Graphene as a potential disruptive material

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Graphene has a variety of intrinsic characteristics that make it an ideal candidate to be applied in many different fields starting from electronics, optoelectronics, energy (solar, batteries, supercapacitors), touch screen and display technology, lighting, sensors, biotechnology, and up to composites. However, to have excellent properties does not ensure a material to have a successful market uptake. There are a series of other requirements that have to be fulfilled in order for a material to become disruptive in industries and markets. A number of potential applications of graphene will be described as examples, such as flexible batteries,[1] solar cells, optical transistors,[2] and light harvesting devices.[3] In addition, graphene's prospective to become the next disruptive material will be covered.[4]

References

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