

CELINANO

# CONTENTS

GLASS

HYDROPHOBIC



GAS STOVE  
COOKTOP's

CAR

COLLOIDAL GOLD

COLLOIDAL SILVER

TEXTILE-CARPET

BRICK -  
CONCRETE

SOLAR  
PANELS

TILE & CERAMICS

ANTI-BACTERIA

ANTI-SMOKE

ACRYLIC PAINT

...

# ABOUT US

Founded in 2016, Sorena Shimi Sharif began as a small basement laboratory created by a single individual with a passion for innovation, quality, and environmental responsibility. What started as a one-person vision has evolved into a multi-million-dollar enterprise specializing in advanced nanotechnology solutions

In 2025, the company launched a new high-tech brand called CELINANO, created to expand its capabilities and deliver next-generation nano-coatings and industrial chemical technologies.

We specialize in producing premium hydrophobic nano surface coatings, anti-bacterial and anti-odor formulations, textile and carpet waterproofing solutions, and a continuously growing portfolio of high-performance nano products used across multiple industries.

As our research and production capacity expanded, we entered the construction chemicals sector, introducing nano-enhanced waterproofing paints, high-strength concretes, tile adhesives, anti-rust coatings, and waterproofing membranes—all engineered to enhance durability, sustainability, and long-term protection

The company has also launched new divisions dedicated to petroleum & gas applications and agricultural nanotechnology, further strengthening our position as a multi-sector technology leader

At CELINANO, our mission is clear

to develop safe, high-quality, environmentally responsible products that deliver real performance, powered by the science of nanotechnology

We are proud of our journey, committed to innovation, and dedicated to shaping the future of nano-based technologies in the region and beyond

NANOTECHNOLOGY  
FORECAST- market  
reports

| Source (publisher)         | Base year & reported market size | Forecast year & projected size | Reported CAGR (period) | Quick note & citation  |
|----------------------------|----------------------------------|--------------------------------|------------------------|--|
| Mordor Intelligence        | 2025: USD 104.88 B               | 2030: USD 197.43 B             | 13.49% (2025–2030)     | Broad nanotechnology market projection (materials + devices + services). ( <a href="#">Mordor Intelligence</a> )                             |
| Grand View Research        | 2022: USD 3.69 B                 | 2030: USD 36.85 B              | 33.1% (2024–2030)      | Smaller base — likely narrower definition (specific nanotech segments). ( <a href="#">Grand View Research</a> )                              |
| Fortune Business Insights  | 2024: USD 91.18 B                | 2032: USD 332.73 B             | 17.6% (2024–2032)      | Mid–large range estimate; substantial growth through 2032. ( <a href="#">Fortune Business Insights</a> )                                     |
| ResearchAndMarkets         | 2024: USD 16.72 B                | 2032: USD 109.14 B             | 26.42% (2025–2032)     | Another mid-range forecast — shows fast expansion. ( <a href="#">Research and Markets</a> )  |
| DataBridge Market Research | 2024: USD 14.56 B                | 2032: USD 227.54 B             | 41.0% (2024–2032)      | Very high CAGR — likely includes rapidly expanding components or startup/adjacent segments. ( <a href="#">databridgemarketresearch.com</a> ) |

USD

~100+ Billion USD

• • •



NANO COATING

Nano coatings represent one of the fastest-growing segments of the global nanotechnology market, driven by their ability to deliver ultra-thin, high-performance protective layers that enhance durability, corrosion resistance, and self-cleaning properties across automotive, construction, electronics, and energy industries.



CELINANO

# GLASS HYDROPHOBIC

The application of a nano-engineered hydrophobic glass spray forms a **5-20 nm** transparent coating that significantly reduces the glass surface energy to **below 20 mN/m**, enabling a strong water contact angle of **110-120°**. This lotus-effect surface prevents adhesion of water, dust, air pollutants, and sea-salt crystals by forcing contaminants to bead and roll off under gravity or light airflow. The nano-layer is chemically bonded to the silica structure of the glass, offering **UV-resistant**, **temperature-stable (-20°C to +250°C)**, and **abrasion-tolerant** performance. As a result, the treated glass becomes highly self-cleaning, maintaining optical clarity while requiring far less washing and reducing long-term maintenance costs.



CELINANO

# CAR BODY

HYDROPHOBIC



A nano-engineered hydrophobic coating on the car body creates an ultra-smooth, low-surface-energy layer that shields the paint from dust, mud, acid rain, UV radiation, and environmental pollutants—preserving color depth and gloss for a significantly longer time. The coating's advanced water-repellent properties cause rain to bead instantly and slide off, preventing water spots, mineral staining, and microbial buildup. At driving speeds above **30 km/h**, the aerodynamic airflow efficiently sweeps water droplets from both the painted surfaces and the front windshield, reducing drag, improving visibility, and in many conditions eliminating the need for wiper activation. Beyond aesthetic protection, this technology reduces cleaning frequency, lowers maintenance costs, and enhances overall vehicle longevity and performance.

CAR

CELINANO

# Solar Panel's

## HYDROPHOBIC

Applying a nano-structured hydrophobic coating to solar panels creates a **low-surface-energy layer** ( $\approx 18\text{--}22 \text{ mN/m}$ ) that increases the water contact angle to  $115\text{--}125^\circ$ , preventing dust, sand, and environmental pollutants from adhering to the glass surface. The engineered nano-layer reduces particle-surface adhesion forces, allowing accumulated debris to be removed easily by minimal rainfall or even light airflow, maintaining optimal optical transmission. This self-cleaning behavior significantly decreases soiling losses—often responsible for **5–30% performance decline** in dusty climates—and prolongs the operational lifespan of the panels by reducing abrasive wear and chemical corrosion. Ultimately, hydrophobic nano-coatings enhance long-term energy yield while lowering maintenance frequency and costs, making them ideal for high-dust regions and large-scale solar farms.

• • •





CELINANO

# Textile&Carpet's

## SUPER HYDROPHOBIC

When applied to textiles, carpets, and shoe surfaces, the nano-engineered hydrophobic formulation undergoes a brief heat-activation step-typically **120-160°C depending on the material** -to chemically anchor the nanoparticles to the fiber or surface structure. This curing process forms a durable, ultra-thin layer effective on **both synthetic fibers (polyester, nylon) and natural fibers (cotton, wool, leather)** as well as common **shoe materials** such as suede, nubuck, mesh, and canvas. By lowering the surface energy and raising the liquid contact angle, the coating makes the material highly repellent to water, beverages, mud, and oils, preventing stains and reducing moisture absorption. The treated surfaces retain their softness, breathability, color, and texture while gaining long-lasting, easy-clean protection-extending the lifespan of fabrics, carpets, and footwear.



CELINANO

# BRICK's & CONCRETE

SUPER HYDROPHOBIC



Applying a super-hydrophobic nano-coating to brick and concrete surfaces forms an ultra-thin, breathable barrier that dramatically reduces surface energy and increases water contact angle to over **150°**, causing rain, moisture, and contaminants to bead and roll off instead of penetrating the material. By preventing water absorption, the coating stops internal moisture buildup—the primary cause of **cracks, freeze-thaw damage, efflorescence, salt migration, and structural weakening**. Its dry, water-repellent surface also disrupts the conditions needed for algae, moss, and fungal growth, keeping building exteriors cleaner and more visually stable over time. In addition, the coating protects against pollution staining, UV degradation, and corrosion of reinforcement materials. As a result, brick and concrete walls remain stronger, cleaner, and more durable, significantly extending the building's lifespan while reducing maintenance costs.

BRICK &  
CONCRETE



CELINANO

## ACRYLIC PAINT Coating & ANTIBACTERIAL Nano-Infused PAINT

SUPER HYDROPHOBIC

The super-hydrophobic nano-spray for acrylic paints is a next-generation solution engineered to deliver maximum durability, zero water absorption, and long-term structural protection for brick, concrete, and masonry surfaces. Using precision nano-spray technology, the formulation creates a perfectly uniform, ultra-repellent barrier that prevents moisture from penetrating the wall structure. This eliminates the root causes of freeze-thaw cracking, efflorescence, salt migration, and deep structural decay—ensuring a significantly extended lifespan for the building. By keeping the internal matrix of the structure completely dry, the paint surface preserves the aesthetic integrity of the façade, reduces biological growth such as algae, moss, and fungi, and dramatically lowers maintenance costs. Engineered for demanding exterior environments, this product provides long-lasting defense against weathering, pollution, and environmental stress, making it the ideal protection system for modern construction standards.

### Antibacterial Nano-Infused Paint

represents a breakthrough in advanced hygienic technology. This is not a coating—it is a **fully engineered paint system infused with permanent nano-antibacterial agents** that are chemically integrated into the paint matrix during manufacturing. Once applied, the wall surface becomes a **self-sanitizing, continuously active antibacterial zone**, providing lifetime protection without the need for reactivation or renewal. The nano-particles operate at the molecular level: when harmful bacteria make contact with the painted surface, the embedded nano-antibacterial agents disrupt and neutralize them **instantly**, preventing microbial growth and eliminating contamination risks. Because the antibacterial function is **chemically bonded** within the paint layer, its performance remains stable for decades, unaffected by cleaning, environmental conditions, or surface wear. This anti-bacterial paint is ideal for **hospitals, clinics, laboratories, schools, food-processing areas, childcare environments**, and any space requiring strict hygienic control. By combining aesthetic quality with medical-grade protection, this innovative paint establishes a new standard for long-term indoor safety.

CELINANO

# ANTI-SMOKE

## Total Smoke Odor Neutralization

Introducing our groundbreaking **Anti-Smoke Nano-Spray**, the revolutionary solution engineered to restore air quality by **eliminating smoke particles in mere seconds**. Unlike conventional products that simply mask unpleasant smells, this advanced formula utilizes **active nano-technology** to chemically neutralize and break down smoke compounds at the molecular level, ensuring the **complete and permanent removal** of the source odor. Just a quick spray transforms heavy, lingering smoke—from cigarettes, burnt food, or fireplaces—into **clean, fresh, breathable air**. It works immediately, leaving behind **absolutely no residual scent or heavy perfume**, guaranteeing pure air quality and superior environmental comfort.





CELINANO

# **GAS STOVES & COOKTOP's**

OLEOPHOBIC NANO SPRAY

## The Future of Non-Stick

Oleophobic Nano Spray for Gas Stoves & Cooktops is a one-of-a-kind, next-generation nano technology that forms an ultra-thin, invisible, high-temperature nonstick barrier on metal surfaces, uniquely engineered to repel oil, grease, and burnt residues so they cannot bond even under intense heat; this innovative and highly advanced formulation delivers long-lasting protection for home kitchens, restaurants, factories, and any metal surface exposed to oils or grease, keeping equipment cleaner, preserving surface quality, reducing odors and bacterial buildup, and enabling effortless cleaning with just water—completely eliminating the need for harsh chemical cleaners while introducing a truly unique and groundbreaking nano solution to the modern market





CELINANO

# NANO COLLOIDAL GOLD

Biomedical, Healthcare  
& Molecular Biology  
Cancer diagnostics (photothermal imaging)  
Cancer therapy (photothermal ablation)  
Drug delivery carriers  
Vaccine adjuvants  
Targeted gene delivery  
Biosensors for early disease detection  
Rapid diagnostic test kits (e.g., pregnancy, COVID lateral flows)  
Photodynamic therapy enhancement  
Contrast agents for CT and optical imaging  
Anti-inflammatory therapeutic formulations  
DNA/RNA labeling  
Protein tagging  
Immunoassays (ELISA enhancement)  
Surface plasmon resonance biosensors  
Electron microscopy contrast enhancement  
Controlled drug release systems  
Theranostics (combined-diagnostics+ therapy)  
Stability enhancers in formulations



NANO  
GOLD

CELINANO

# NANO COLLOIDAL GOLD

## Cosmetics & Dermatology

Anti-aging serums  
Skin rejuvenation creams  
Collagen stimulation boosters  
Transdermal delivery enhancers

## Electronics & Engineering

Conductive inks for flexible  
electronics  
Plasmatic antennas  
Optical data storage  
Nano-photonics devices  
Solar cell efficiency enhancers

## Material Science

Catalysts for chemical reactions  
Surface-enhanced Raman  
spectroscopy (SERS) substrates  
Smart coatings  
Nano composites for enhanced  
mechanical properties

## Agriculture

Plant disease rapid detection  
strips



Colloidal Gold



CELINANO

# NANO COLLOIDAL SILVER

## Medical & Healthcare

Broad-spectrum antimicrobial agent  
Antiviral coatings  
Anti-fungal treatments  
Wound dressings & bandages  
Hospital surface disinfectants  
Antibacterial gels and sprays  
Dental materials (anti-plaque composites)  
Medical device coatings (catheters, implants)

## Pharmaceutical & Biotechnology

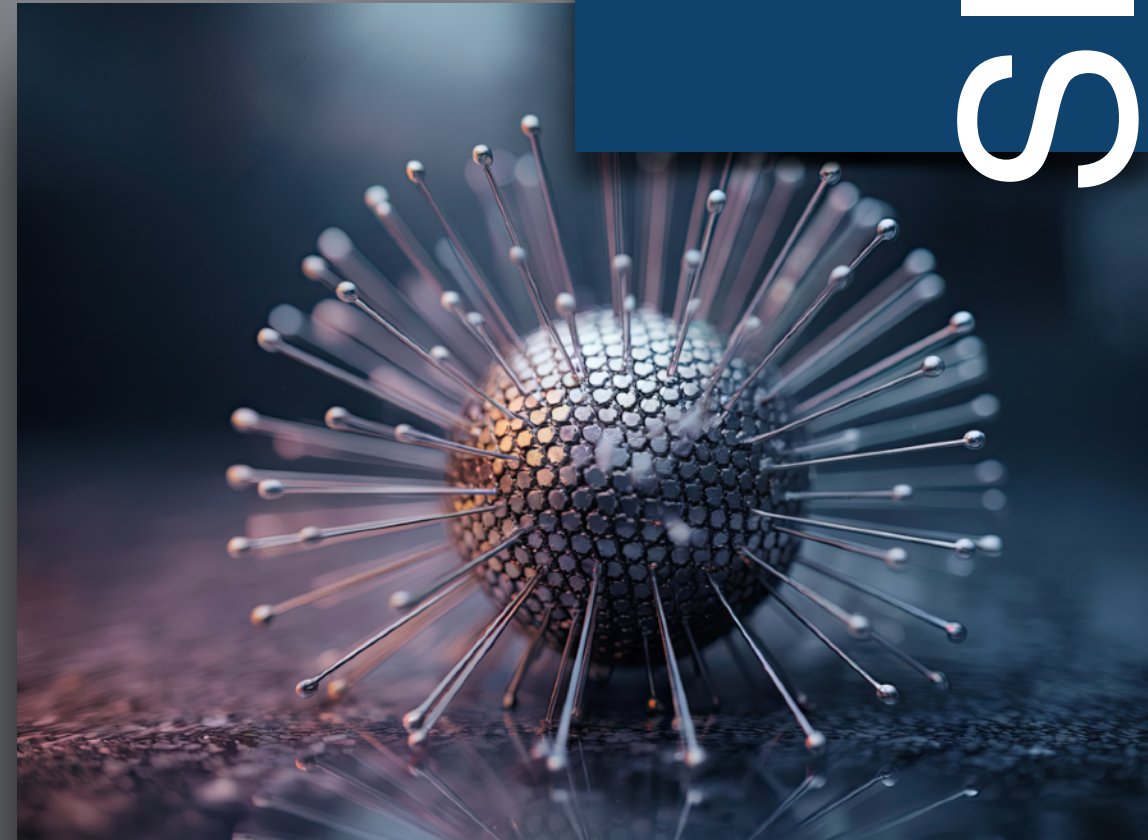
Drug delivery enhancement  
Biofilm inhibition  
Diagnostic test kits (antimicrobial elements)  
Medical device coatings (catheters, implants)

## Cosmetics & Personal Care

Deodorant sprays (anti-odor)  
Anti-acne formulations  
Skin purification products  
Anti-inflammatory creams

## Household & Consumer Products

Anti-bacterial refrigerator linings  
Washing machine sterilizing nano-coatings  
Baby products hygiene coatings  
Reusable mask coatings



SILVER

CELINANO

# NANO COLLOIDAL SILVER

## Water & Environmental Treatment

- Water purification systems
- Anti-bacterial filtration membranes
- Wastewater pathogen control
- Air purification nano-coatings

## Industrial & Engineering

- Antimicrobial surface coatings
- Self-sterilizing surfaces
- HVAC and air-conditioner filters
- Plastics with embedded anti-bacterial nanoparticles
- Conductive inks (Ag-based nano inks)
- Sensor electrodes
- Printed electronics components

## Textiles & Fabrics

- Anti-bacterial clothing
- Anti-odor sportswear
- Bed linens & hospital gowns
- Long-lasting hygiene coatings
- Hospital linens
- Mask sterilizing coatings



SILVER



CELINANO

# CONTACT US

[www.CELINANO.com](http://www.CELINANO.com)

[SALES@CELINANO.COM](mailto:SALES@CELINANO.COM)

whatsapp +97155-7454473

