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AFM Induced Self-assembling and Self-healing Mechanism of Silicon Oxide Nanoparticle Linear Array Domains Templated on Moiré Superlattice Patterns on HOPG

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**Highlights**

- HOPG Moiré pattern templated silicon nanostripe domains were investigated.
- Self-assembly process of HOPG Moiré pattern templated silicon nanostripes domains were evidenced.
- Self-repair of defects occur on Moiré pattern templated silicon nanostripe domains were evidenced.
- It was evidenced that self- assembly and self-repair processes were triggered by rastering motion of AFM tip.

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