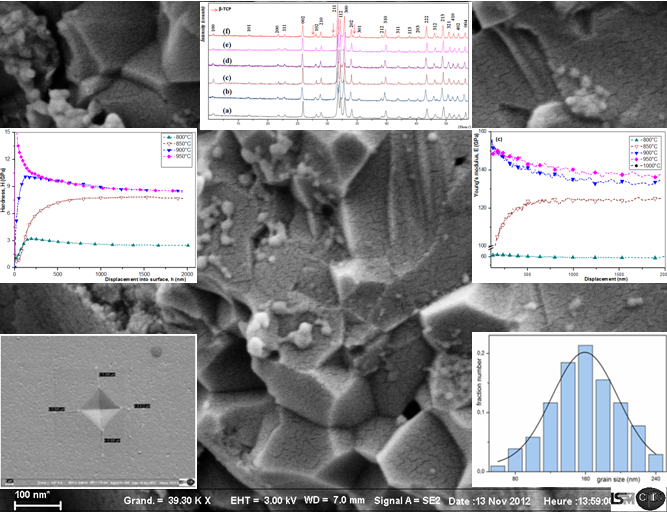
**Graphical Abstract**

**Title of article:** Improvement of the hydroxyapatite mechanical properties by spark plasma sintering

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By means of the spark plasma sintering, HA powders were sintered and the microstructure, Vickers microhardness, Young's modulus and density in relation to the sintering time and temperature are carefully described.