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# **Brittle Materials in Mechanical Extremes**

Guest Editor:

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Deadline for manuscript submissions: closed (31 October 2019)

## Message from the Guest Editor

Brittle materials include a wide range of material classes: From polymers to metals, through classic glass, ceramics, and composites. They all share a supposed linear elastic behavior, but are often found to display non-linear stressstrain relationships, as well as high temperature dilation (or other properties). In this Special Issue, contributions describing and explaining this intriguing behavior, whether due to microcracking, interaction among constituent phases, or micro-structural features, are welcome. techniques, Advanced characterization challenging numerical and analytical models, as well unconventional experiments should be reported and spark the debate about the origin of the behavior of brittle materials under mechanical extremes

The grand goal is to provide an overview, through different aspects, of unconventional or unexpected reaction of brittle materials to external (mechanical, thermal, chemical, etc.) loads, at all temperatures of interest, including cryogenic.









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## **Editor-in-Chief**

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### Message from the Editor-in-Chief

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