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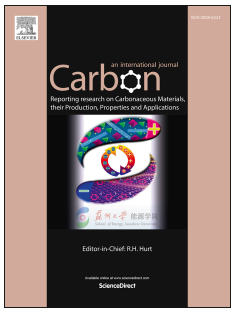

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Graphical Abstract

Nitrogen Ion Implanted Ultrananocrystalline Diamond Films: A Better Electrostatic charge Storage Medium

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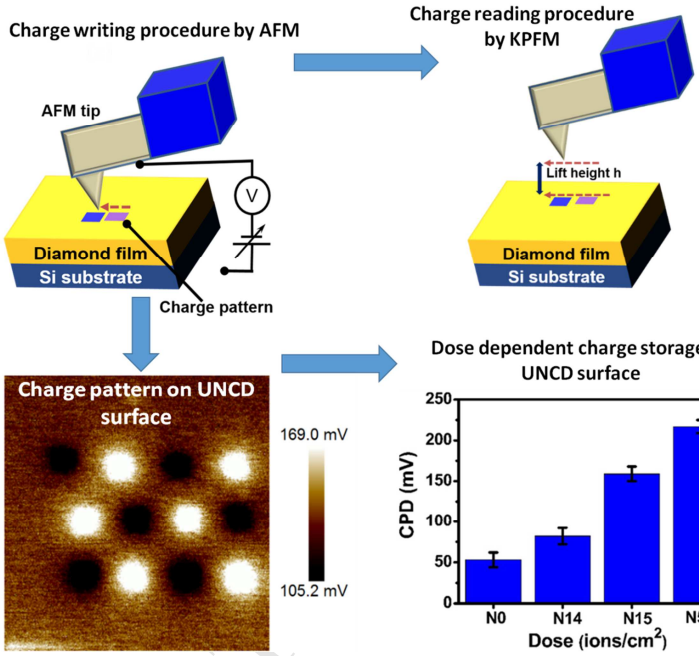

Scheme showing local charge writing procedure as performed by AFM followed by subsequent charge reading by KPFM on UNCD surface (top). The charge storage can be altered by changing the tip bias and the doping of N ion implantation (bottom).