

# Advanced Manufacturing – a multidisciplinary and open access journal

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Dear colleagues,

Welcome to the inaugural issue of *Advanced Manufacturing*, a new open-source international journal launched to meet the needs of rapid publications and high visibility in advanced manufacturing, which is intended to introduce scholarly peer-reviewed articles to everyone within the research community in a timely manner. *Advanced manufacturing* undoubtedly plays a critical role in the well-being of societies. Recent years have witnessed rapid development in various areas of advanced manufacturing and the birth of many novel processes, concepts, and systems. To widely disseminate the recent results in advanced manufacturing and to facilitate future advancement collectively, it is critical to share findings, results, and knowledge through an open-access platform. Despite many existing journals dealing with various manufacturing subjects, few are dedicated to the open-access platform.

*Advanced Manufacturing* is devoted to publishing research and technological advances in advanced manufacturing. The articles will be published online immediately upon acceptance to allow researchers to have free access to the most recent theoretical results and technological advances in the field of advanced manufacturing. In addition, the online submission and electronic peer review make the process of publishing articles simple and efficient, and there is no space constraint for the published paper.

*Advanced Manufacturing* aims to publish top-quality, peer-reviewed fundamental and applied research in the exciting and emerging fields of advanced manufacturing, which will cover the following topics (but not limited to):

- Computer-aided design and computer-aided manufacturing (e.g. CAD/CAM, CAE)
- High-Performance Computing (HPC) for modeling, simulation, and analysis
- Manufacturing systems including automation, robotics, intelligent control and monitoring systems
- Micro and nano-fabrication
- Advanced manufacturing technologies including laser processing and applications, electrical machining and mechanical machining
- Modeling techniques for manufacturing processes and systems
- 3D printing (additive manufacturing)



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- Sustainable and green technologies and processes
  - Manufacturing under extreme conditions
  - Advanced manufacturing materials
  - Industrial 4.0
  - Digital manufacturing

It will publish original research papers, surveys, letters, and book reviews to facilitate and speed up the dissemination of new theories and innovative applications for advanced manufacturing. This journal has a distinguished editorial board to maintain its high scientific standards and broad international coverage.

For the inaugural issue of this journal, I would like to invite the distinguished members of the editorial board to publish their papers in their leading research areas. This will attract the attention of many future prospective authors and readers. For detailed information on submission, please refer to the following journal website: <https://www.elsevier.com/journals/advanced-manufacturing/home>.

On behalf of the entire editorial board members and publisher, I wish *Advanced Manufacturing* the great success for years to come!

Yung C. Shin, Ph.D.

Editor-in-Chief, *Advanced Manufacturing*