



Advanced Materials Intelligence

Advanced Materials Drive Coating, Composite, Metal, and Platform Technologies

Lux Research scouts advanced materials throughout the innovation funnel, assisting clients in devising future business strategies that best capitalize on the emerging technologies of today and tomorrow. Coating, composite, and metal technologies enhance the performance of today's products, while emerging platform technologies like graphene, 3D printing, and metamaterials advance the frontier of tomorrow's material capabilities. However, even the most remarkable materials won't generate profits without properly crafted and informed strategies, meaning decision makers need to:

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

Intelligence Access

For more information on how to access the Lux Advanced Materials 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.

Sample Advanced Materials Topics

Technologies

- > Anticorrosion, anti-fouling, and anti-wear coatings
- > Hydrophobic, antimicrobial, and self-healing coatings
- > High performance metal alloys like AHSS, Al, and Ti
- > Carbon fiber composites
- > CFRP processing and recycling tech.
- > Metal matrix composites
- > Ceramic matrix composites
- > Advanced structural ceramics
- > High temperature thermoplastics
- > Recyclable or fast curing thermosets
- > Nanocomposites
- > Carbon nanotubes
- > Graphene
- > Metamaterials
- > Metal-organic frameworks
- > Shape memory materials
- > Smart coatings
- > 3D printing and scanning
- > Materials design and discovery tools

Applications

- > Automotive and aerospace lightweighting
- > Advanced packaging barrier films and coatings
- > Sporting equipment
- > Antimicrobial surfaces for health and wellness
- > Marine and aerospace anti-fouling
- > Oil and gas component protection and longevity
- > Part prototyping, tooling, and manufacturing using 3D printing
- > Part design optimization
- > Distributed manufacturing
- > Materials discovery and selection using artificial intelligence
- > Graphene and carbon nanotube-enhanced composites and coatings
- > Metamaterials for electronics and communications

Companies

- > The NanoSteel Company
- > Flash Bainite
- > Connora Technologies
- > TripleO
- > Nexam Chemical
- > Dexmat
- > XG Sciences
- > Volute
- > NBD Nano
- > Liquiglide
- > Mesocoat
- > Carbon
- > Fabrisonic
- > Oxford Performance Materials
- > Norsk Titanium
- > Alphastar
- > Matterport
- > Citrine Informatics
- > Zyvex Technologies
- > Kymeta

Lux Research Difference

The Lux Advanced Materials 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

Advanced Materials Intelligence

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

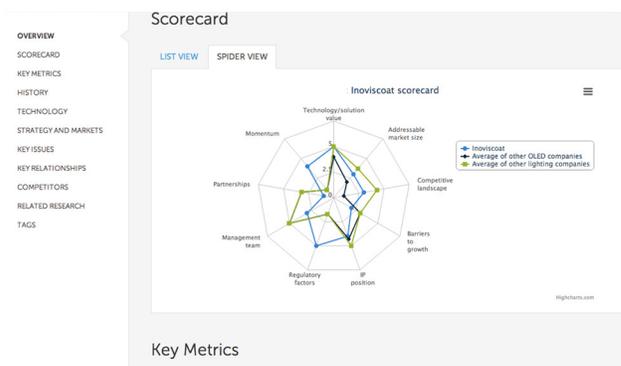
Lux Innovation Grids

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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