ARGONNE DESIGN WORKS

Argonne NATIONAL LABORATORY

INDUSTRY'S CONTACT FOR EMERGING TECH, LEADING R&D TOOLS, AND EXPERTS

NDW connects you to nanotechnology and materials research experts and R&D tools spanning the entire campus of Argonne so that you can develop new technologies and improve existing ones.

New materials with novel properties and improved efficiency derived from expertise in synthesis, characterization, predictive modeling, and fabrication.

Nano Design Works gives companies and entrepreneurs the solutions that enable technological innovations that save money, increase efficiencies, and create products that transform industries.

Unique tools and world-leading expertise provide an unparalleled advantage to NDW's industrial collaborators, which helps them innovate more, do so more quickly, and get a better return on investment.

NDW is the single point of contact for industry and entrepreneurs to harness the power of the national laboratory system and 1,400 of the brightest minds in engineering, chemistry, computing, materials science, and biology.

NDW knows the correct questions to ask, the correct tools to use, and the best way to combine advances in research to optimize product performance and drive innovation. NDW does this by drawing on more than half a century of experience at the leading edge of research and a cadre of interdisciplinary teams.

With NDW as your guide, you can focus on your technological challenge a host of tools all in one location:

NDW specializes in growing emerging technology across the scientific spectrum, including:

- **Additive manufacturing**
- **Next-generation electronics**
- **Coatings and membranes**
- **Sensors and detectors**

- Multi-million dollar scientific user facilities specializing in X-ray imaging, high-performance computing, and nanomaterial;
- Best-in-class facilities for materials synthesis, characterization, predictive modeling, and fabrication;
- Prototyping, verification, and scale-up facilities; and
- A host of early-stage technology that can be developed to meet company and consumer needs.

NDW provides answers, not just data. NDW uses information gained at the nanoscale of real products—under real operating conditions—combined with computer modeling and simulations. This lets you take the guesswork out of product development and spend time and money fabricating for further testing only the prototype designs that have the highest probability of success.

NDW's unique ability to acquire the world's best direct visualization of structures and behaviors at the nanoscale and mesoscale lets researchers:

- Make changes at the building block level that engineer away defects and optimize material and chemical properties to bring out new high-performance traits.
- Build better tests to predict failure circumstances and estimate material lifespans.
- Design catalyst structures and reactions to reduce production steps and waste products.

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