About us

Development of user-friendly software for the simulation of electronic and optoelectronic semiconductor nanodevices such as LEDs, VCSELs, quantum cascade lasers, solar cells, infrared detectors, resonant tunneling diodes, quantum dots, nanowires, nanotransistors, HEMTs, qubits and biosensors.

nextnano GmbH is a spin-off from the Walter Schottky Institute of the Technische Universität München.

Due to the scaling of semiconductor electronics, quantum physical effects are gaining importance and are fundamentally challenging the design of new devices.

Advantages

Our customers benefit from
• faster and cheaper development
• better understanding of device physics
• systematically improving & optimizing devices
  ⇒ less redesign cycles

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Software for simulation of electronic and optoelectronic semiconductor nanodevices

SCAN ME
Get a free test license

www.nextnano.com
The digital twin for the simulation of your semiconductor nanodevices

Quantum transport calculations using nonequilibrium Green’s functions (NEGF)

nextnano
Software for semiconductor nanodevices

Custom-made Devices

You wish to create something new? Our software supports any desired structure and material combination in 1D, 2D & 3D, including a database for all group IV, III-V and II-VI semiconductors (zincblende and wurzite).

Calculation

You decide what you need! Strain, piezo & pyroelectricity, Schrödinger-Poisson-Current solver, multi-band k·p, quantum transport (NEGF), electric and magnetic fields, ...

Visualization

Numerous file formats and export options enable perfect integration into your individual postprocessing workflow. Built-in features to directly visualize the results enhance fast data analysis.

Give it a go! Get your free test license at www.nextnano.com!