Nanomatch
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Virtual Design of Materials and computer aided device optimization for Organic Electronics

→ Nanomatch Introduction Video

Nanomatch provides the first **parameter-free**, **easy-to-use** and **flexible** tool for virtual design in organic electronics. Our software stack generates a complete **digital twin** of your device in the computer, including all relevant physical effects on several time and length scales. Unlike existing software packages, our tool therefore allows our customers, developers of OE materials and devices around the world, to reliably **predict device properties** on the basis of single molecules, **screen candidates** for potential OE materials, optimize device layer setups and **identify bottlenecks** in device performance on the microscopic level.

The complexity of the individual modules, the interface between multiple modules and communication to remote high performance computing resources are handled automatically by the graphical workflow environment, rendering the formerly complex and demanding execution of such calculations feasible and scalable for researchers in industry, independent of their background, with minimal training. This enables you to incorporate computer aided design into your R&D process without disclosing IP of any kind to third parties.

Nanomatch services include:

- Development of custom-tailored modeling solutions based on the Nanomatch Software Stack
- Training in Nanomatch Software
- Technical support and software adaption

This combination enables our customers to boost their R&D by optimally exploiting the possibilities of virtual design in organic electronics.

Use cases for our Software will be available online soon at www.nanomatch.com