Unit n ℭ2 3D printing

Supplement 3

3D printing fantasy
A challenge for Prof. Chen's students

3D printing could enable the possibility to realize taylored multilayer and multifunctional "sandwich" structures with special engineering-oriented characteristics which could open new innovative applications in the medicine (diagnostics, therapy):

** long-term transdermal diagnostic sandwich patch, consisting of special or multifunctional sensor array, processor layer(s), and LED display intended for single use, tailored or in standard sizes.

** long-term transdermal therapeutic sandwich patch providing a controlled (scheduled or pulsed) release of

  ** energy (heat, photonic, electrical, … treatment)

  ** drugs [32] (?+ energy + information?)

  ** ?information? (esp. start or stop signals for biochemical processes, …), intended for single use, tailored or in standard sizes.

** long-term dermal therapeutic sandwich patch providing a controlled (scheduled or pulsed) release of dito

  ** main target ?malignant melanoma? [33].

Never forget:

The dreams, the SF of today, maybe, are tomorrow's reality.

References

[32] https://en.wikipedia.org/wiki/Transdermal_patch
[33] https://en.wikipedia.org/wiki/Melanoma

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