

International Journal of

Abrasive Technology

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Scope of the Journal

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Abrasive technology concerns manufacturing processes involving use of abrasives in a variety of forms. It has a long history originating from the discovery of minerals. With the increasing requirements for high-precision and high-surface-quality components in various applications, (e.g. silicon wafers in the semiconductor industry and optical lenses in the precision instrument industry), abrasive technology is becoming increasingly important in precision manufacturing. IJAT deals with abrasive technology, covering theoretical and applied research, new technologies and applications. IJAT is published with support of the International Committee for Abrasive Technology (ICAT).



Topics covered include:

- Grinding, finishing, deburring, lapping, polishing, honing etc.
- Truing, dressing, ELID for grinding
- Abrasive jet machining/processing
- Abrasive flow machining
- Loose/suspended abrasive particle machining/polishing
- Hybrid super-finishing processes
- In-process measurement/monitoring
- Metrology for precision/ultra-precision machining
- Abrasives and tools, tribology
- Precision/ultra-precision and abrasive machining
- Micro-machining, super-finish/nano-surfacing
- Surface characterisation/evaluation
- Silicon wafer and brittle materials processing
- Ecological/environmentally-friendly coolants/cooling
- Teaching and learning innovations

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