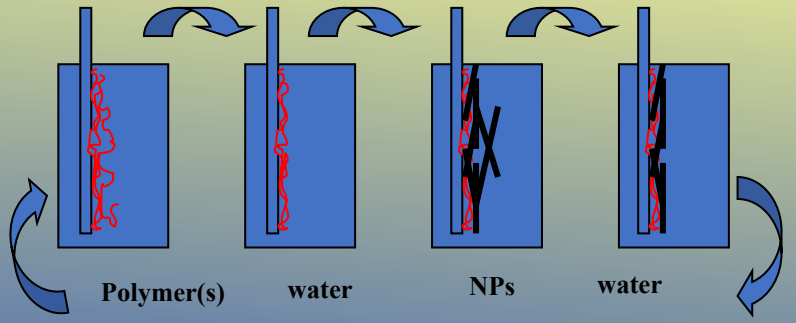
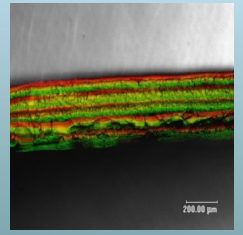
KOTOV: Biomimetic Nanostructures

Biomimetic Composites

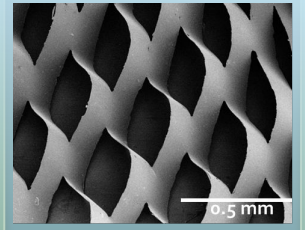
Layer-by-layer assembly (LBL/LbL)



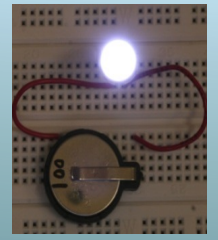
High Performance Composites



Composite Kirigami LIDARs



Batteries



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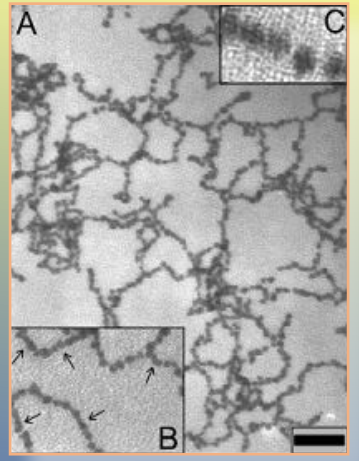
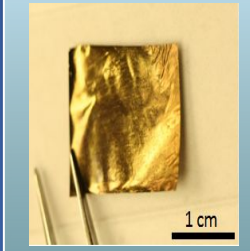
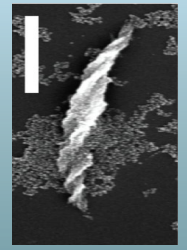
Biomimetic Nanoparticles



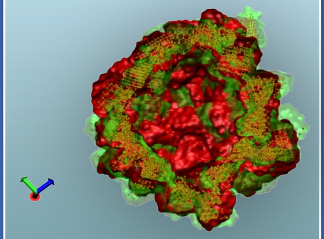
Nanoparticle Composites



Chiral Nanostructures



Biomimetic Cascade Catalysis



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'Bulletproof' battery: Uses Kevlar as an insulator

New battery technology developed in Nick Kotov's lab, made with nanofibers extracted from Kevlar, stifles the growth of metal tendrils that can become unwanted pathways for electrical current.