

Guoping Bei

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Research interests:

Ceramic and ceramic composites
Crack healing materials

Oxidation behaviors of ceramic
Mechanical properties
Microstructural characterization

Design and Generic Principles of Self-Healing Materials

RECENT RESEARCH ACTIVITIES:

- Synthesis and microstructural characterization of MAX phase solid solutions in Ti-Zr-Si-C system
- Mechanical property determination of MAX phase solid solutions in Ti-Zr-Si-C system
- Oxidation behaviors and crack healing of MAX phase solid solutions in Ti-Zr-Si-C system

KEY PUBLICATIONS:

1. Bei, G. P., Greil, P., (2016): Oxidation-induced Crack Healing in MAX Phase Containing Ceramic Composites. In: Advanced Ceramic Materials. edited by Ashutosh Tiwari, Rosario A. Gerhardt, Magdalena Szutkowska, **Wiley-Scrivener Publishing**, 231-260. *(Invited book chapter)*
2. Chen X.H. and Bei G.P.*, (2017) Toughening Mechanisms in Nanolayered MAX Phase Ceramics—A Review, Materials, accepted, In press. *(Invited Featured article)*.