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 148th Annual Meeting & Exhibition

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March 10–14, 2019
 San Antonio, Texas, USA

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ELECTRONIC MATERIALS

Solar Cell Silicon

There is an expanding interest in silicon for solar energy and electronics. The past decade has seen an unsurpassed growth in the solar industry and despite the recession, growth has continued and costs have been cut dramatically along the production value chain. The most important feedstock for crystalline solar cells is high-purity silicon. For the industry to mature and grow into green production, improvements in Si production, refining and crystallization processes, emission control, and recycling needs to be carried out.

Abstracts are being solicited for the following topics:

- Silicon feedstock production (reduction of silica and silica ores, advances in furnace design and process intensification, novel techniques of silicon production, thermodynamic and kinetic modelling)
- Silicon refining and behavior of impurities (all types of metallurgical upgrading approaches: solvent refining, slag refining, electrolysis/FCC Cambridge process, gas blowing/oxidation refining, plasma refining, vacuum refining, solidification techniques, optimization of the Siemens-like routes)
- Advanced silicon separation and all types of wafering techniques, thin flexible silicon films, interaction of materials with silicon during the processes and novelties in ingot growth)
- Life-cycle assessment of solar silicon processing
- Recycling of solar silicon components, solar cells and electronic components
- Characterization of silicon materials for solar cells

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Nearly 4,000 presentations are planned
 at more than 80 symposia at TMS2019.

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