

Instructions for Authors of Science and Technology of Energetic Materials(STEM)

(Last update: 30-April-2014)

The *Science and Technology of Energetic Materials* is devoted to the publications of scientific research and engineering studies in the fields of explosion, combustion, energetic materials, and related areas.

1. Qualifications

At least one of the authors should be a member of the Japan Explosives Society, provided, however, that non-member authors may be allowed with the approval of the editorial board.

2. Copyright

The Japan Explosives Society holds the copyrights of the published articles and derivative rights defined in Articles, 27 and 28 of the Copyright Law of Japan (translation rights, adaptation rights, and utilization rights for secondary work).

3. Types of articles

The following three types of articles will be considered for publications: **Review, Research paper, and Letter**. The language of the article must be in English. Must be original and unpublished articles. The articles should follow the guidelines listed in this instructions and "Manuscript Preparation". The articles should consist of the cover page, English abstract, key words, main text, references, figures and tables.

3.1 Reviews

The subjects in the area of explosives, energetic materials, and related areas should be compiled and discussed in the reviews. * The maximum total length is 10 printed pages.

3.2 Research papers

The research papers should contain original and meaningful studies. The maximum total length shall be no more than 6 printed pages. * The number of figures should be no more than 12.

3.3 Letters

The letters should be short reports which include original results and valuable scientific data. The maximum total length shall be no more than 3 printed pages. * A Letter can be published as a research paper with more detailed results and descriptions at a later date.

4. Miscellaneous

4.1 The received date will be the day on which the research paper arrives at the editorial office. The accepted date will be written on the manuscript by the editorial committee.

4.2 The editorial committee will determine whether the manuscript is accepted for publication, the type of article, and will make corrections as deemed necessary.

4.3 The editorial committee can request amendments to the manuscript. The authors should resubmit their manuscript as soon as possible with the requested amendments. If the manuscript is not returned within 3 month, the manuscript will be considered withdrawn by the authors.

4.4 Authors will be given the opportunity to proofread once the manuscript prior to publication. Typographical errors can be corrected, but the insertion of new words and sentences will not be allowed. Authors should return the proof to the editorial office within 5 days. If the proof is not returned in time, the proofreading by the editorial committee will be considered final.

A completed copyright transfer form should accompany the proofread manuscript.

4.5 Submitted manuscripts will not be returned to the authors.

Manuscript Preparation

1. Text preparation

- 1.1** Manuscripts should be prepared using Microsoft Word. Authors who are not available to use Microsoft Word should inform the editorial office and follow their instructions.

Manuscripts should be prepared on A4 portrait leaving a margin (25 mm) on all four sides; point size should be 12; any page should not exceed 36 lines. Use font type “Century” or some other serif font type. Consecutive numbering of all pages is required. The main text should be prepared with numbered lines for efficient review.

- 1.2** The first page of the manuscript should include, the type of the article, Title, Authors' name, and the receipt and approval dates with a blank that could be filled in by the editorial office (e.g. “Received on _____” and “Accepted on _____”). Your country name should be written in capital letters. (e.g. JAPAN)

Affiliations, addresses, contact telephone numbers, a contact e-mail address should follow as shown in the example below. The corresponding author must be identified with a superscript dagger on his/her name.

(Example) Manabu Kayaku^{*†} and Hanako Bakuhatu^{**}
[No comma (,) is required between two authors.]
Manabu Kayaku^{*†}, Hanako Bakuhatu^{*}, and Mamoru Anzen^{**}
[Commas(,) are required between more than three authors.]
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Fukuoka 813-8503, JAPAN

- 1.3** Authors are urged to prepare the manuscript as a single file including a cover page, English abstract, informative key words of no more than five, references, figures and tables in this order. Page numbers should be inserted at the bottom center starting from the cover page throughout the manuscript.

- 1.4** Subsequent papers should be numbered as (I), (II).

- 1.5** The main text for research papers should preferably contain sections such as the Introduction, Theoretical, Experimental, Results, Discussion, and Conclusion. The unnecessary sections can be omitted.

- 1.6** Articles should be written clearly and concisely.

- 1.7** Sections, subsections, and sub-subsections should be numbered 1., 1.2, and 1.2.3, respectively.

- 1.8** Mathematical formulas should be generally expressed as $\frac{x}{a}$, $\frac{a+b}{c+d}$. Mathematical formulas

contained in the body of the text should be expressed in the following format: x/a , $(a+b)/(c+d)$. Variables should be in a slanted (*italics*) font.

(Example) $\rho_0 \cdot U_s = \rho_1 \cdot (U_s - U_p)$

Mathematical formulas should be referred to as “Equation 1” in the text.

- 1.9** SI units should be used throughout. Do not use symbol names (such as second, volt) together with the symbols for units (s, V, etc.). The products of units should be expressed as “N·m” or “N m” (with one space between the units). The quotients of units should be expressed as m s^{-1} .
- 1.10** Chemicals should be expressed not with formulas, but with compound names except for elements and simple inorganic compounds: CO_2 , NO_x , etc. Nomenclature should conform to IUPAC rules. Abbreviations and numbers expressing compounds should be defined in parenthesis following standard nomenclatures at their first appearance in the text. The numbers must be Arabic and in the gothic font. The numbers in the text after their definition should be used without parenthesis.

(Example) Ammonium perchlorate (AP)
2,3-dinitro-*p*-Xylene (1)

- 1.11** All publications cited in the text should be listed in the Reference section. In the text, references should be numbered in the one consecutive series regardless of their type as xxx¹⁾, yyy^{2),3)}, or zzz⁴⁾⁻⁶⁾. The reference section should include all author names as the following example; the initial of the first name should be followed by the family name. Journal abbreviations should conform to those used in Chemical Abstracts. This journal should be cited as “Sci. and Tech. Energetic Materials”.

(Journals)

- 1) T. Yamada and I. Suzuki, Kayaku Gakkaishi (Sci. and Tech. Energetic Materials), 55, 351-356 (1994) (in Japanese).
- 2) C. Lewis, R. Walsh, and R. Becerra, J. Am. Chem. Soc., 93, 250-254 (1971).

(Books, Proceedings, and other publications)

- 3) T. Urbanski, “Chemistry and Technology of Explosives”, Vol. 2, 62, Pergamon Press (1965).
- 4) J. A. Britten and C. K. Westbrook, Proc. Twenty-Third Symposium on Combustion, 195-202, The Combustion Institute, Pittsburgh (1990).

(Web sites)

- 5) Japan Explosives Society, “Science and Technology of Energetic Materials Notes for Contributors”, http://www.jes.or.jp/mag_eng/stem/ref/NotesJ.html, (accessed: 30-April- 2012) (online).

- 1.12** Tables and figures should be indicated as [Table 1] or [Figure 1] in the text between line feeds. Tables and figures should be referred to as “Table 1” and “Figure 1” in the text.
- 1.13** In principle, the authors will have to change in case of a manuscript exceeding the maximum page limit. An additional fee of 10,000 JPY will be charged per page if necessary.

2. Preparation of figures tables and photos

- 2.1** Each figure or table should be placed on a separate page and marked in the margin with the number, title, and caption. The captions should be with a capital letter at the beginning and a period (.) at the end. Figures and tables should be numbered consecutively in the order to which they are referred.

(Example) Figure 1 Chemical structure of RDX.

- 2.2** All figures and photos should be provided in good quality for printouts. The width must be 85 mm or 175 mm. The photos prepared as jpeg data which resolution is greater than 350 dpi. Our editorial committee prefers graphs prepared as vector data Serif font such as Century; point size is 10 point.
- 2.3** The Units in the figures, or the tables, or the photos should be enclosed within square brackets [].
- 2.4** The Tables should be prepared as shown in the following example, without vertical gridlines.

(Example)	Explosives	H ₅₀ [mm]	Time constants [s]
	NQ	3200	0.13
	NTO	860	0.118
	RDX	240	0.052
	PETN	120	0.016

3. How to submit

We strongly recommend using the electronic submissions available on the web site to reduce some editorial processes, although hardcopy submissions can be still accepted.

3.1 Electronic submission

Authors can upload the manuscript file onto the Japan Explosives Society server (<http://www.jes.or.jp/eng/>) and are required to complete the checklist appears before the upload screen. Authors will receive a confirmation email after the submission completed. After the approval review by the editorial committee, authors will be able to upload the manuscript file with corrections.

3.2 Hardcopy submissions

Authors should submit two copies of the original manuscript with the checklist* to the editorial office **. After the approval review by the editorial committee, authors should mail the electronic media such as CD-ROM saving the manuscripts with corrections. The submitted media will not be returned in principal.

Please refer the latest Notes for Authors on Website of Japan Explosives Society. (<http://www.jes.or.jp/>)

*The checklist provided in the first issue of Science and Technology of Energetic Materials in this year, or posted on our Website should be used.

**Hardcopy should be sent to the following mail address:

Editorial Office of the Journal of Japan Explosives Society,
c/o Japan Explosives Industry Association
Ichijoji Bldg. 3F, 2-3-22, Azabudai, Minato-ku, Tokyo 106-0041, JAPAN
TEL +81-3-5575-6605 / FAX +81-3-5575-6607

Checklist for manuscript submission for authors

Title :

Author(s) :

Corresponding author:

Affiliation and address of corresponding author:

Corresponding e-mail address:

Types of articles: ☐ Review ☐ Research paper ☐ Letter (Check the appropriate box)

Area: ☐ Explosion safety ☐ Blasting ☐ Propellant and pyrolant ☐ Pyrotechnics ☐ Fireworks

☐ Detection of Explosives ☐ Gas Detonation ☐ Shock compression of condensed matter

☐ Pyro-technique safety devices for automobile ☐ Others (Check the appropriate box)

[Manuscript] Confirm the following items about your manuscript

- [] Is title on the first page?
- [] Are all authors included on the first page? Is there “and” before the last author?
- [] Are affiliation(s), address(es), telephone number, and e-mail address of author(s) correctly written?
- [] Is abstract included?
- [] Are page numbers inserted at the bottom center from the cover page throughout the manuscript?
Total [] pages
- [] Total [] tables
- [] Total [] figures
- [] Are variables in the text body expressed in *italics*?
- [] Are sections numbered in a point system like 2., 2.1, and 2.2.3?
- [] Are reference cited in the manner of “Manuscript Preparation”?

[Tables and Figures]

- [] Does each page of tables and figures include the numbers, title, and captions in the margin?
- [] Are tables and figures explained in the text body accompanied by their numbers?
- [] Are table and figure positions indicated in the text body?
- [] Are figures and photos clear enough for reproduction? Are figures and photos original?

[Copy permission]

- [] Do authors have written permission from the publisher for copied tables and figures from other publications?

[Comments to editor]