

HTM Journal of Heat Treatment and Materials

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Scope and general policies of the journal

Scope

The *HTM* is a bilingual (German-English) independently assessed and periodical standard publication that provides reports on all aspects of heat treatment and material technology in research and production. By publishing trend-setting contributions to research and practical experience reports, the *HTM* helps in answering scientific questions as well as regarding investment decisions in the industry. All articles are subject to thorough, independent peer review.

The HTM publishes six issues per volume in print and online (Feb/Apr/Jun/Aug/Oct/Dec).

The HTM is the official organ of AWT – Arbeitsgemeinschaft Wärmebehandlung und Werkstofftechnik e.V.

Article (manuscript) categories

- Research Article
- Technical Article

The general requirements for submissions of articles are as follows:

For a Research Article (scientific paper):

- corresponds to the subject area of *HTM*,
- contains new and previously unpublished content,
- meets the standard of HTM in terms of approach, state of knowledge, results and conclusions,
- contains at least five references to renowned sources/references.

For a Technical Article (technical-industrial paper):

- concerns HTM focus topics and related fields,
- technical objective,
- state of the art,
- solution approach (new plant technology, etc.),
- results obtained with the new technical solution,
- discussion of the results in comparison with the state of the art,
- contains generally usable information (no predominant advertising literature),
- contains at least five references to renowned sources/references.

Submissions in the following fields are welcome:

Annealing process Automation

Case hardening Component cleaning

Component testing Defects and damage during heat treatment

diffusion processes Dimensional and shape change

Electromagnetic rays FE simulation

Fixture hardening Gas nitriding

Hardening and tempering Heat treatment of tool steel

Induction hardening Integration of heat treatment into manufacturing

Laser hardening Machinery and plant technology
Material and component properties Material and heat treatment

Material and component properties Material and heat treatment
Measuring and testing technology Microstructure of metals

Measuring and testing technology Microstructure of meta Modern firing technology Nitrocarburizing Numerical Simulation Plasma nitriding

Press hardening Process chain influences on heat treatment

Process optimization Properties of steels applications

Quenching Residual stress and distortion development

Safety engineering Sensor technology Straightening processes Surface hardening

Surface technologies Technologies for different application processes

Temperature technology Testing of the heat treated condition

Thermo chemical Vacuum hardening

Peer review, turnaround times and preprint policies

Peer review information

The *HTM* is a single-blind journal. Manuscripts are reviewed by at least two independent reviewers selected by the Editorial Office. The authors may provide the names, institution, country and e-mail addresses of potential reviewers. Reviewers indicated by the authors must be of institutions different from those of any of the authors.

The editors reserve the right to reject submitted manuscripts without peer review if the studies are not novel or important enough to merit publication in the journal. Manuscripts deemed unsuitable (insufficient originality or limited interest to the target audience) will be also rejected without review.

Turnaround time

The *HTM* aspires to inform authors of the peer review decision within 4–5 weeks from submission date. Revised manuscripts should be returned within 10 days (minor revision)/18 days (major revision).

Rejection of manuscripts

Manuscripts dealing with subjects that have been well studied in the literature, and that do not resolve questions raised by previous studies, or manuscripts that are statistically underpowered, are likely to be rejected without peer review.

Reporting of negative results must be justified by prior evidence that a positive result would be expected. Manuscripts are also returned to authors if they do not comply with the Instructions for Authors.

Appeals

Manuscripts that have been rejected for publication will be reconsidered only at the discretion of the Editor(s). Authors wishing to request reconsideration of a previously rejected manuscript must do so in written form and submit a rebuttal by e-mail to the journal's editorial office. Authors should provide detailed reasons why they believe the manuscript should be reconsidered. If the rebuttal is accepted, the author will be asked to re-submit the manuscript.

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De Gruyter does not consider the following purposes of a paper as pre-publication: publication in the form of a congress abstract, publication as an academic thesis, publication as an electronic preprint on recognized servers such as arXiv, RePEc, bioRxiv, ResearchSquare, etc.

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We advise the following approach: Aim for gender neutrality by using plural nouns (clinicians, clients, participants) as standard and avoiding "he" or "she", wherever possible. Instead, please use "they". We recommend avoiding the use of descriptors that refer to personal characteristics such as age, gender, race, ethnicity, culture, sexual orientation, disability or health status unless they are relevant and valid.

Submission of manuscripts

Submit manuscripts exclusively online at: https://mc.manuscriptcentral.com/htm

You will be guided through the whole submission process in ScholarOne Manuscripts System.

We strongly recommend the authors register with institutional e-mail addresses, and refrain from using private e-mail addresses. A cover letter may be submitted for each manuscript upon first submission. It should contain a brief statement by the authors as to the element of novelty upon which they base their request for publication in the *HTM*. Please address the cover letter to the Editor-in-Chief. Revised manuscripts must be accompanied by a point-by-point reply to the reviewers' criticisms. Major changes in the revised manuscript must be highlighted, preferably in tracked changes mode.

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Manuscripts must follow certain ethical guidelines to be considered for publication. These can generally be found in the <u>Publication Ethics and Malpractice Statement</u>. Accordingly, before submitting your manuscript, please make sure that you and your co-authors agree to the applicable requirements. For example, this may involve declaring and ruling out conflicts of interest or proving compliance with legal requirements related to human and animal testing.

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Acknowledgments

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If no funding was provided for the research, the default statement will be set in place: None declared.

Data availability

HTM requires authors to follow our <u>Data Sharing Policy</u>, which must comply with the European GDPR (*General Data Protection Regulation*) rules. Research data should be made widely available to the research community to demonstrate the robustness and validity of the research presented in the journal, to enable and encourage replication of the results, and to allow the community with opportunities to learn.

By publishing in the journal, authors are required to provide a data availability statement (DAS) in their articles. The DAS confirms the presence or absence of shared data. The DAS should include information on where the data supporting the findings reported in the article can be found, including, if applicable, hyperlinks to publicly archived datasets analyzed or generated during the study. If research data are not publicly available, this must be stated in the manuscript, as well as the conditions for accessing the data.

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Preparation of manuscript

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All manuscripts must be written in clear and concise German, American or British English. Please use British or American English consistently. If you have reasons to doubt your proficiency with respect to spelling, grammar, etc. (e.g., because German or English is not your native language), then you may wish to employ—at your expense—the services of a professional language editor organized by the authors. The translation to the second language can be managed via the Editorial Office or the authors. Please note that German translations can be proofread by the Editorial Office whereas the proofreading of the English translations need to be arranged for by the authors.

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The text must be written as a continuous text with no manual returns and no automatic word division, please set the line spacing to one and a half.

The length for Research and Technical Articles should be about 6–10 non-typeset pages with a maximum of 12 figures/tables (in total).

A numbered structure (example: Abstract - Keywords - 1 Introduction - 2 Schedule of experiments - 3 Experiments - 4 Results - 5 Conclusions - 6 Summary) is required.

Please use the technical terms listed in the European Standard DIN EN ISO 4885:2018-07, Eisenwerkstoffe – Wärmebehandlung – Begriffe" (Ferrous materials – Heat treatments – Vocabulary (ISO 4885 : 2018); Matériaux

Instructions for Authors

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ferreux – Traitements thermiques – Vocabulaire (ISO 4885 : 2018)), physical quantities are to be presented in international units as listed in DIN 1304 and DIN 1301 (SI units).

Please see the <u>Manuscript Checklist</u> for detailed information on length and structure of specific article types.

The general requirements for submissions of articles are as follows:

For a Research Article (scientific paper):

- corresponds to the subject area of *HTM*,
- · contains new and previously unpublished content,
- meets the standard of HTM in terms of approach, state of knowledge, results and conclusions,
- contains at least five references to renowned sources/references.

For a Technical Article (technical-industrial paper):

- concerns HTM focus topics and related fields,
- technical objective,
- state of the art,
- solution approach (new plant technology, etc.),
- results obtained with the new technical solution,
- discussion of the results in comparison with the state of the art,
- contains generally usable information (no predominant advertising literature),
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Give a concise summary of your article in an abstract of approx. 200 words in a single paragraph including include the most important prerequisite conditions, objectives and results of the work. As abstracts are published separately by abstracting and indexing services, please spell out abbreviations at first use and do not include footnotes, tables, figures, equations or references.

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Keywords are used by abstracting and indexing services as well as search engines to facilitate finding your paper. Together with the abstract of your paper, they are a key tool enabling readers to find your paper and for increasing citations.

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Your manuscript should be subdivided into sections (and, if necessary, subsections). These sections should be labeled with headings in a consistent format (Arabic numerals) and with a clear hierarchy of section headings. Limit your subsections to a maximum of four levels. For subdivided sections ensure that they have at least two subheadings on one level. Headings do not have an end period.

References

The reference style for the *HTM* is **ACS numbered**.

Literature references to other papers, books, etc. should be numbered consecutively starting at the beginning of the article. Use square brackets (e. g. Smith [1], according to recent theories [2–7]) and list the reference by number (without brackets) in the reference list.

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When citing books, the author, title, publisher, place of publication and year, together with the referenced page(s) must be listed (in this sequence!).

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Journal

1. Waldeck, S.; Castens, M.; Riefler, R.; Frerichs, F.; Lübben, T.; Fritsching, U.: Mechanisms and Process Control for Quenching with Aqueous Polymer Solutions. HTM J. Heat Treatm. Mat. 74 (2019) 4, pp. 238–256, DOI: 10.3139/105.110387

Book

2. Beswick, J. M. (Ed.): Bearing Steel Technology – Advances and State of the Art in Bearing Steel Quality Assurance, 7th Volume. STP1465, ASTM International, West Conshohocken, PA, USA, 2007, DOI: 10.1520/stp1465-eb

Thesis

3. Merkel, J.: Untersuchungen zum Einfluss von Kugelstrahl- und Festwalzbehandlungen auf den Randschichtzustand und die Schwingfestigkeit von Sintereisenwerkstoffen. Dissertation, Universität Karlsruhe, 2008

Proceedings

4. Reich, M.; Milkereit, B.; Krawutschke, M.; Kalisch, J.; Schick, C.; Kessler, O.: Advanced dilatometry and calorimetry for the validation of materials mechanical and transformation models. Proc. 2nd World Congr. on Integrated Computational Materials Engineering, 07.-11.07.13, Salt Lake City, USA; *M. Li, C. Campbell, K. Thornton, E. Holm, P. Gumbsch* (Hrsg.), 2013, pp. 177-182, DOI: 10.1002/9781118767061.ch28

Standard

5. DIN EN 10216-2 : 2007-10: Nahtlose Stahlrohre für Druckbeanspruchungen. Teil 2: Rohre aus unlegierten und legierten Stählen mit festgelegten Eigenschaften bei erhöhten Temperaturen. Beuth, Berlin, 2007

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This is the main caption. a) This is part figure caption a, b) this is part figure caption b.

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Editorial office:

Belinda Schicks (schicks@iwt-bremen.de)

Leibniz-Institut für Werkstofforientierte Technologien – IWT (Bremen, Germany)

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