AN ABSTRACT ON

GRAPHENE BASED ELECTRONICS

Graphene a tightly packed, **single** layered allotropic form of carbon, first isolated and perfectly characterized in 2004 might just be the best multipurpose form of element known to man yet.

It isn’t a metal but **200 times stronger** than steel.It is **ultra-light, super flexible**. It is completely transparent and most importantly an **excellent conductor of electricity**.All these amazing properties make it way more superior to the currently used semiconductors like silicon, copper etc. and has the potential to completely replace them in the present day electronic devices.Its high conductivity and flexibility can make **foldable**, robust **mobile phones** and **flexible displays** a reality.Batteries which can be charged in a matter of seconds and last for days can be made owing to the super-high capacitive nature of graphene.

Graphene finds its use in the making of complex, intricate, electric circuits and**extremely fast transistors**thereforesignificantly helping to improve the speeds of the present computers by a factor greater than we can imagine.Graphene’s sieve type structure with super fine pores finds its application in the **purification of sea water** which is a revolutionary development for mankind.In fact, our imagination is the only limit on the applications of graphene.

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