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X-ray and extreme ultraviolet (EUV) diagnostics of solar flare-accelerated particles

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Solar flares, which are initiated by magnetic reconnection in the solar corona, efficiently convert a large fraction of their released magnetic energy into the acceleration of particles. Recent advances using X-ray and extreme ultraviolet (EUV) diagnostics are progressing our understanding of solar flare particle acceleration processes. Such diagnostics help us to constrain the properties of solar flare-accelerated particles, understand their transport and energy deposition in the Sun's atmosphere, and investigate the role of mechanisms such as turbulence. I will discuss further advances in our understanding of these fundamental solar flare processes in the context of future missions such as Solar Orbiter.