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nanoHUB-U offers five-week and self-paced courses

A five-week course on the science of materials at the nanoscale will be taught online by Professor of Materials Engineering Alejandro Strachan at Purdue University, starting May 13.

Alejandro Strachan



"Predicting materials from first principles remains very challenging, whether the application is large-scale, structural material in a jet or a microelectronics application where materials can be only a

few atoms thick," Strachan says. "We will study the basic physics complemented by simulations that allow us to make these predictions and develop an intuitive understanding of how materials look and work at atomic scales."

Like the other six courses offered by nanoHUB-U, this course will offer an in-depth treatment of the basic science, yet it is designed to be accessible to learners from any branch of science or engineering.

Self-paced online courses are being offered on the fundamentals of atomic force microscopy, fundamentals of nanoelectronics, nanoscale transistors, and thermal energy at the nanoscale. Students registered in self-paced courses have 12 months to complete them and earn a certificate of completion and digital badge.

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TRY A NEW TOOL

Exciton Annihilation Simulator

The software simulates the creation of excitons when light is absorbed by a semiconducting polymer film and subsequent mechanisms. Michael Heiber of the University of Akron developed the tool to model experimental data and extract an estimate for the exciton delocalization radius of the material being tested. [Read more](#)

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