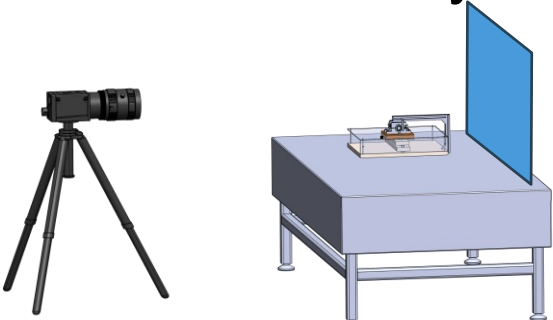


Quantification of venting behavior of cylindrical lithium-ion and sodium-ion batteries during thermal runaway

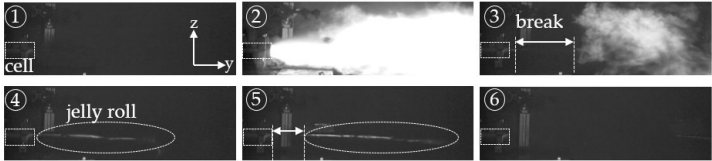


The thermal runaway behavior of cylindrical lithium-ion and sodium-ion batteries was investigated:

- Thermal runaway of cylindrical lithium-ion and sodium-ion batteries was measured
- Test bench construction for recoil force and velocity measurements is presented
- Mass flow rate using recoil force and venting velocity is estimated
- Cell surface and venting gas temperatures are measured and discussed
- Differences in thermal runaway behavior of investigated cells are discussed



Thermal runaway test bench



Screenshots extracted from high-speed video

