

Supplementary Material to the paper Investigation of electrical transitions in the first steps of spark plasma sintering: effects of pre-oxidation and mechanical loading within copper granular media

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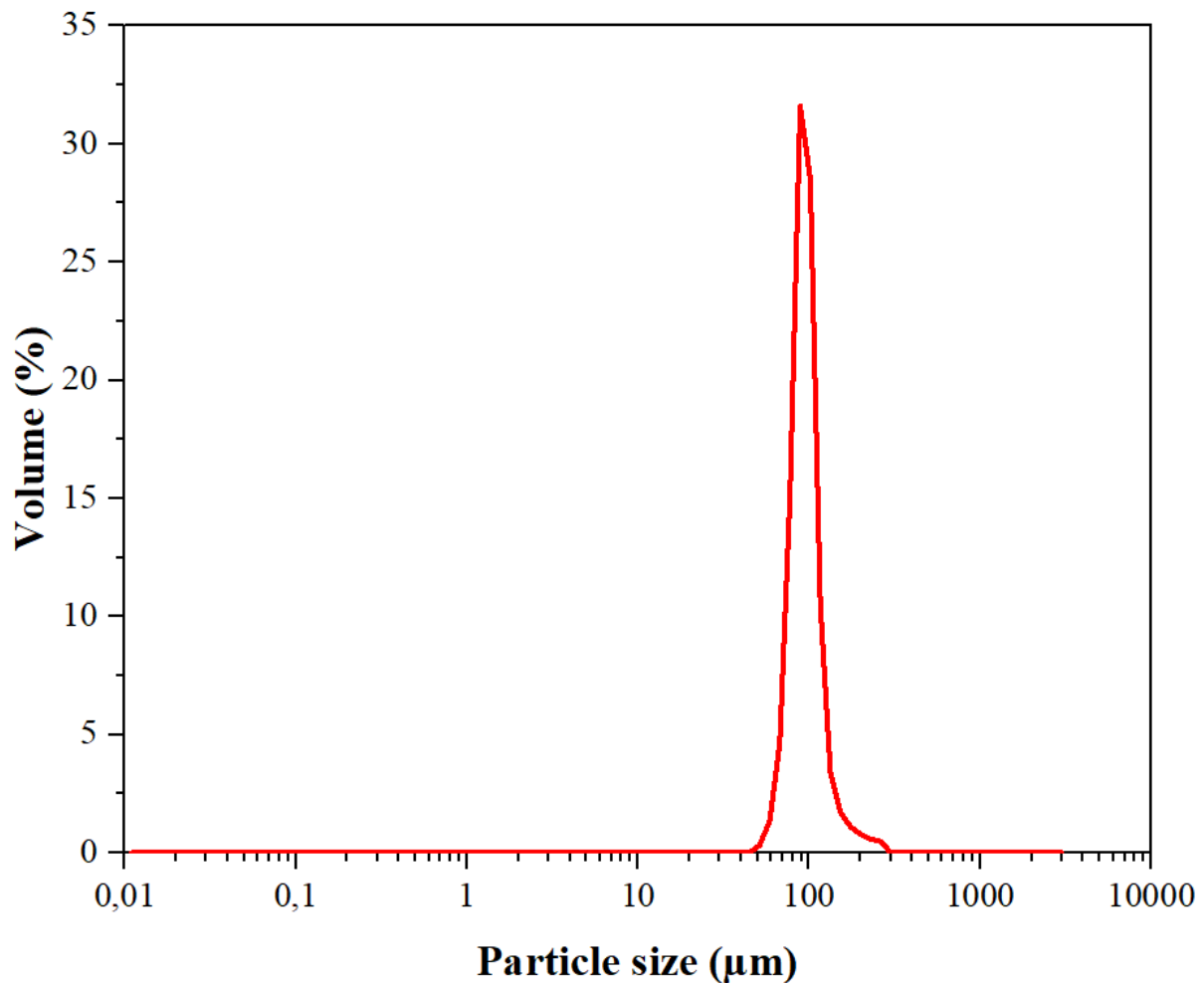


Figure S1. Particle size distribution of raw copper powder.

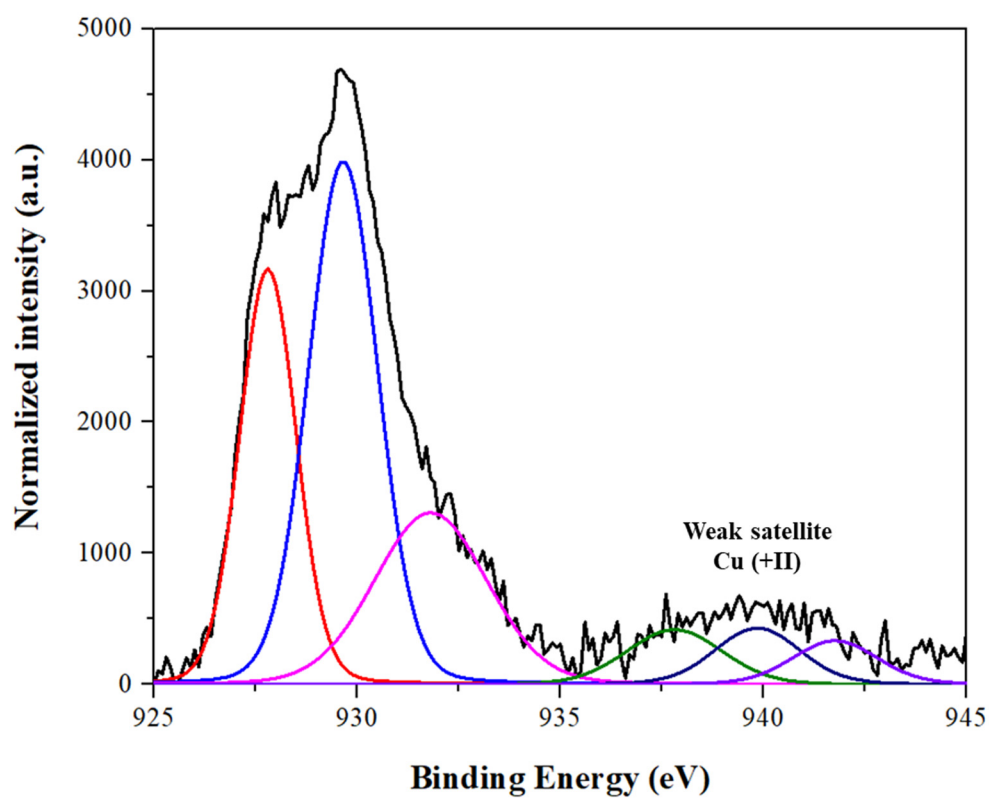


Figure S2. XPS spectrum of reduced copper powder at 400 °C.

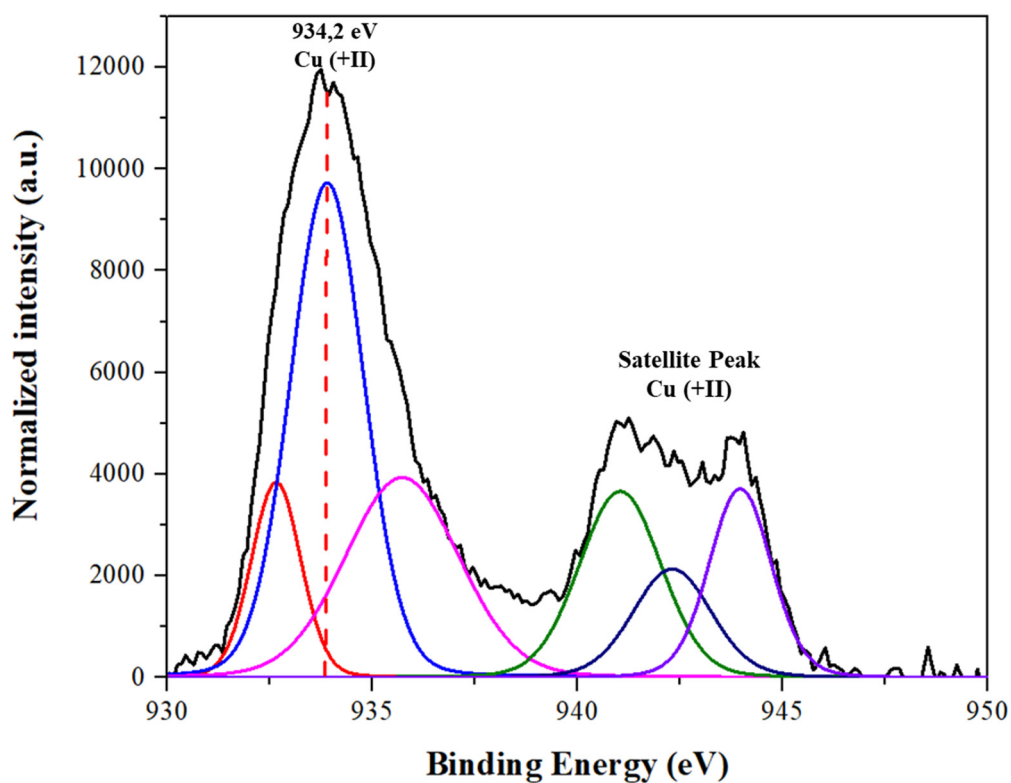


Figure S3. XPS spectrum of oxidized copper powder at 280 °C.

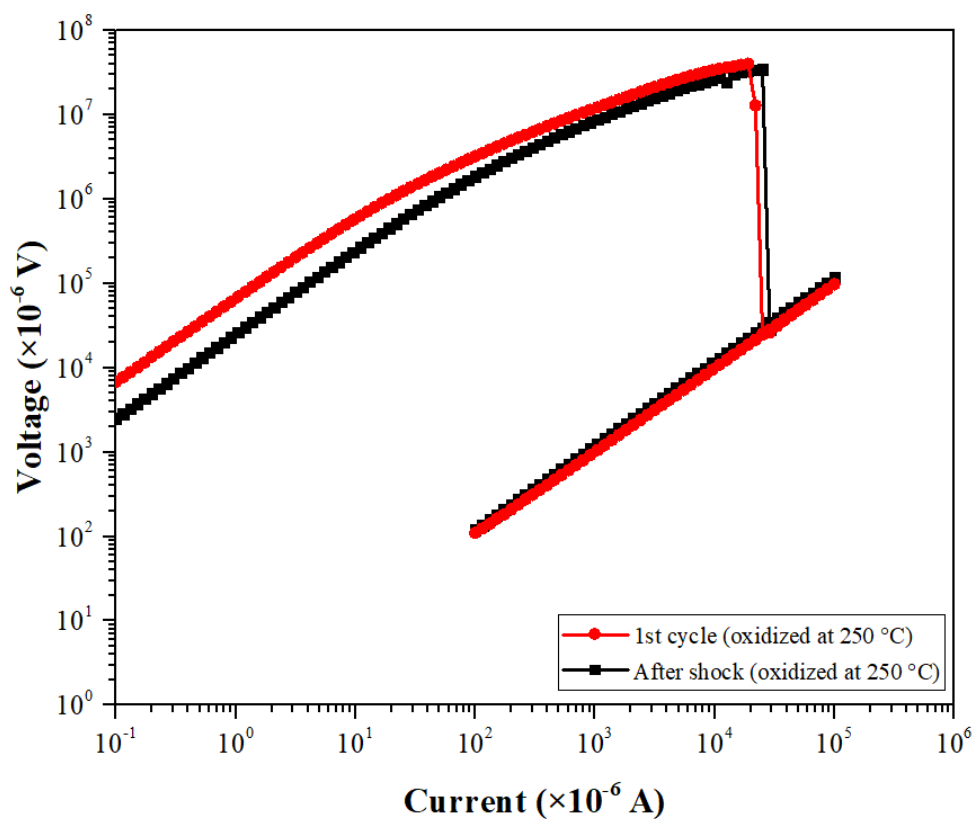


Figure S4. Typical U–I characteristics measured during current cycles up to 0.1 A for oxidized Cu powders at 250 °C before and after mechanical shock.

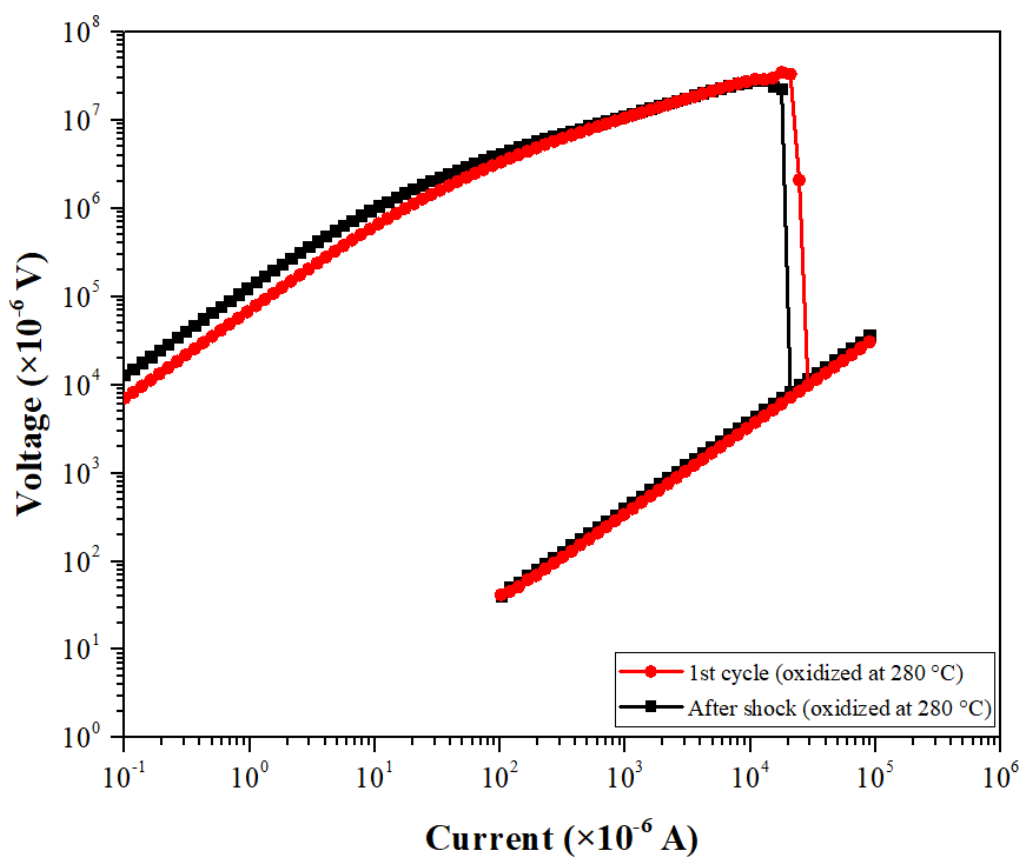


Figure S5. Typical U–I characteristics measured during current cycles up to 0.1 A for oxidized Cu powders at 280 °C before and after mechanical shock.