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Effect of phase and size on surface sites in cobalt nanoparticles

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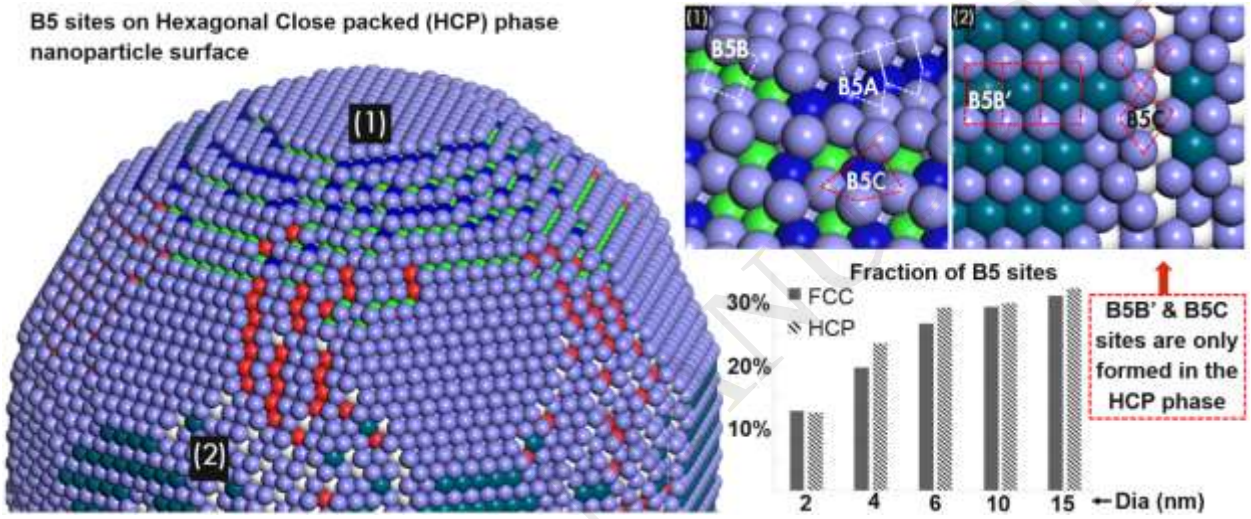
GRAPHICAL ABSTRACT



Research Highlight:

Key highlights of this work are:

1. Finite temperature only cannot explain surface reconstruction during FT synthesis
2. B5 sites manifest differently in hcp vs. fcc phase nanoparticles
3. B5 sites density increases with particle size and starts to saturate beyond 10 nm
4. Smaller particles have higher surface contraction hindering sub-surface diffusion

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