc/6d59bbfecab14d41bb99c9955df30a7b

Appendix cross-reference: related publication records for this journal appear in Appendix B.1.

A.2 (2) Discover Polymers

Field	Recorded value
Publisher	Springer
Publisher country	Singapore
ISSN	3004-9377
Publication charge	1090 EUR; 1390 USD; 990 GBP
Evidence tier	thermogravimetric analysis + test factors
Official journal	https://link.springer.com/journal/44347
Aims and scope	https://link.springer.com/journal/44347/aims-and-scope
DOAJ record	https://doaj.org/toc/fe110ae48e2f4fca962b8aa152662405

Appendix cross-reference: related publication records for this journal appear in Appendix B.2.

A.3 (3) Jurnal Rekayasa Proses

Field	Recorded value
Publisher	Universitas Gadjah Mada
Publisher country	Indonesia
ISSN	1978-287X | 2549-1490
Publication charge	1000000 IDR
Evidence tier	thermogravimetric analysis + test factors
Official journal	https://jurnal.ugm.ac.id/jrekpros
Aims and scope	https://jurnal.ugm.ac.id/jrekpros/about/editorialPolicies#focusAndScope
DOAJ record	https://doaj.org/toc/13368aad21494611ab98adedc5ee5257

Appendix cross-reference: related publication records for this journal appear in Appendix B.3.

A.4 (4) Scientific Reports

Field	Recorded value
Publisher	Nature Portfolio
Publisher country	United Kingdom
ISSN	2045-2322
Publication charge	2490 EUR; 2850 USD; 2290 GBP
Evidence tier	thermogravimetric analysis + test factors
Official journal	https://www.nature.com/srep/
Aims and scope	https://www.nature.com/srep/about/aims
DOAJ record	https://doaj.org/toc/a93400557c92470b8603e96796297aab

Appendix cross-reference: related publication records for this journal appear in Appendix B.4.

A.5 (5) Energies

Field	Recorded value
Publisher	MDPI AG
Publisher country	Switzerland
ISSN	1996-1073
Publication charge	2600 CHF
Evidence tier	thermogravimetric analysis + test factors
Official journal	http://www.mdpi.com/journal/energies
Aims and scope	http://www.mdpi.com/journal/energies/about
DOAJ record	https://doaj.org/toc/83c088717e9d406296cc344d42afc607

Appendix cross-reference: related publication records for this journal appear in Appendix B.5.

Appendix B. Related publication records

These are public metadata records from the recent three-year search window. They support topical relevance only and must not be described as accepted or successful submissions.

B.1 (1) Foods

B.1.1 (1) Synergistic Effects and Kinetic Analysis in Co-Pyrolysis of Peanut Shells and Polypropylene

Publication date: 2024-04-13
Database source: openalex
DOI / URL: https://doi.org/10.3390/foods13081191

B.2 (2) Discover Polymers

B.2.1 (1) Impact of natural antioxidant (silybin) on the thermal stability of ultra high molecular weight polyethylene: a thermogravimetric study

Publication date: 2024-6-10
Database source: crossref
DOI / URL: https://doi.org/10.1007/s44347-024-00002-4

B.3 (3) Jurnal Rekayasa Proses

B.3.1 (1) Thermogravimetric Analysis of Indonesian Low-Rank Coal: Optimization of Drying Temperature and Kinetic Modeling

Publication date: 2025-4-24
Database source: crossref
DOI / URL: https://doi.org/10.22146/jrekpros.18102

B.4 (4) Scientific Reports

B.4.1 (1) Analysis of TGA data for polyvinyl alcohol at slow heating rate using deep neural networks, activation energy, and activation enthalpy

Publication date: 2025-10-29
Database source: crossref
DOI / URL: https://doi.org/10.1038/s41598-025-22946-8

B.4.2 (2) Thermogravimetric analysis of rice husk and low-density polyethylene co-pyrolysis: kinetic and thermodynamic parameters

Publication date: 2024-12-30
Database source: openalex
DOI / URL: https://doi.org/10.1038/s41598-024-82830-9

B.4.3 (3) Thermogravimetric and thermo-kinetic analysis of sugarcane bagasse pith: a comparative evaluation with other sugarcane residues

Publication date: 2024-01-24
Database source: openalex
DOI / URL: https://doi.org/10.1038/s41598-024-52500-x

B.5 (5) Energies

B.5.1 (1) Thermogravimetric Assessment and Kinetic Analysis of Forestry Residues Combustion

Publication date: 2025-6-24
Database source: crossref
DOI / URL: https://doi.org/10.3390/en18133299

B.5.2 (2) Thermal Decomposition and Kinetic Parameters of Three Biomass Feedstocks for the Performance of the Gasification Process Using a Thermogravimetric Analyzer

Publication date: 2024-01-12
Database source: openalex
DOI / URL: https://doi.org/10.3390/en17020396

B.5.3 (3) Thermogravimetric Experimental Study on the Co-Combustion Characteristics of Coal and Salix

Publication date: 2024-12-27
Database source: openalex
DOI / URL: https://doi.org/10.3390/en18010056

B.5.4 (4) Experimental Studies on Diesel Deterioration: Accelerated Oxidation in a Reaction Vessel and Thermogravimetric Analysis

Publication date: 2025-10-11
Database source: openalex
DOI / URL: https://doi.org/10.3390/en18205365

B.5.5 (5) The Torrefaction of Agricultural and Industrial Residues: Thermogravimetric Analysis, Characterization of the Products and TG-FTIR Analysis of the Gas Phase

Publication date: 2025-09-01
Database source: openalex
DOI / URL: https://doi.org/10.3390/en18174648

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