



**The Fifth International Conference on  
Damage Mechanics (ICDM5)**

**Date: 16th - 18th July 2025**

**Venue: National University of Singapore**

<b>Mini Symposium Title</b>	Impact Damage and Fracture of Materials and Structures
<b>Short description on the focus of the Mini Symposium</b>	<p>The mini-symposium aims to provide a platform for discussing the latest developments in the mechanical behavior and energy absorption of a wide range of engineering materials and structures subjected to high strain rate loading, including but not limited to high-speed impact, explosions, and ballistic penetration. The following topics are welcome in this session:</p> <ul style="list-style-type: none"> <li>(1) Dynamic response of foams, honeycombs and lattices;</li> <li>(2) High strain rate testing on additively-manufactured mechanical metamaterials;</li> <li>(3) Mesoscopic modeling of architected materials/structures;</li> <li>(4) Optimal design of architected materials/structures for energy absorption;</li> <li>(5) Stress wave analysis in heterogeneous materials.</li> <li>(6) Dynamic response of architected materials/structures under blast loading</li> <li>(7) Energy absorbent natural materials and bioinspired design strategies of architected materials/structures</li> </ul>
<b>Organizers</b>	<p>Jie Zhang, National University of Singapore Yilin Zhu, Southwest Petroleum University Lijun Xiao, Beijing Institute of Technology</p>