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Optimal and robust design of materials involve selection of chemistry and processing for desired microstructure and targeted properties. In addition to tools and databases, uncertainty quantification is central for its broad acceptance—a topic of particular interest for this symposium.

Specific topic areas for abstract submissions include (but are not limited to):
- Computational tools for materials design
- CALPHAD (CALculation of PHAse Diagrams) and kinetics modeling
- Phase-based data repositories
- High throughput data creation, data mining, and database development
- Materials design for additive manufacturing
- Uncertainty quantification of materials design

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