

Light: Advanced Manufacturing

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ABOUT THE JOURNAL

Aims and Scope

Light: Advanced Manufacturing (LAM) is a sister research journal of *Light: Science & Applications* (LSA). The aim for *Light: Advanced Manufacturing* is to publish innovative research in all modern areas of preferred light-based manufacturing, including fundamental and applied research as well as industrial innovations.

Topics of particular interest within the journal's scope include, but are not limited to, those listed below:

- Advanced Information Technologies for Manufacturing
- Additive Manufacturing Technologies
- Advanced Materials: Design, Fabrication and Application
- Artificial Intelligence for Product Design, Manufacturing & Operation
- Digital Production Technologies
- AR, VR and MR: Industrial Application
- Bio-Medical-Technologies: Instrumentation, Fabrication and Application
- Precision Instruments: Design, Fabrication and Application
- Light Weight Technologies
- Large Optics Fabrication and Testing
- New Fabrication Tools
- Smart Home Equipment: Design, Fabrication and Application
- Micro and Nano Fabrication: Tools and Technologies
- Energy Harvesting and Storage Technologies
- Manufacturing of Functional Surfaces
- High-Precision Optical Surface Finishing
- In-Line-Measurement and Inspection Technologies
- Uncertainty Estimation and Quality Assurance
- Reverse Engineering Technologies
- Norms and Standards
- Robot and Autonomous Vehicle Applications
- Remote Sensing
- Integrated Photonics Green Photonics Technologies
- Energy-efficient and Green Photonics Technologies
- Super-resolution and Extra-wide Field Imaging
- Terahertz and Microwave Photonic Technologies in Measurements

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- ✧ Highlighting new business and supporting young entrepreneurs in dissemination of their products

The journal publishes peer-reviewed Articles, Letters, Review Articles and News & Views.

Journal Details

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ARTICLE TYPES

Article Description	Abstract	Word Limit
<p>Article The article denotes a relatively complete, comprehensive report of original research. An article usually has a fairly complex narrative that is based on multiple techniques and/or approaches.</p>	Unstructured abstract; max word limit: 250	6,000 words excluding abstract, references, figures and tables
<p>Letter A Letter reports an important novel research result, but is less substantial than an Article. Letters are peer reviewed, and typically occupy four printed journal pages. This format begins with an introductory paragraph (not abstract) of 150 words maximum, summarizing the background, rationale, main results and implications. This paragraph should be referenced, and should be considered part of the main text, so that any subsequent introductory material avoids too much repetition of the introductory paragraph. Letters are not divided by headings, except for the Methods section. Letters include received/accepted dates and may be accompanied by supplementary information.</p>	None	1,500 words excluding methods, references, figures and tables
<p>Review Article Review Articles cover a focused area on the advancing edge of optics and photonics and provide a balanced view of current research that can be understood by researchers outside that specialty. Review Articles do not require 'Materials and methods' or 'Results and discussion' sections but can be structured using short topical headings. Review Articles will be subject to the established review process.</p>	Unstructured abstract; max word limit: 250	6,000 words excluding abstract, references, figures and tables
<p>News & Views News and Views are by prior arrangement only, although prospective authors are welcome to make proposals. They may be linked to articles in LAM or they may focus on papers of exceptional significance that are published elsewhere. News and Views are not peer-reviewed.</p>	Abstract should be less than 50 words	500-1500 words

Word limit

Word limits are provided for guidance only. The Editors will consider submissions that exceed the recommended limit, subject to feedback received during peer review.

PREPARATION OF ARTICLES

Articles are recommended to contain the following components in the order stated. Please see below for further details.

- Title page
- Abstract
- Keywords
- Introduction
- Results
- Discussion
- Materials and methods
- Acknowledgements
- Conflict of interests
- Contributions
- References
- Figure legends
- Tables
- Figures

Article Requirements

Cover letter

Each manuscript must be accompanied by a cover letter including statements that:

- All authors agree with the submission;
- The work has not been published or submitted for publication elsewhere, either completely or in part, or in another form or language;
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- Conflict of Interest Statement

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For first submissions (i.e. not revised manuscripts), articles are recommended to be prepared using the template. Supplementary Information should be supplied as a separate file in word or PDF format, preferably in PDF format.

Alternatively authors can follow the guidelines outlined below, which must be followed when submitting files for revisions.

All textual content should be provided in a single file, prepared using Microsoft Word or LaTeX; figures should be provided in individual files. The manuscript text file should include the following parts, in order: a title page with author affiliations and contact information (the corresponding author should be identified with an asterisk); the sections required for each content type (see information for different content types) then References, Acknowledgements (optional), Author Contributions,

Competing Financial Interests statement, Figure Legends and Tables. Footnotes to the text are not allowed and any such material should be incorporated into the text as parenthetical matter.

(i) Title page

The title page should include a succinct title (less than 200 characters); a concise running title (which should normally not exceed 50 characters); the full names of all authors including their given names; the affiliations (including city, state, country and zip code) of all authors; the official email addresses of all authors, and the full contact details of the corresponding author (including telephone and fax numbers).

(ii) Abstract

A brief abstract (**maximum 250 words**) should state the **purpose, basic procedures, main findings and principal conclusions of the study**. The abstract should not contain abbreviations or references and should not be structured.

(iii) Introduction

The Introduction should summarize the rationale for the study and outline pertinent background material. The Introduction should not contain either results or conclusions.

(iv) Results

The Results should be presented in a logical sequence in the text, tables and figures; repetitive presentation of the same data in different forms should be avoided. The Results should not include material appropriate to the Discussion.

(v) Discussion

The Discussion should not reiterate Results, but rather should consider them in relation to any hypotheses advanced in the Introduction. This may include an evaluation of methodology and the relationship of new information to the existing body of knowledge in that field.

(vi) Materials and methods

Materials and Methods should be described in sufficient detail to allow the experimental work to be reproduced in another laboratory, and to leave the reader in no doubt as to how the results were derived.

Availability of data, materials and methods: An inherent principle of publication is that others should be able to replicate and build upon the authors' published claims. A condition of publication is that authors are required to make materials, data, code, and associated protocols promptly available to readers without undue qualifications.

Submission of a manuscript to *Light: Advanced Manufacturing* implies that materials described in the manuscript, including all relevant raw data, will be freely available to any scientist wishing to use them for non-commercial purposes, without breaching participant confidentiality.

Data availability statements: Data availability statements provide a statement about where data supporting the results reported in a published article can be found - including, where applicable, hyperlinks to publicly archived datasets analysed or generated during the study. For all original research articles, we require data availability statements. The statement should be placed at the end of the Methods section (titled, 'Data availability'), after the code availability statement if one is present.

Light: Advanced Manufacturing strongly encourages that all datasets on which the conclusions of the paper rely should be available to readers. We encourage authors to ensure that their datasets are either deposited in publicly available repositories (where available and appropriate) or presented in the main manuscript or additional supporting files whenever possible. General repositories - for all types of research data - such as [figshare](#) and [Dryad](#) may be used where appropriate.

Where a widely established research community expectation for data archiving in public repositories exists, submission to a community-endorsed, public repository is mandatory. Persistent identifiers (such as DOIs and accession numbers) for relevant datasets must be provided in the paper.

(vii) Acknowledgements

Authors should acknowledge the source of financial grants and other funding, and declare any industrial links or affiliations. The contribution of colleagues or institutions should also be acknowledged. Personal thanks and thanks to anonymous reviewers should not be included.

(viii) Conflict of interests

A conflict of interest statement must be included for each contributing author. Please see the Conflict of Interest guidelines in the Editorial Policies section for more information and for guidelines on what constitutes a conflict of interest.

(ix) References

References: All necessary references should be included in order to credit previous work directly relevant to the article. In the text they should appear as superscript numbers starting at 1 and at the end of the paper they should be listed (double-spaced) in numerical order corresponding to the order of citation in the text. Where a reference is to appear next to a number in the text, for example, following an equation, chemical formula or biological acronym, citations should be written as (Ref. X) and not as superscript. Example: "detectable levels of endogenous Bcl-2 (Ref. 3), as confirmed by western blot."

All authors should be listed for papers with up to three authors; for papers with more than three authors, the first only should be listed, followed by *et al.* Abbreviations for titles of medical periodicals should conform to those used in the latest edition of Index Medicus. The first and last page numbers for each reference should be provided. Abstracts must be identified as such. Papers in press and preprints

hosted on a recognized server may be included in the list of references.

Personal communications must be allocated a number and included in the list of references in the usual way or simply referred to in the text; the authors may choose which method to use. In either case authors must obtain permission from the individual concerned to quote his/her unpublished work.

Examples:

Journal article, up to five authors:

Belkaid, Y. & Rouse, B. T. Natural regulatory T cells in infectious disease. *Nat. Immunol.* **6**, 353–360 (2005).

Journal article, e-pub ahead of print:

Bonin, M. *et al.* F-ara-A pharmacokinetics during reduced-intensity conditioning therapy with fludarabine and busulfan. *Bone Marrow Transplant.* <http://dx.doi.org/10.1038/sj.bmt.1705565> (2007).

Journal article, in press:

Gallardo, R. L., Juneja, H. S. & Gardner, F. H. Normal human marrow stromal cells induce clonal growth of human malignant T-lymphoblasts. *Int. J. Cell Cloning* (in the press).

Complete book:

Atkinson, K. *et al.* (eds) *Clinical Bone Marrow and Blood Stem Cell Transplantation* (Cambridge Univ. Press, 2004).

Chapter in book:

Harley, N. H. & Vivian, L. in *Mechanisms of Disease* 4th edn, Vol. 2 (eds Sodeman, W. A. & Smith, A.) Ch. 3 (Saunders, 1974).

Abstract:

Feig, S. A. *et al.* Bone marrow transplantation for neuroblastoma. *Exp. Hematol.* **13**, abstr. 102 (1985).

Preprint:

Starrfelt, J. & Liow, L.H. How many dinosaur species were there? Fossil bias and true richness estimated using a Poisson sampling model (TRiPS). Preprint at <http://biorxiv.org/content/early/2015/12/04/025940> (2015).

Research dataset:

Hao, Z., AghaKouchak, A., Nakhjiri, N. & Farahmand, A. Global Integrated Drought Monitoring and Prediction System (GIDMaPS) Data sets. [figshare](http://dx.doi.org/10.6084/m9.figshare.853801). <http://dx.doi.org/10.6084/m9.figshare.853801> (2014).

Please add reference examples for dissertation/thesis, scientific report, patent, materials on internet

General Figure Guidelines

Use distinct colours with comparable visibility and consider colour-blind individuals by avoiding the use of red and green for contrast. Recoloring primary data, such as fluorescence images, to colour-safe combinations such as

green and magenta, turquoise and red, yellow and blue or other accessible colour palettes is strongly encouraged. Use of the rainbow colour scale should be avoided. Use solid colour for filling objects and avoid hatch patterns. Avoid background shading. Figures divided into parts should be labelled with a lower-case, boldface 'a', 'b', etc. in the top left-hand corner. Labelling of axes, keys and so on should be in 'sentence case' (first word capitalized only) with no full stop. Units must have a space between the number and the unit, and follow the nomenclature common to your field. Spaces, not commas should be used to separate thousands. Unusual units or abbreviations should be spelled out in full, or defined in the legend.

Final Figure Submission Guidelines

Should your manuscript be accepted, you will receive more extensive instructions for final submission of display items. However, a summary of our guidelines for final figure preparation are included here.

- Each figure should be saved in a separate file. Figures including multiple parts (e.g. Fig. 1a, 1b, 1c) should be saved in a single file (e.g. Figure1a-c). The figure number should be placed above each figure. Figure legends should be inserted in the article's text file.
- Images should be saved in CMYK color mode at 600 dpi or higher resolution.
- Use the same typeface (Arial, Helvetica or Times New Roman) for all figures. Use symbol font for Greek letters.
- We prefer vector files with editable layers. Acceptable formats are: .ai, .eps, .pdf, .ps, .svg for fully editable vector-based art; layered .psd or .tiff for editable layered art; .psd, .tif, .jpeg or .png for bitmap images; .ppt or .pptx if fully editable and without styling effects; ChemDraw (.cdx) for chemical structures.

Display items that contain chemical structures should be produced using ChemDraw or a similar program. Authors using ChemDraw should use our ChemDraw Template and submit the final files at 100% as .cdx files. All chemical compounds must be assigned a bold, Arabic numeral in the order in which the compounds are presented in the manuscript text.

(x) Tables

Tables should be labelled sequentially as Table 1, Table 2, etc. Each table should be numbered, titled and cited in the text. Reference to table footnotes should be made by using Arabic numerals. Tables should not duplicate the content of the text. They should consist of at least two columns, and each column should have a heading. Authors should ensure that the data in the tables are consistent with those cited in the relevant places in the text, totals add up correctly, and percentages have been calculated correctly. Unlike figures or images, tables may be embedded into the main manuscript file if necessary, or supplied as separate electronic files.

If a table or figure has been published before, the authors must obtain written permission to reproduce the material in

both print and electronic formats from the copyright owner and submit it with the manuscript. This also applies to quotes, illustrations and other materials taken from previously published works not in the public domain. The original source should be cited in the figure caption or table footnote.

Artwork Guidelines

Color figures

Color figures must be supplied in the following format.

Resolution	Color or Greyscale 600 dpi (dots per inch) Line art 1000 dpi
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Width	At least 4000 pixel.

Black and white images

- Image resolution of at least 600 dpi at publication size
- Images should be scanned at a minimum of 600 dpi
- During software manipulation of images, care should be taken that resolution is maintained
- Images may be rotated or scaled, but this must be the same in the x and y dimensions
- Contrast and brightness can be adjusted, but this must be uniform across the entire image, and must not result in the loss of any feature, band or spot. The background should still be visible
- If lanes are removed, and once separate parts of an image are joined together, a black, white or grey line should indicate clearly where the image was cut
- If black borders are drawn around the image, the lines should correspond to all edges where the image was cut
- Protein molecular weights or DNA fragment sizes should be indicated for all figure panels showing gel electrophoresis

Graphs, Histograms and Statistics

- Error bars must be described in the figure legend
- Axes on graphs should extend to zero, except for log axes

- Statistical analyses (including error bars and p values) should only be shown for independently repeated experiments, and must not be shown for replicates of a single experiment
- The number of times an experiment was repeated (N) must be stated in the legend

House Style

As the electronic submission will provide the basic material for typesetting, it is important that papers are prepared in the general editorial style of the journal

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6. Abbreviations should be preceded by the words for which they stand in the first instance of use and should not be used for terms used fewer than 4 times
7. Use a common word-processing package (such as Microsoft Word or LaTeX) for the text
8. If you submit raw data, this can be done in Excel, or tab/comma delimited format
9. At the first mention of a manufacturer the town, (state if USA) and country should be provided

File Formats

Please use a common word-processing package (such as Microsoft Word or LaTeX) for the preparation of the manuscript.

Supplementary information

Supplementary information is peer-reviewed material directly relevant to the conclusions of an article that cannot be included in the printed version owing to space or format constraints. It is posted on the journal's website and linked to the article when the article is published and may consist of data files, graphics, movies or extensive tables.

The article must be complete and self-explanatory without the supplementary information. Supplementary information enhances a reader's understanding of the manuscript but is not essential to that understanding.

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Please supply the supplementary information via ScholarOne, the electronic manuscript submission and tracking system of LAM, in an acceptable file format (see below).

Authors should:

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- Identify the types of files (file formats) submitted.

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- Graphical image files (.gif)
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- MPEG movie files (.mpg)
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- Plain ASCII text (.txt)

File sizes must be as small as possible, so that they can be downloaded quickly. Images should not exceed 640 x 480 pixels (approximately 23 x 17 cm at 72 dpi), and we would recommend 480 x 360 pixels as the maximum frame size for movies. We also recommend a frame rate of 15 frames per second. If applicable to the presentation of the supplementary information, use a 256-color palette. Please consider the use of lower specification for all of these points if the supplementary information can still be represented clearly. Our recommended maximum data rate is 150 KB/s.

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Please submit via e-mail to light_am@jihualab.ac.cn

Online Submission

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Authors submitting a revised manuscript after review are asked to include the following:

- (1) A rebuttal letter, indicating point-by-point how you have addressed the comments raised by the reviewers. If you disagree with any of the points raised, please provide adequate justification in your letter.
- (2) A marked-up version of the manuscript that highlights changes made in response to the reviewers' comments in order to aid the Editors and reviewers.

EDITORIAL POLICIES

Ethics Policy

A primary hub for users seeking access to the policies governing publishing ethics and scholarly communication within the LAM journal. The journal's ethics policy is rooted in the guidelines and standards established by the [Committee on Publication Ethics \(COPE\)](#). These policies encompass a range of topics, including authorship and contributorship, duplicate publication, plagiarism and fabrication, competing interests, bioethics, confidentiality, and pre-publicity. All relevant parties and individuals of LAM are expected to adhere to these foundational principles, upholding academic integrity and ethical standards

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Financial competing interests

Financial competing interests can arise from financial relationships such as employment, funding, consultancies, honoraria, stock ownership, grants, or other financial benefits related to the publication of the research.

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Light: Advanced Manufacturing invites peer-reviewers to recuse themselves in the presence of significant conflicts of interest, financial or otherwise. While financial interests do not inherently undermine article conclusions or disqualify reviewers, we request reviewers to disclose any relevant interests, including financial ones, for consideration by editors in evaluating recommendations.

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