Yu Shuhong has been engaged in inorganic synthesis and biomimetic materials research. He has made a series of original achievements in the field of design, preparation and applications of bio-inspired engineering materials, laying a solid foundation for creation of practical bio-inspired structural functional materials and their applications.

A synthesis method called mesoscale "assembly and mineralization" was successfully established and the synthetic nacre was successfully mineralized for the first time, which solves this world-recognized problem. The lightweight and high-strength artificial wood with excellent heat insulation and fire prevention performance was created. The related research work was highlighted by the scientific media Science News and Scientific American. He explored the research on the preparation and functionalization of macroscale nanoassemblies with great potential applications. The massive production of various nanoscale building blocks and their assemblies have been successfully achieved by his team.

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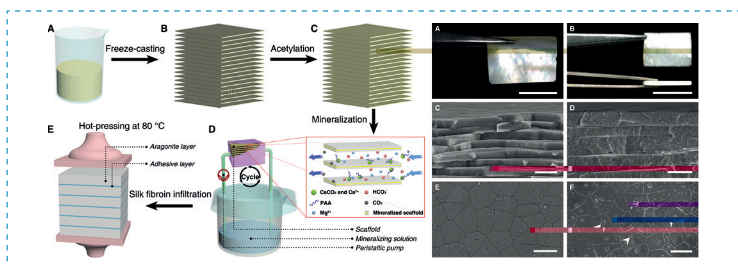
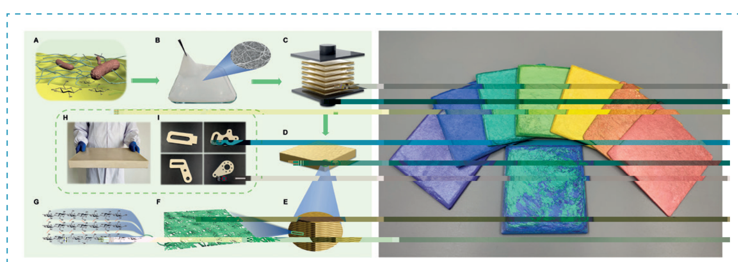
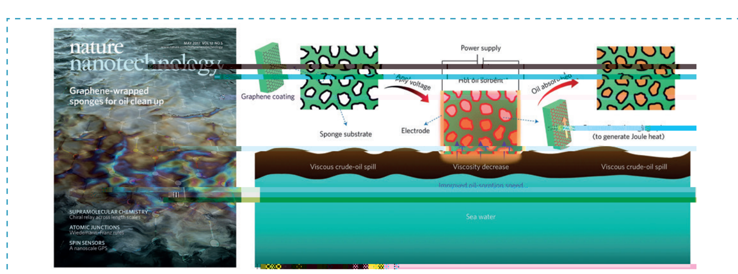
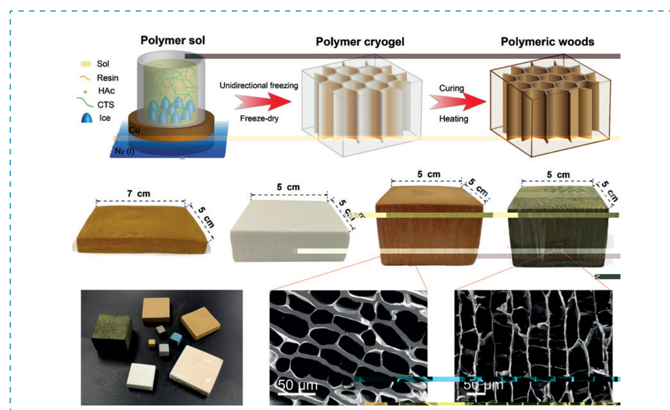


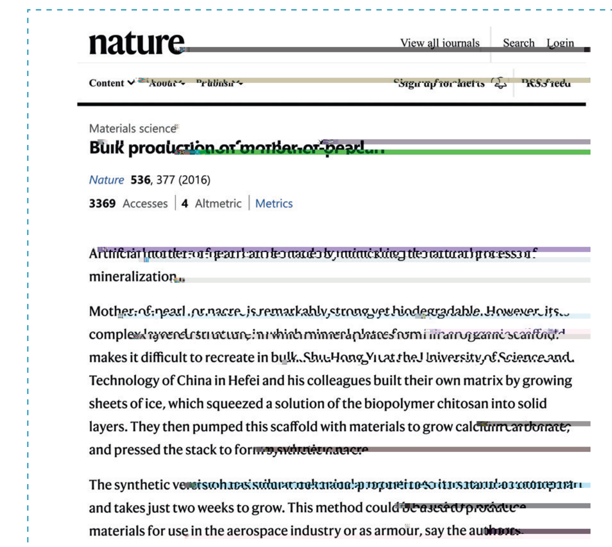






Artificial wood.

"This synthetic wood is as strong as the real thing—and won't catch fire"-Science News highlights the work of artificial wood.



"Artificial Wood"-Scientific American highlighted the work

lacks its standard vulnerabilities to fire and water".