

Materials Design and Manufacturing Intelligence

Developers face rising pressure to bring novel, high performance materials and parts to market faster and cheaper. Yet, most materials fail to meet commercial expectations, and lengthy timelines limit attractiveness to investors. On average, materials R&D takes as long today as it did decades ago. Now, emerging design and manufacturing tools such as 3D printing, 3D scanning, material informatics software, modeling and simulation software, automated equipment, and robotics are beginning to accelerate materials and part design times. These same innovations have are further beginning to reshape industries and up-end traditional business models.

- > Stay on top of rapidly evolving technology
- > Accurately match material properties and costs to target applications
- > Assess a wide variety of companies, both established and emerging
- > Navigate a crowded intellectual landscape
- > Monitor innovations emerging around the globe
- > Understand how competing technologies stack up

Intelligence Access

For more information on how to access the Lux Materials Design and Manufacturing Intelligence service, contact your Lux Research account manager, or call +1-888-589-7373 or +1-617-502-5300. Send email to info@luxresearchinc.com. Visit us on the web at www.luxresearchinc.com.

Lux Research Difference

The Lux Materials Design and Manufacturing Intelligence service is unique because it is:

Proprietary

Offers exclusive insights from primary interviews and site visits

Opinionated

Makes decisive calls about companies and technologies

Unbiased

Obtains objective/independent information and delivers impartial analysis

Confidential

Allows clients to secure information about innovators without revealing their identities

Cost-effective

Costs far less than expensive consultants or a resource-intensive internal team

Sample Materials Design and Manufacturing Topics

Technologies

- > Additive manufacturing (3D printing)
- > 3D scanning
- > Materials informatics
- > Multiscale modeling
- > Finite element analysis
- > Materials-driven system design
- > Building information modeling
- > VR for design simulation
- > AR for work optimization
- > Novel production methods

Applications

- > Part prototyping, tooling, and manufacturing using 3D printing
- > Part design optimization
- > Distributed manufacturing
- > Materials discovery and selection using artificial intelligence
- > Saving labor cost
- > Shortening project period
- > Enhancing design flexibility and efficiency
- > Improving design and simulation

Companies

- > Alphastar
- > Carbon
- > Citrine Informatics
- > Construction Robotics
- > Contour Crafting
- > Fabrisonic
- > Kymeta
- > Matterport
- > Norsk Titanium
- > Oxford Performance Materials
- > ZenRobotics

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Research Membership Access

Lux Research members get on-demand access to Lux’s analysts, publications, and data across a set of emerging technology domains customized to their needs. Analysts with deep expertise in each domain provide ongoing market intelligence and technology scouting to help executives find new business opportunities and make better decisions.

Membership Benefits

Executive Sessions

Lux Research analysts regularly structure and deliver Executive Sessions – typically half-day to full-day onsite interactive meetings, which are a combination of Lux Research presentations and working sessions – that allow clients to tap more deeply into Lux data, methodologies, and insight.

Member Site

Lux Research’s ongoing series of Company Profiles, Journals, and Market Reports provide a wealth of information. To access these publications and quickly find the information you need, clients can use Lux Research’s Member Site.

Market Analysis

Lux Research analysts’ deep understanding of the underlying technologies makes them uniquely qualified to provide insightful market analysis of emerging technology areas. Drawing on extensive primary research for technical and market insight, Lux Research helps clients understand market opportunities through:

- Market Reports
- Analyst Insights
- Data Trackers

Company Profiles

The core of Lux Research’s Intelligence services are our ongoing briefings – analysts select 50 to 125 leading innovators in each emerging technology field and publish primary-research-driven, opinionated, quantitative profiles of these players. These profiles are delivered to clients in email and available online through the Member Site.

Analyst Inquiries

In addition to accessing Lux Research’s written research in the form of Company Profiles, Journals, and Market Reports, clients can also contact Lux Research analysts, who will quickly answer custom questions based on their ongoing research into emerging technology areas.

Visualization Tools

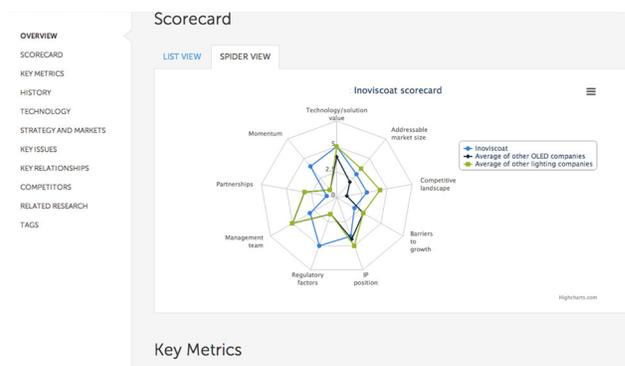
Lux Innovation Grids

Lux Research collects information and provides analysis on top innovators in emerging technology areas through company briefings. The Lux Innovation Grid uses data and insights from these profiles to compare companies.



Spider Charts

Lux Research uses spider charts to show a technology provider’s scorecard, rating the company on 10 critical success factors, and compares it to other companies in the market in which they participate and the broader area of companies in their technology space.



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