

# PPCHEM

The Journal of All Power & Plant Chemistry Areas

## Call for Papers/Guidelines for the Authors

Edition 2024

**The PowerPlant Chemistry<sup>®</sup> journal has become the PPCHEM<sup>®</sup> journal!**

Topics covered in the past such as corrosion, cycle chemistry guidelines, DeNOx and DeSOx processes, environmental aspects, flue gas cleaning, instrumentation, ion exchange, monitoring, physical chemistry, plant cycle chemistry, sampling, and wastewater treatment are not solely important in power generation but are of interest to the chemical, pharmaceutical, and process industries as well. The PPCHEM<sup>®</sup> journal wants to serve all users who are involved in efforts to increase re-

liability, availability, economic viability, and the operational and environmental safety of these processes.

With the renaming of the journal, we would like to open the journal to authors, readers, and advertisers from outside the field of power generation. Water treatment and cycle chemistry are not only challenges in power generation but also in all industrial processes where water or steam is being used.



## INTRODUCTION

The PPCHEM<sup>®</sup> journal covers all aspects of power and plant chemistry. Some examples in alphabetical order:

Analytics, Chemical Cleaning, Chemical Thermodynamics, Component Failures, Condensate Polishing, Cooling Water, Corrosion, Cycle Chemistry Guidelines, Cycling and Peaking, Deaeration, DeNO<sub>x</sub> and DeSO<sub>x</sub> Processes, Deposition, Flue Gas Cleaning, Fly Ash, Instrumentation, Layup, Physical Chemistry, Plant Cycle Chemistry, Sampling, Startup, Steam Chemistry, Troubleshooting, Wastewater Treatment, Water Treatment, and all other power and plant chemistry-related topics.

The PPCHEM<sup>®</sup> journal is also interested in releases on new products, techniques, procedures, etc. Printing of releases is free for current advertisers (on a space available basis). Other parties: Please refer to the Advertisement Rate Table in our Media Information.

## PAPER SUBMISSION

All papers presented to the PPCHEM<sup>®</sup> journal must be submitted in English, exclusively in electronic format. Please also submit a PDF file of your paper for comparison.

Please prepare papers for submission according to the following format specifications:

Paper size:	A4 or US Letter
Columns:	Single-columned
Margins:	2 cm or 0.8 inch
Font:	Arial
Font size:	12 pt
Line spacing:	Single-spaced (1)
Paragraphs:	A single line between paragraphs, no indentation
Section headings:	Principle subhead (first level): Bold, upper case
	Second level: Bold, headline-style capitalization
	Third level: Bold, run into the paragraph
Footnotes:	Please avoid using footnotes.

The submission of a paper does not guarantee publication. All materials sent to the PPCHEM<sup>®</sup> journal may be subject to editing.

## PAPER REVIEW

At least one internationally recognized expert active in the area covered by the submitted scientific and technical paper will peer review the submitted paper. The reviewer's (reviewers') comments will be anonymously passed on to the author (main author). The author may decide whether he or she wants to improve his or her paper in accordance with the reviewer's (reviewers') recommendations.

PPCHEM AG reserves the right to refuse the publication of papers that have not been improved or whose refusal has been recommended by the reviewer(s).

Reports on utility experience are, as a rule, not subject to external reviews.

## COPYRIGHT

PPCHEM AG must receive a signed publishing license agreement before the paper can be accepted for publication in the PPCHEM<sup>®</sup> journal.

## TEXT

### Spelling

Spelling should be either consistently American or consistently British. Uppercase letters should only be used at the beginning of proper nouns. Abbreviations should only be used if very necessary – as with a long word combination like heat recovery steam generator (HRSG) – and should be explained with the first use.

### Author's (Authors') Names

Use the full names of all authors, e.g., Kevin C. Miller, Karl-Heinz Strassenhauer, etc.

### Title of the Paper

Do not use very long titles. The maximum length of the title is twelve words.

### Abstract

An abstract of the paper summarizing the topic and conclusions (150 words maximum) appears at the beginning of the paper and on our homepage.

### Units

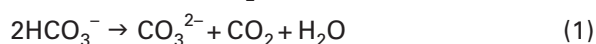
All units used must be SI units; the latest rules of IUPAP, IUPAC, ISO, etc. should be followed. The use of other units is only possible as supplemental information and must be written in parentheses following the correct SI term.

## Mathematical and Chemical Equations

All equations used should be clear and understandable. They should be positioned on a separate line in the text and numbered. All symbols used should be explained in plaintext. In papers which contain more than 10 different symbols a separate list of notation defining all symbols used should appear at the beginning of the paper.

Example:

Thermal decomposition of hydrogen carbonate ions and carbonate ions according to Eqs. (1) and (2), respectively, results in the formation of carbon dioxide (CO<sub>2</sub>):



## FIGURES

Figures (drawings, graphs, and photographs) can either be reproduced in color (four color offset printing process) or in black and white.

All figures should be submitted in separate \*.TIF or \*.JPG files. Figures embedded in PDF, Excel, or PowerPoint files are also acceptable.

The minimum width for any submitted figure is 77.5mm; photographs additionally must have adequate resolution (300 dpi).

Do not include too many details in a single figure. In tables, all columns have to include a column heading and units.

The captions of all figures should be included on a separate page at the end of the text.

## REFERENCES

All references must be complete and conform to the following examples. The references must be mentioned in the text or in the figure captions using square brackets with the reference number.

Examples:

All relevant information on underdeposit boiler tube failure mechanisms is summarized in [14].

Figure 4:

Dissolved iron, chromium and nickel concentrations during the trial plant cleaning [15].

### Books

Author's surname, initials, *Title of the Book* (in italics), **year** (in bold). Publisher, city, state, country of publication.

Examples:

- [1] Simkine, V., Vance, C. P., *Physical Chemistry*, 1999. United Publishers, Hockenheim, Germany.
- [2] Hömig, H. E., *Metal and Water*, 1964. Vulkan-Verlag Dr. W. Clasen, Essen, Germany, 2nd Edition [in German].

### Periodicals

Author's surname, initials, "Title of the Article", *Journal* (in italics) **year** (in bold), volume(issue), page (the first page of the article).

Examples:

- [3] Dooley, R. B., Anderson, R., "Assessments of HSRGs – Trends in Cycle Chemistry and Thermal Transient Performance", *Power-Plant Chemistry* 2009, 11(3), 132.
- [4] Friggens, H. A., Holmes, D. R., "Nucleation and Growth of Magnetite Films on Fe in High Temperature Water", *Corrosion Science* 1968, 8(12), 871.

### Conference Proceedings

Author's surname, initials, "Title of the Presentation", *Proc., Title of the Conference* (in italics), **year** (in bold) (venue/city, state, country). Conference organizer, city, state, country, order number, page (the first page of the paper).

Examples:

- [5] Lister, D., Weerakul, S., Caravaggio, M., "The Effects of a Film-Forming Amine on Flow-Accelerated Corrosion in Single- and Two-Phase Flows", *Proc., International Conference on Flow-Accelerated Corrosion*, 2016 (Lille, France). Électricité de France, Paris, France.
- [6] Ramminger, U., Fandrich, J., Drexler, A., "An Innovative Strategy for Secondary Side System Lay-Up Using Film-Forming Amines", *Proc., 7th International Steam Generator to Controls Conference*, 2012 (Toronto, Canada). Canadian Nuclear Society, Toronto, ON, Canada.

### Presentations Not Published in Conference Proceedings

Author's surname, initials, "Title of the Presentation", *presented at Title of the Conference* (in italics), **year** (in bold) (venue/city, state, country). Conference organizer, city, state, country.

Example:

- [7] Post, R., Buecker, B., Shulder, S., "Power Plant Cooling Water Fundamentals", *presented at the 37th Annual Electric Utility Chemistry Workshop*, 2017 (Champaign, IL, USA). University of Illinois at Urbana-Champaign, Champaign, IL, USA.

### Articles in Books or Edited Proceedings

Author's surname, initials, "Title of the Article/Presentation" *Title of the Book* (in italics) or *Proc., Title of the Conference* (in italics) (Eds.: initials surname) (in italics), **year** (in bold). Publisher, city, state, country of publication, order number, page (the first page of the paper).

Examples:

- [8] Kim, Y.-J., Andresen, P. L., Hettiarachchi, S., "Use of Noble Metal Nanoparticle for SCC Mitigation in BWRs", *Proc., 15th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors* (Eds.: J. T. Busby, G. Ilevbare, P. L. Andresen), 2011. Springer, Cham, Switzerland, 1993.

### Technical Reports

*Title of the Report* (in italics), **year** (in bold). Organization, city, state, country, order number.

Example:

- [9] *PWR Primary Water Chemistry Guidelines, Revision 4*, 1999. Electric Power Research Institute, Palo Alto, CA, USA, EPRI-TR-05714, V1.

### Ph.D. Thesis

Author's surname, initials, *Title of the Thesis* (in italics), **year** (in bold). Ph.D. Thesis, university, city, state, country.

Example:

- [10] Chempik, E., *Detailed Study of Surface Active Substance Effect on Power and Structural Parameters of Wet Steam Turbines and Behavior of Major Steam-Water Equipment*, 1980. Ph.D. Thesis, Moscow Power Institute, Moscow, USSR.

### Articles/Reports Published Online

Author's surname, initials, *Title of the Article/Document* (in italics), **year** (in bold). Organization, order number.

Available from URL.

Examples:

- [11] Storm, R. F., *Typical Causes of Slagging and Fouling Problems in Boilers*, 2015. Available from <http://www.powermag.com>.

- [12] Barton, N. A., *Erosion in Elbows in Hydrocarbon Production Systems: Review Document*, 2003.

Available from <http://www.hse.gov.uk>.

- [13] *Technical Guidance Document: Steam Purity for Turbine Operation*, 2013. International Association for the Properties of Water and Steam, IAPWS-TGD5-13.

Available from <http://www.iapws.org>.

### Other Online Sources (Websites)

Organization, city, state, country: URL.

- [14] Cooling Technology Institute, Houston, TX, USA: <https://www.cti.org>.

### Patents

Inventor's surname, initials, *Title of the Patent* (in italics), **year** (in bold). Patent office, publication number.

Example:

- [15] Lok, G. W., Peters, S., Olivier, G. A., *Measurement of the Cation Conductivity of Water*, 1998. United States Patent and Trademark Office, US 6017445 A.

### Private Communication

Person's full name (affiliation), **year** (in bold).

Example:

- [16] John W. Brown (PowerPlant Chemistry GmbH, Neulussheim, Germany), 1999.

### Multiple Reference

- [17] Bellows, J. C., "Chemical Processes in Steam Turbines", *Proc., 76th International Water Conference*, 2015 (Orlando, FL, USA). Engineers' Society of Western Pennsylvania, Pittsburgh, PA, USA, IWC 15-25.

Also published in: *PowerPlant Chemistry* 2016, 18(4), 184.

## BIOGRAPHIES

Biographies of all authors appear at the end of the text. The biography should start with the full name of the respective author and his or her academic qualifications.

Example:

**John B. Smith** (B.S., Applied Chemistry, University of Auckland, New Zealand, Ph.D., Physical Chemistry, University of Glasgow, Scotland) is ...

The maximum length of a biography is 100 words.



**CORRESPONDING AUTHOR**

Each paper closes with a complete mailing and E-mail address of the author who is responsible for correspondence from and to our readers.

**WHERE TO SUBMIT**

Mailing addresses for your submissions:

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**PPCHEM<sup>®</sup> Journal****Editorial Schedule 2024****PPCHEM<sup>®</sup> JOURNAL 2024, 26(1)**

Call for papers closing: December 22, 2023

Editorial deadline: January 22, 2024

Printing date: End of January 2024

Mailing date: Beginning of February 2024

**PPCHEM<sup>®</sup> JOURNAL 2024, 26(2)**

Call for papers closing: February 23, 2024

Editorial deadline: March 22, 2024

Printing date: End of March 2024

Mailing date: Beginning of April 2024

**PPCHEM<sup>®</sup> JOURNAL 2024, 26(3)**

Call for papers closing: April 19, 2024

Editorial deadline: May 21, 2024

Printing date: End of May 2024

Mailing date: Beginning of June 2024

**PPCHEM<sup>®</sup> JOURNAL 2024, 26(4)**

Call for papers closing: July 12, 2024

Editorial deadline: August 12, 2024

Printing date: Middle of August 2024

Mailing date: End of August 2024

**PPCHEM<sup>®</sup> JOURNAL 2024, 26(5)**

Call for papers closing: August 30, 2024

Editorial deadline: September 30, 2024

Printing date: Beginning of October 2024

Mailing date: Middle of October 2024

**PPCHEM<sup>®</sup> JOURNAL 2024, 26(6)**

Call for papers closing: October 25, 2024

Editorial deadline: November 25, 2024

Printing date: Beginning of December 2024

Mailing date: Middle of December 2024

**Explanation:****Call for papers closing:**

By the date stated for each issue, we should at least have a first draft of the paper to send to our reviewers.

**Editorial deadline:**

By the date stated for each issue, the paper should have its final form and be released by the author and the editorial team in Hinwil.

**Printing date:**

After this date, changes can no longer be made because the new issue is being printed.

**Mailing date:**

The new issue is sent to our readers.