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Special Issue on Semiconductor Manufacturing

The *ASME Journal of Manufacturing Science and Engineering (JMSE)* calls for Special Issue papers that advance semiconductor manufacturing. The Special Issue aims to deliver state-of-the-art findings and fundamentals of semiconductor manufacturing technology. Areas of interest include novel semiconductor manufacturing processes, manufacturing equipment development, metrology, inspection methods, and tool development, advanced packaging, process control, yield analysis and enhancement, and novel materials for semiconductor manufacturing. Papers submitted to this Special Issue should have clear relevance to semiconductor manufacturing and demonstrate practical, advanced semiconductor device fabrication. Articles will be peer-reviewed in accordance with ASME journal publication requirements.

Topic Areas

Topics to be submitted will include, but not necessarily be limited to, the following areas:

- Chemical-mechanical polishing (CMP) processes
- Novel lithography and patterning processes
- Advances in etching, plating, and thin-film deposition processes
- Metrology, inspection, and testing methods for semiconductor elements
- Novel advanced packaging and assembly methods
- Emerging semiconductor technology for sensor and device fabrication
- Semiconductor manufacturing equipment development
- Data-driven approaches toward semiconductor manufacturing

Publication Target Dates

Paper submission deadline	September 30, 2023
Review process completed	January 1, 2024
Special Issue publication date	April 2024

Submission Instructions

Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as an author to your ASME account. If you do not have an account, sign up for an account. In either case, at the **Paper Submittal** page, select the [ASME Journal of Manufacturing Science and Engineering](#) and then select the Special Issue **Semiconductor Manufacturing**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

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