

Master Nanosciences et nanotechnologies

Hybrid Electronics 2 B

Responsable	Descriptions	Informations
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LANGUE(S) D'ENSEIGNEMENT

Anglais

CONTENU

Electronic devices have evolved from rigid, planar, and packaged formats into highly flexible, curvilinear and unpackaged physical designs. Rapid development of soft/stretchable inorganic/organic electronics, wireless communication modules, biosensors, and soft encapsulating substrates underlies this ascension in recent years. As a result, we have observed advances in system level mechanics with implications for emerging biomedical devices, human-machine interface designs, e-skins, prosthetics, surgical/nonsurgical robotics, plasmonics and flexible optical instruments for imaging and telecommunication. After more than two decades of academic and industry research, this new class of electronics is poised to have commercial impact. During this class, we will detail the different fabrication techniques, characterization and applications of this new kind of electronic devices.

VOLUME HORAIRE

- Volume total: 18 heures
- Cours magistraux: 12 heures
- Travaux dirigés: 6 heures

CODES APOGÉE

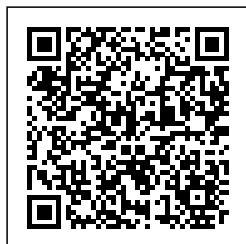
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M3C

Aucune donnée M3C trouvée

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