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## Nanoscale investigation by TEM and STEM-EELS of the laser induced yellowing

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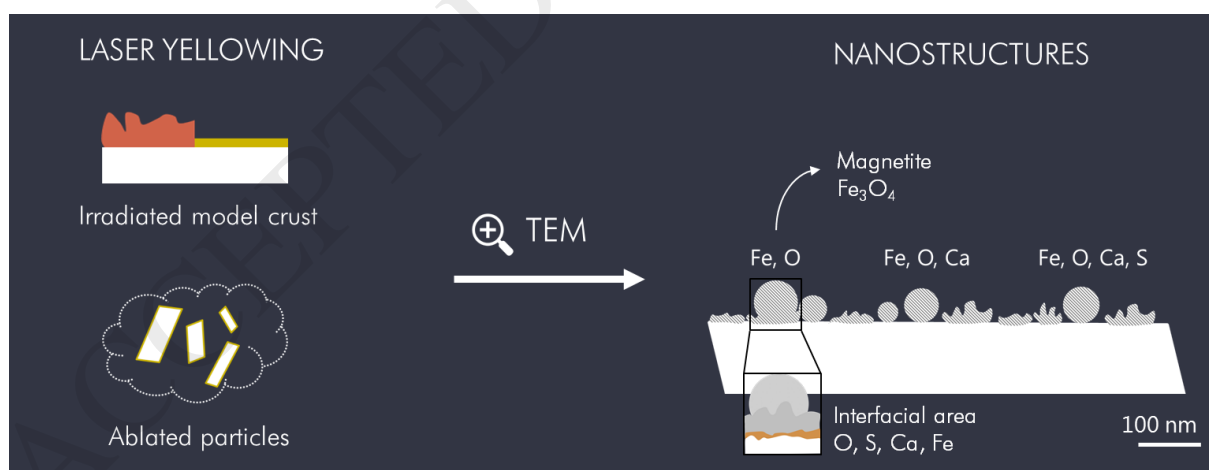
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**Declarations of interest: none**

### Graphical abstract (color)



### Highlights:

- Laser yellowing is linked to the appearance of iron-rich nanostructures
- The iron-rich nanostructures are crystallized
- Two morphologies are observed : nano-spheres and nano-residues
- The nanostructures always contain O and Fe and occasionally Ca and S

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