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# Smartphone Microscope Images and Detects Next-

**Top Stories** 

### A novel smartphone-based microscope could make DNA sequence analysis much easier, faster and more readily accessible in remote locations. The device,

developed by researchers at the California NanoSystems Institute (CNSI) at UCLA and at Sweden's Stockholm University and Uppsala University, can image and analyze specific DNA sequences and genetic mutations in tumor cells without having to first extract DNA from them. Read Article (4) (f) (ii)







Generation DNA Sequencing Reactions



## researchers have developed a novel self-assembling technique, where in the past

Self-Assembling Particles Could Produce Lower Cost LEDs Self-assembling nanoscale perovskite — crystalline substances — particles could be a more efficient and lower-cost alternative material for LEDs. Princeton engineering

the inability to create uniform and bright nanoparticle perovskite films limited their potential.

Using selective laser melting (SLM), engineers are creating lightweight automotive components that boost vehicle fuel efficiency, cut noise and lessen CO<sub>2</sub> emissions.

Engineers at The University of Nottingham in England have developed the new additive manufacturing process as part of the Functional Lattices for Automotive Components (FLAC) project; the aim is to achieve significant weight reductions in



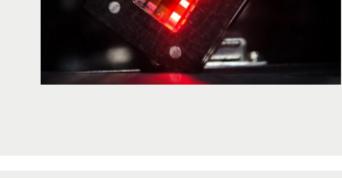
Selective Laser Melting Produces Safer Automotive

Components









new vehicle components.









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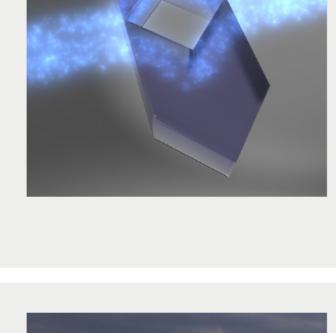


# cloaking technology possible.

Transformation Optics Conceals Objects in Diffusive

or a submarine in the sea. Both the fog and the sea serve as diffusive

environments in which light is not propagated in a straight line, which makes this



Dragonfire The UK Ministry of Defence (MoD) has awarded a £30 million (\$36 million) contract

2019.

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Environments

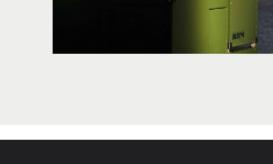




**370** 



culminating in a demonstration of a point defense system from incoming fire in



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