

Publishing Digital Assets

Michael McLennan

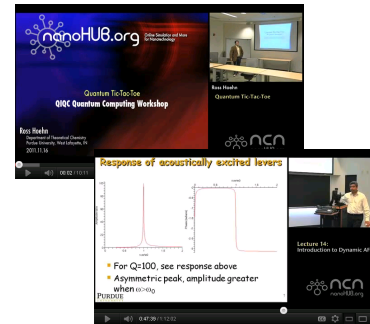
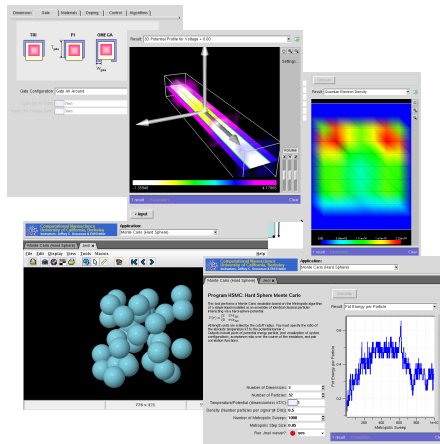
Director, HUBzero® Platform for Scientific Collaboration

Purdue University

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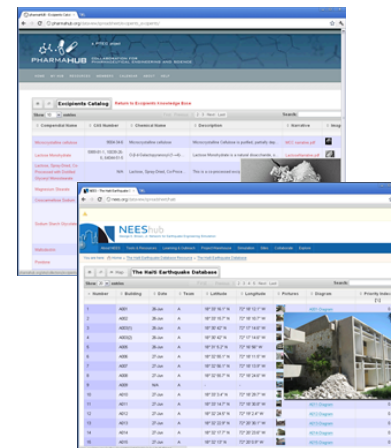
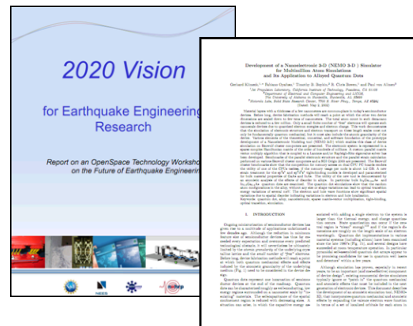


Simulation & Modeling Tools



Seminars
Tutorials

Tech Reports
Teaching Materials



Data from
Experiments



"Resource" = Digital Publication

http://nanohub.org/tools/cntbands-ext



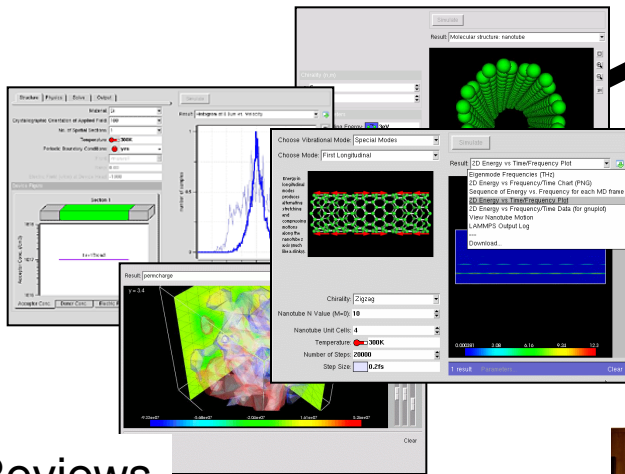
The screenshot shows the nanoHUB.org interface for the 'CNTbands' tool. Annotations point to various elements:

- Title:** CNTbands
- Authors:** By Gyungseon Seo¹, Youngki Yoon¹, James K Fodor¹, Jing Guo¹, Akira Matsudaira², Diego Kienle², Gengchao Liang², Gerhard Klimeck², Mark Lundstrom², Ahmed Ibrahim Saeed³
- Pictures:** A carousel of images showing the tool's interface and simulation results.
- Abstract:** CNTbands can simulate electronic band structure and density of states for carbon nanotubes (CNT), as well as graphene nanoribbons (GNR). It also computes some basic parameters, such as nanotube diameter, number of hexagons in the unit cell, and band gap. Users may select the GNR structure to be simulated by selecting a starting point and components for...
- Metrics:** 9.1 RANKING, Easy-Expert, NCN Supported, 4150 users, detailed usage, 15 Citation(s), 13 questions (Ask a question), 4 review(s) (Review this), 3 wish(es) (Add a new wish).
- Related:**
 - Part of: NCN Nanoelectronics: Simulation Tools for Education
 - Part of: NCN Nanoelectronics: Simulation Tools for Research
 - RECOMMENDATIONS: Introduction to CNTbands, CNTbands Download, CNTbands, CNTbands: First-Time User Guide

Using Tags to Categorize Content



Tools



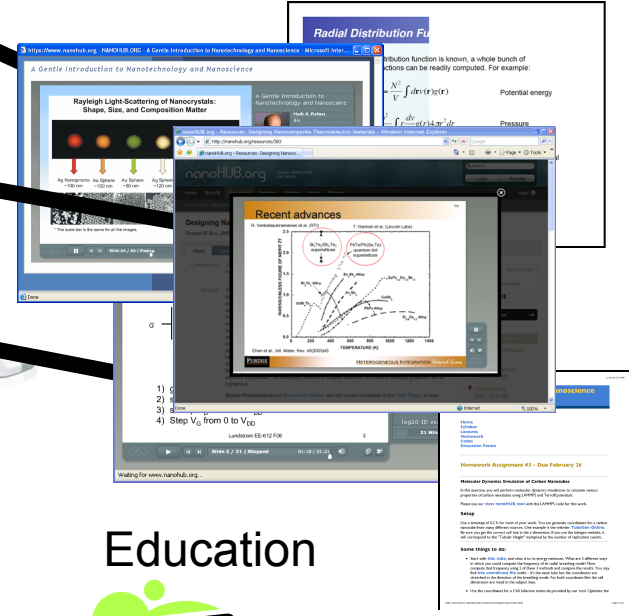
Tags

carbon nanotubes

energy conversion

nanoelectronics

Supporting Resources



Reviews

★★★★ James K Fodor said:
26 Jan, 2006 10:24 AM
This is a great learning module. Simply because it would help

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It's an excellen

Research

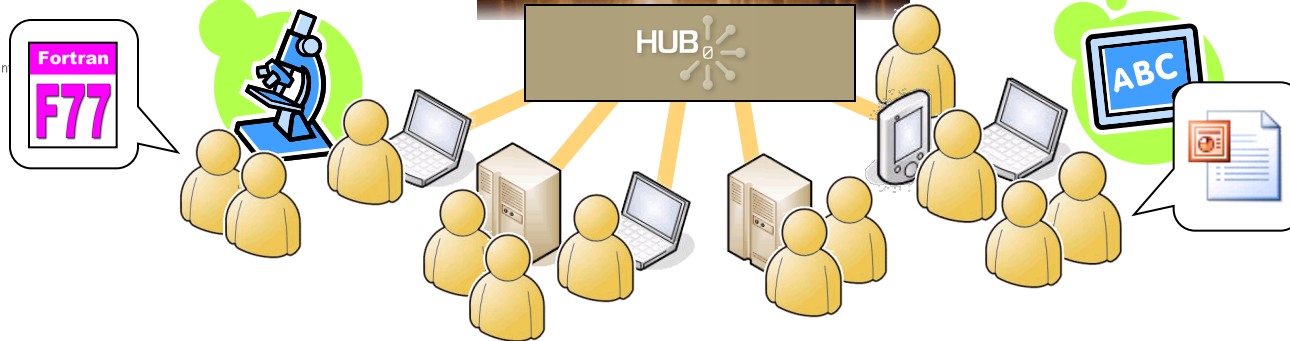


Education

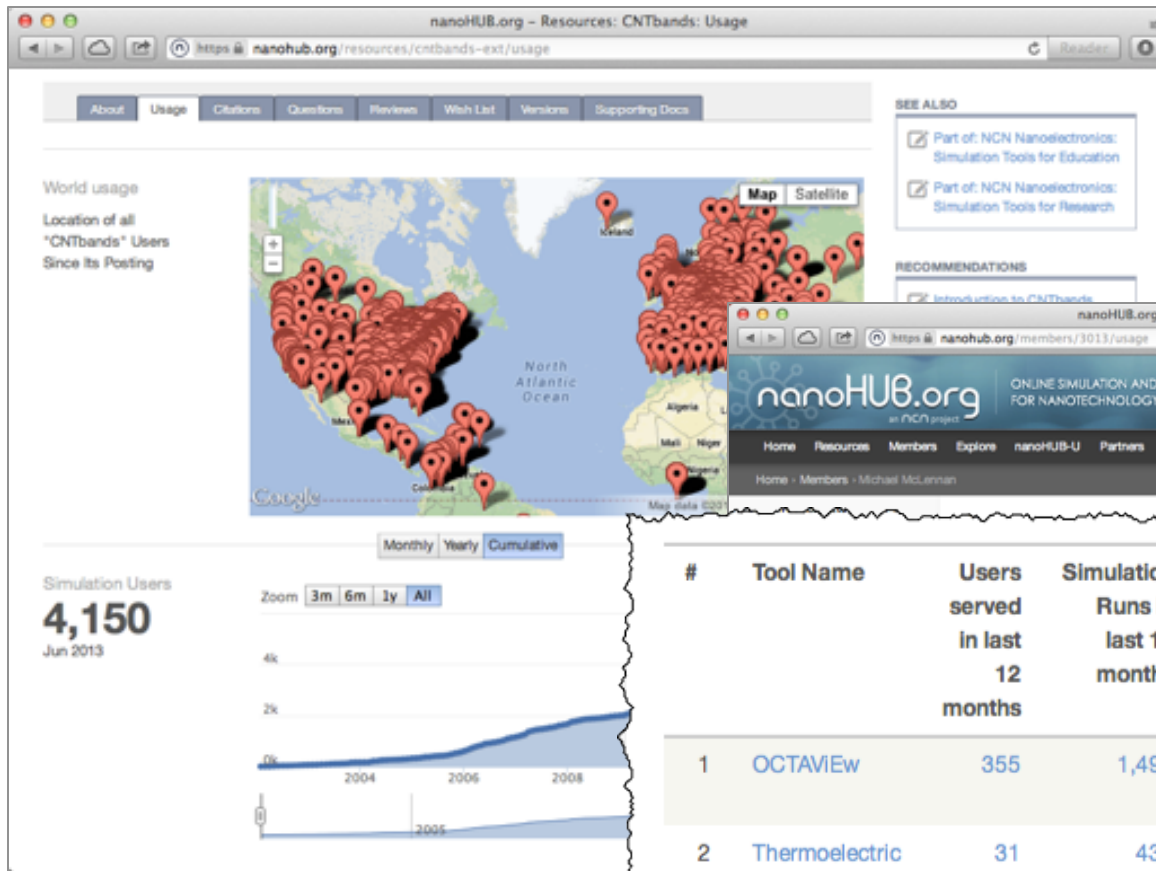
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Analytics to Study Impact



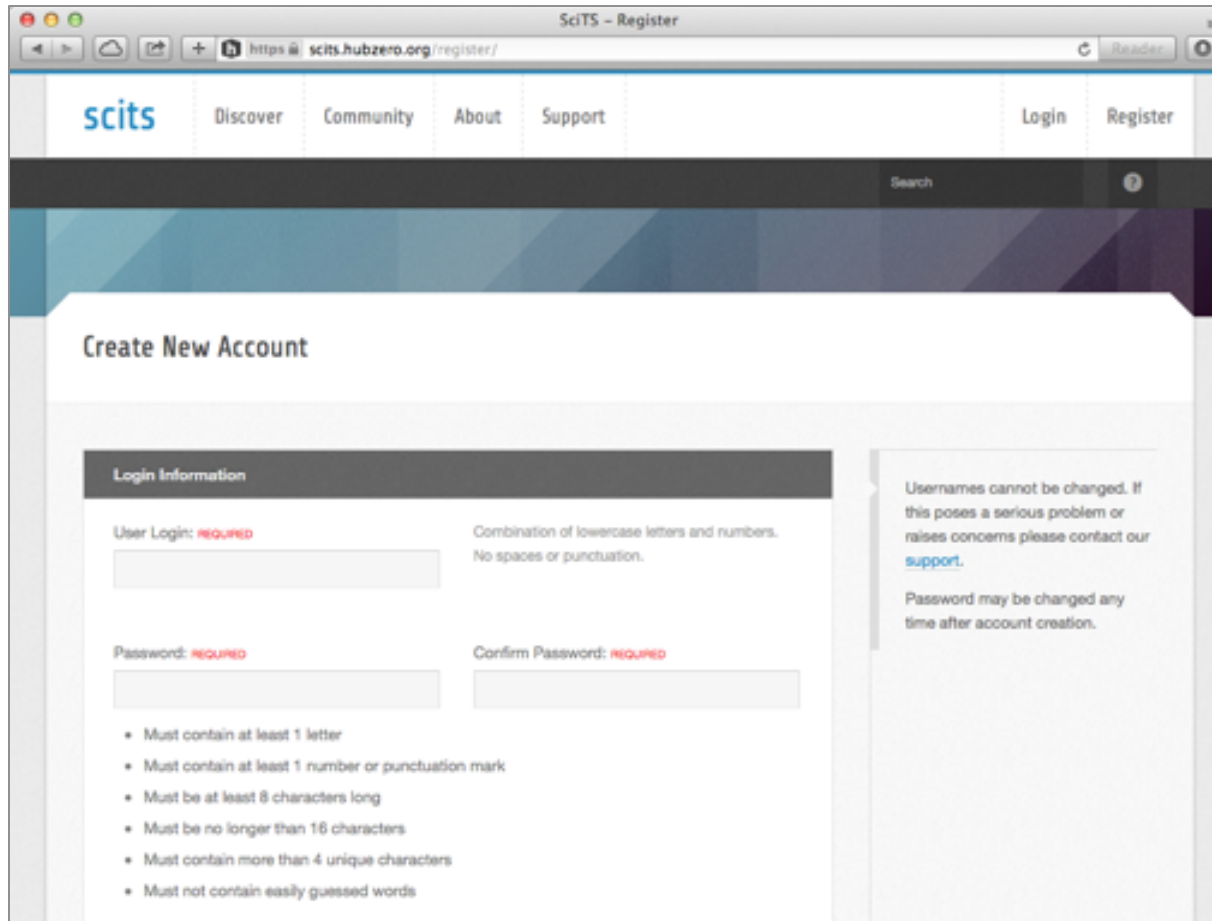
Resource usage metrics

Contributor impact

#	Tool Name	Users served in last 12 months	Simulation Runs in last 12 months	Total users served	Total Simulation Runs	Citations	Published On
1	OCTAVIEW	355	1,495	527	2,726	-	15 Feb 2012
2	Thermoelectric Generator Module with Convective Heat Transfer	31	433	116	1,413	1	12 Jul 2010

total	3,106	48,719	14,069	424,012
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Create an account and log in: scits.hubzero.org



The screenshot shows a web browser window titled "SciTS - Register" with the URL "https://scits.hubzero.org/register/". The page features a navigation bar with "scits" logo and links for "Discover", "Community", "About", "Support", "Login", and "Register". A search bar is also present. The main content area is titled "Create New Account" and contains a "Login Information" section with the following fields and instructions:

- User Login:** REQUIRED. Combination of lowercase letters and numbers. No spaces or punctuation.
- Password:** REQUIRED. Must contain at least 1 letter, at least 1 number or punctuation mark, be at least 8 characters long, no longer than 16 characters, contain more than 4 unique characters, and not contain easily guessed words.
- Confirm Password:** REQUIRED.

Additional information on the right side of the form states: "Usernames cannot be changed. If this poses a serious problem or raises concerns please contact our [support](#). Password may be changed any time after account creation."