Resource Summary Report

Generated by NIF on Apr 23, 2025

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: 20250422T055751+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 19 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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.

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

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

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

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.

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.

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.

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.

Radosinski L, et al. (2019) Development and Validation of a Virtual Gelatin Model Using Molecular Modeling Computational Tools. Molecules (Basel, Switzerland), 24(18).

Almeida VM, et al. (2018) Search for independent (?/?)4 subdomains in a (?/?)8 barrel ?-glucosidase. PloS one, 13(1), e0191282.

Karcher S, et al. (2018) Integration among databases and data sets to support productive nanotechnology: Challenges and recommendations. NanoImpact, 9, 85.

Catlin AC, et al. (2015) Sankofa pediatric HIV disclosure intervention cyber data management: building capacity in a resource-limited setting and ensuring data quality. AIDS care, 27 Suppl 1(sup1), 99.