

nextnano

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nextnano - semiconductor software solutions

nextnano develops software for the simulation of electronic and optoelectronic semiconductor nano devices and materials including semiconductor-electrolyte systems that are used for bio chip applications.

Our customers are the research labs of the leading semiconductor companies in the electronic and optoelectronic sector as well as academic institutions.

Applications include quantum wells, quantum wires, quantum dots, nanowires, nanocrystals, quantum cascade lasers (QCL), resonant tunneling diodes (RTD), high electron mobility transistors (HEMT), Nano-MOSFETs, LEDs, lasers (e.g. VCSEL), efficient solar cells, organic semiconductors, ion-sensitive field effect transistors (ISFET) and new materials like graphene, “strained silicon” or “diluted nitrides”. We are also very active in new disruptive fields like spintronics and quantum computing.

Our unique selling proposition is a better physical method for the calculation of the quantum mechanical properties of an arbitrary combination of geometries and materials, i.e. the nextnano software is not limited to certain types of devices and thus perfectly suited for both, currently existing and novel devices, like for instance protein sensors (bio chips).

The customers' benefits are

- better understanding of device physics
- systematically improve and optimize devices
- less redesign cycles (optimum prototype).

Customer feedback

“One reason that the nextnano software is so good at nanoelectronics is that it was not designed for nanoelectronics. It was designed to do physics.”

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