

Resource Summary Report

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[nanoHUB](#)

RRID:SCR_013963

Type: Tool

Proper Citation

nanoHUB (RRID:SCR_013963)

Resource Information

URL: <https://nanohub.org>

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Description: A portal which provides simulation programs for nanoscale phenomena, online presentations, courses, learning modules, podcasts, animations, and teaching materials. Researchers can also collaborate with others and publish content.

Resource Type: data or information resource, portal

Keywords: portal, nanotechnology, simulation program, educational material

Funding: NSF EEC-0228390;
NSF EEC-0634750;
NMI NSF OCI-0438246;
SDCI NSF OCI-0721680;
NSF OCI-0944665;
NSF OCI-0749140;
NSF EEC-1227020

Availability: Free, Public

Resource Name: nanoHUB

Resource ID: SCR_013963

License: Simulation tools can be made available online through nanoHUB.org's unique middleware. As such, the source code for your tool can be completely protected, and may not require any license. We strongly encourage contributors of online presentations, teaching materials, animations, and other materials to adopt the Creative Commons 2.5 license.

License URLs: <https://nanohub.org/legal/terms>

Record Creation Time: 20220129T080318+0000

Record Last Update: 20260829T182843+0000

Ratings and Alerts

No rating or validation information has been found for nanoHUB.

No alerts have been found for nanoHUB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 24 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Johnson JAI, et al. (2025) Human interpretable grammar encodes multicellular systems biology models to democratize virtual cell laboratories. *Cell*, 188(17), 4711.

Zhao G, et al. (2025) A Universal Implementation Approach for Multivalued Logic Gates Based on Negative Transconductance in Series-Connected Two-Dimensional Transistors. *ACS nano*, 19(27), 24961.

Metzcar J, et al. (2025) A Simple Framework for Agent-Based Modeling with Extracellular Matrix. *Bulletin of mathematical biology*, 87(3), 43.

De Giorgi A, et al. (2024) Diffusion of curcumin in PLGA-based carriers for drug delivery: a molecular dynamics study. *Journal of molecular modeling*, 30(7), 219.

Singh AV, et al. (2023) Artificial intelligence and machine learning disciplines with the potential to improve the nanotoxicology and nanomedicine fields: a comprehensive review. *Archives of toxicology*, 97(4), 963.

Nykiel K, et al. (2023) High-throughput density functional theory screening of double transition metal MXene precursors. *Scientific data*, 10(1), 827.

Luo L, et al. (2023) DNA nanopores as artificial membrane channels for bioprotonics. *Nature communications*, 14(1), 5364.

Bardhan N, et al. (2022) Nanomaterials in diagnostics, imaging and delivery: Applications from COVID-19 to cancer. *MRS communications*, 12(6), 1119.

McJunkin T, et al. (2022) SiGe quantum wells with oscillating Ge concentrations for quantum dot qubits. *Nature communications*, 13(1), 7777.

Hunt M, et al. (2022) Sim2Ls: FAIR simulation workflows and data. PloS one, 17(3), e0264492.

Sahu TK, et al. (2022) 2+??-Dimensional Materials via Atomistic Z-Welding. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 9(32), e2202695.

Wang Y, et al. (2021) Impact of tumor-parenchyma biomechanics on liver metastatic progression: a multi-model approach. Scientific reports, 11(1), 1710.

Dobson Z, et al. (2021) The structure of photosystem I from a high-light-tolerant cyanobacteria. eLife, 10.

Getz M, et al. (2021) Iterative community-driven development of a SARS-CoV-2 tissue simulator. bioRxiv : the preprint server for biology.

Yadav RD, et al. (2021) Nano-bio surface interactions, cellular internalisation in cancer cells and e-data portals of nanomaterials: A review. IET nanobiotechnology, 15(6), 519.

Mai Z, et al. (2021) Nematic Order, Plasmonic Switching and Self-Patterning of Colloidal Gold Bipyramids. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 8(22), e2102854.

Rocha HL, et al. (2021) A persistent invasive phenotype in post-hypoxic tumor cells is revealed by fate mapping and computational modeling. iScience, 24(9), 102935.

Kochev N, et al. (2020) Your Spreadsheets Can Be FAIR: A Tool and FAIRification Workflow for the eNanoMapper Database. Nanomaterials (Basel, Switzerland), 10(10).

Voisin B, et al. (2020) Valley interference and spin exchange at the atomic scale in silicon. Nature communications, 11(1), 6124.

Yan X, et al. (2020) Construction of a web-based nanomaterial database by big data curation and modeling friendly nanostructure annotations. Nature communications, 11(1), 2519.