

The Global Market for Nanotechnology in Flexible, Stretchable and Printable Electronics and Displays

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Abstracts

The electronics industry will witness significant change and growth in the next decade, and the integration of nanomaterials into products in the electronics sector is gathering pace. Nanomaterials exhibit extraordinary electrical properties, and have a huge potential in electrical and electronic applications such as photovoltaics, sensors, remote health monitoring and medicine, semiconductor devices, displays, conductors, smart textiles and energy conversion devices (e.g., fuel cells, harvesters and batteries).

Market drivers for Nanotechnology in Flexible, Stretchable and Printable Electronics and Displays include:

Scaling- Power requirement and performance no longer scale with feature size

Growth of mobile wireless devices

Growth in the Internet of Things increasing demand for low-power devices, RF and wireless, sensors, energy harvesting devices etc.

Electronics entering every area of our lives

Growth in flexible electronics needs in the automotive industry

Growth in wearables and remote diagnostics in medicine and healthcare

Demand for high-resolution, low-power displays

This report is based on an extensive market study of advances in fields such as nanotechnology, printed electronics electronics and conducting materials, and includes:

Market drivers and trends

Nanomaterials utilized in Flexible, Stretchable and Printable Electronics and Displays

Applications

Electronic textiles

Electronic paper

Wearable health monitoring
Automotive HMI and displays
QD displays market
Touchscreens and ITO replacement
Conductive films
Electronics coatings
Application developers

Contents

1 RESEARCH METHODOLOGY

- 11 COMMERCIAL IMPACT RATING SYSTEM
- 12 MARKET CHALLENGES RATING SYSTEM

2 EXECUTIVE SUMMARY

- 21 MARKET DRIVERS AND TRENDS
 - 211 Scaling
 - 212 Growth of mobile wireless devices
 - 213 Internet of things (IoT)
 - 214 Data, logic and applications moving to the Cloud
 - 215 Ubiquitous electronics
 - 2151 Growth in automotive interior electronics
 - 2152 Growth in wearable medical diagnostics
 - 216 Nanomaterials for new device design and architectures
 - 217 Carbon and 2D nanomaterials
 - 218 Industrial collaborations

3 NANOMATERIALS

- 31 Properties of nanomaterials
- 32 Categorization

4 NANOMATERIALS IN FLEXIBLE, STRETCHABLE & PRINTABLE ELECTRONICS & DISPLAYS

- 41 CARBON NANOTUBES
 - 411 Properties
 - 412 Applications
 - 413 Demand by market
 - 414 Technology readiness level (TRL)
- 42 GRAPHENE
 - 421 Properties
 - 422 Applications
 - 423 Demand by market
 - 424 Technology readiness level (TRL)

- 43 NANOCELLULOSE
 - 431 Properties
 - 432 Applications
 - 433 Demand by market
 - 434 Technology readiness level (TRL)
- 44 NANOSILVER
 - 441 Properties
 - 442 Applications
 - 443 Demand by market
 - 444 Technology readiness level (TRL)
- 45 NANOWIRES
 - 451 Properties
 - 452 Applications
 - 453 Demand by market
 - 454 Technology readiness level (TRL)
- 46 QUANTUM DOTS
 - 461 Properties
 - 462 Applications
 - 463 Demand by market
 - 464 Technology readiness level (TRL)
- 47 GRAPHENE AND CARBON QUANTUM DOTS
 - 471 Properties
 - 472 Applications
- 48 2D MATERIALS
 - 481 Black phosphorus/Phosphorene
 - 4811 Properties
 - 4812 Applications in electronics
 - 482 C₂N
 - 4821 Properties
 - 4822 Applications in electronics
 - 483 Germanene
 - 4831 Properties
 - 4832 Applications in electronics
 - 484 Graphdiyne
 - 4841 Properties
 - 4842 Applications in electronics
 - 485 Graphane
 - 4851 Properties
 - 4852 Applications in electronics

- 4853 Properties
- 4854 Applications in electronics
- 486 Molybdenum disulfide (MoS₂)
- 4861 Properties
- 4862 Applications in electronics
- 487 Rhenium disulfide (ReS₂) and diselenide (ReSe₂)
- 4871 Properties
- 4872 Applications in electronics
- 488 Silicene
- 4881 Properties
- 4882 Applications in electronics
- 489 Stanene/tinene
- 4891 Properties
- 4892 Applications in electronics
- 4810 Tungsten diselenide
- 48101 Properties
- 48102 Applications in electronics

5 FLEXIBLE AND STRETCHABLE ELECTRONICS, CONDUCTIVE FILMS AND DISPLAYS MARKETS

51 MARKET DRIVERS AND TRENDS

- 511 ITO replacement for flexible electronics
- 512 Growth in the wearable electronics market
- 513 Growth of HMI and display systems in the automotive industry
- 514 Touch technology requirements
- 515 Energy needs of wearable devices
- 516 Increased power and performance of sensors with reduced cost
- 517 Growth in the printed sensors market
- 518 Growth in the home diagnostics and point of care market

52 APPLICATIONS

- 521 Transparent electrodes in flexible electronics
 - 5211 SWNTs
 - 5212 Double-walled carbon nanotubes
 - 5213 Graphene
 - 5214 Silver nanowires
 - 5215 Nanocellulose
 - 5216 Copper nanowires
 - 5217 Nanofibers

- 522 Wearable electronics
 - 5221 Current state of the art
 - 5222 Nanotechnology solutions
- 523 Electronic paper
- 524 Wearable sensors
 - 5241 Current stage of the art
 - 5242 Nanotechnology solutions
 - 5243 Wearable gas sensors
 - 5244 Wearable strain sensors
 - 5245 Wearable tactile sensors
- 525 Wearable health monitoring
 - 5251 Current state of the art
 - 5252 Nanotechnology solutions
- 526 Wearable energy storage and harvesting devices
 - 5261 Current state of the art
 - 5262 Nanotechnology solutions
- 527 Automotive HMI and displays
- 528 Quantum dot displays
 - 5281 On-edge (edge optic)
 - 5282 On-surface (film)
 - 5283 On-chip
 - 5284 Quantum rods
 - 5285 Quantum converters with red phosphors
- 53 MARKET SIZE AND OPPORTUNITY
 - 531 Touch panel and ITO replacement
 - 532 Displays
 - 533 Wearable electronics
 - 534 Wearable health monitoring
 - 535 Wearable energy storage and harvesting devices
- 54 MARKET CHALLENGES
 - 541 Manufacturing
 - 542 Competing materials
 - 543 Cost in comparison to ITO
 - 544 Fabricating SWNT devices
 - 545 Fabricating graphene devices
 - 546 Problems with transfer and growth
 - 547 Improving sheet resistance
 - 548 High surface roughness of silver nanowires
 - 549 Electrical properties

5410 Difficulties in display panel integration
55 APPLICATION AND PRODUCT DEVELOPERS 207-239 (70 company profiles)

6 CONDUCTIVE INKS AND PRINTED ELECTRONICS

61 MARKET DRIVERS AND TRENDS

- 611 Increased demand for printed electronics
- 612 Limitations of existing conductive inks
- 613 Growth in the 3D printing market
- 614 Growth in the printed sensors market

62 APPLICATIONS

63 MARKET SIZE AND OPPORTUNITY

- 631 Total market size
- 632 Nanotechnology and nanomaterials opportunity

64 MARKET CHALLENGES

65 APPLICATION AND PRODUCT DEVELOPERS 249-261 (26 company profiles)

7 ELECTRONICS COATINGS

71 MARKET DRIVERS AND TRENDS

- 711 Demand for multi-functional, active coatings
- 712 Waterproofing and permeability
- 713 Improved aesthetics and reduced maintenance
- 714 Proliferation of touch panels
- 715 Need for efficient moisture and oxygen protection in flexible and organic electronics

- 716 Electronics packaging
- 717 Growth in the optical and optoelectronic devices market
- 718 Improved performance and cost over traditional AR coatings
- 719 Growth in the solar energy market

72 APPLICATIONS

- 721 Waterproof nanocoatings
 - 7211 Barrier films
 - 7212 Hydrophobic coatings
- 722 Anti-fingerprint nanocoatings
- 723 Anti-reflection nanocoatings

73 MARKET SIZE AND OPPORTUNITY

- 731 Total market size
 - 7311 Anti-fingerprint nanocoatings

7312 Anti-reflective nanocoatings

7313 Waterproof nanocoatings

74 MARKET CHALLENGES

741 Durability

742 Dispersion

743 Cost

75 APPLICATION AND PRODUCT DEVELOPERS 282-293 (22 company profiles)

8 REFERENCES

List Of Tables

LIST OF TABLES

- Table 1: Semiconductor Components of IoT Devices
- Table 2: Nanoelectronics in next generation information processing
- Table 3: Nanoelectronics industrial collaborations and target markets
- Table 4: Categorization of nanomaterials
- Table 5: Nanomaterials in electronics
- Table 6: Properties of CNTs and comparable materials
- Table 7: Markets, benefits and applications of Carbon Nanotubes
- Table 8: Properties of graphene
- Table 9: Markets, benefits and applications of graphene
- Table 10: Consumer products incorporating graphene
- Table 11: Nanocellulose properties
- Table 12: Properties and applications of nanocellulose
- Table 13: Markets and applications of nanocellulose
- Table 14: Markets, benefits and applications of nanosilver
- Table 15: Markets, benefits and applications of nanowires
- Table 16: Electronics markets and applications nanowires
- Table 17: Markets, benefits and applications of quantum dots
- Table 18: Schematic of (a) CQDs and (c) GQDs HRTEM images of (b) C-dots and (d) GQDs showing combination of zigzag and armchair edges (positions marked as 1–4)
- Table 19: Properties of graphene quantum dots
- Table 20: Electronic and mechanical properties of monolayer phosphorene, graphene and MoS₂
- Table 21: Comparison of ITO replacements
- Table 22: Properties of SWNTs and graphene relevant to flexible electronics
- Table 23: Comparative cost of TCF materials
- Table 24: Wearable electronics devices and stage of development
- Table 25: Applications in electronic textiles, by nanomaterials type and benefits thereof
- Table 26: Graphene properties relevant to application in sensors
- Table 27: Wearable medical device products and stage of development
- Table 28: Applications in flexible and stretchable health monitors, by nanomaterials type and benefits thereof
- Table 29: Applications in patch-type skin sensors, by nanomaterials type and benefits thereof
- Table 30: Wearable energy and energy harvesting devices and stage of development
- Table 31: Applications in flexible and stretchable batteries, by nanomaterials type and

benefits thereof

Table 32: Applications in flexible and stretchable supercapacitors, by nanomaterials type and benefits thereof

Table 33: Applications in energy harvesting textiles, by nanomaterials type and benefits thereof

Table 34: Advantages and disadvantages of LCDs, OLEDs and QDs

Table 35: Approaches for integrating QDs into displays

Table 36: Commercially available quantum dot display products

Table 37: Application markets, competing materials, nanomaterials advantages and current market size in flexible substrates

Table 38: Commercially available quantum dot display products

Table 39: Nanotechnology and nanomaterials in the flexible electronics, conductive films and displays market-applications, stage of commercialization and estimated economic impact

Table 40: Global market for wearables, 2014-2021, units and US\$

Table 41: Potential addressable market for smart textiles and wearables in medical and healthcare

Table 42: Potential addressable market for thin film, flexible and printed batteries

Table 43: Market assessment for the nanotechnology in the wearable energy storage (printed and flexible battery) market

Table 44: Market assessment for the nanotechnology in the wearable energy harvesting market

Table 45: Market challenges rating for nanotechnology and nanomaterials in the flexible electronics, conductive films and displays market

Table 46: Comparative properties of conductive inks

Table 47: Applications in conductive inks by nanomaterials type and benefits thereof

Table 48: Opportunities for nanomaterials in printed electronics

Table 49: Nanotechnology and nanomaterials in the conductive inks market-applications, stage of commercialization and estimated economic impact

Table 50: Market challenges rating for nanotechnology and nanomaterials in the conductive inks market

Table 51: Properties of nanocoatings

Table 52: Nanocoatings applied in the consumer electronics industry

Table 53: Anti-reflective nanocoatings-Markets and applications

Table 54: Market opportunity for anti-reflection nanocoatings

Table 55: Nanotechnology and nanomaterials in the electronics coatings market-applications, stage of commercialization and estimated economic impact

Table 56: Market challenges rating for nanotechnology and nanomaterials in the electronics coatings market

List Of Figures

LIST OF FIGURES

- Figure 1: Demand for carbon nanotubes, by market
- Figure 2: Technology Readiness Level (TRL) for Carbon Nanotubes
- Figure 3: Graphene layer structure schematic
- Figure 4: Demand for graphene, by market
- Figure 5: Technology Readiness Level (TRL) for graphene
- Figure 6: Hierarchical Structure of Wood Biomass
- Figure 7: Types of nanocellulose
- Figure 8: Electronics markets and applications of nanocellulose
- Figure 9: Nanocellulose photoluminescent paper
- Figure 10: LEDs shining on circuitry imprinted on a 5x5cm sheet of CNF
- Figure 11: Demand for nanocellulose, by market
- Figure 12: Technology Readiness Level (TRL) for nanocellulose
- Figure 13: Supply chain for nanosilver products
- Figure 14: Demand for nanosilver, by market
- Figure 15: Demand for nanowires, by market
- Figure 16: Technology Readiness Level (TRL) for nanowires
- Figure 17: Quantum dot
- Figure 18: The light-blue curve represents a typical spectrum from a conventional white-LED LCD TV. With quantum dots, the spectrum is tunable to any colours of red, green, and blue, and each Color is limited to a narrow band.
- Figure 19: Demand for quantum dots, by market
- Figure 20: Technology Readiness Level (TRL) for quantum dots
- Figure 21: Black phosphorus structure
- Figure 22: Structural difference between graphene and C₂N-h₂D crystal: (a) graphene; (b) C₂N-h₂D crystal
- Figure 23: Schematic of germanene
- Figure 24: Graphdiyne structure
- Figure 25: Schematic of Graphane crystal
- Figure 26: Structure of hexagonal boron nitride
- Figure 27: Structure of 2D molybdenum disulfide
- Figure 28: Atomic force microscopy image of a representative MoS₂ thin-film transistor
- Figure 29: Schematic of the molybdenum disulfide (MoS₂) thin-film sensor with the deposited molecules that create additional charge
- Figure 30: Schematic of a monolayer of rhenium disulphide
- Figure 31: Silicene structure

- Figure 32: Monolayer silicene on a silver (111) substrate
- Figure 33: Silicene transistor
- Figure 34: Crystal structure for stanene
- Figure 35: Atomic structure model for the 2D stanene on Bi₂Te₃(111)
- Figure 36: Schematic of tungsten diselenide
- Figure 37: A large transparent conductive graphene film (about 20 × 20 cm²) manufactured by 2D Carbon Tech
- Figure 24a (right): Prototype of a mobile phone produced by 2D Carbon Tech using a graphene touch panel
- Figure 38: The Tesla S's touchscreen interface
- Figure 39: Graphene-enabled bendable smartphone
- Figure 40: 3D printed carbon nanotube sensor
- Figure 41: Graphene electrochromic devices Top left: Exploded-view illustration of the graphene electrochromic device The device is formed by attaching two graphene-coated PVC substrates face-to-face and filling the gap with a liquid ionic electrolyte
- Figure 42: Flexible transistor sheet
- Figure 43: Bending durability of Ag nanowires
- Figure 44: NFC computer chip
- Figure 45: NFC translucent diffuser schematic
- Figure 46: Covestro wearables
- Figure 47: Panasonic CTN stretchable Resin Film
- Figure 48: Softceptor sensor
- Figure 49: BeBop Media Arm Controller
- Figure 50: LG Innotek flexible textile pressure sensor
- Figure 51: nanofiber conductive shirt original design(top) and current design (bottom)
- Figure 52: Garment-based printable electrodes
- Figure 53: Wearable gas sensor
- Figure 54: Flexible, lightweight temperature sensor
- Figure 55: Smart e-skin system comprising health-monitoring sensors, displays, and ultra flexible PLEDs
- Figure 56: Graphene medical patch
- Figure 57: StretchSense Energy Harvesting Kit
- Figure 58: LG Chem Hexagonal battery
- Figure 59: Energy densities and specific energy of rechargeable batteries
- Figure 60: Stretchable graphene supercapacitor
- Figure 61: Schematic illustration of the fabrication concept for textile-based dye-sensitized solar cells (DSSCs) made by sewing textile electrodes onto cloth or paper
- Figure 62: Bosch automotive touchscreen with haptic feedback
- Figure 63: Canatu's CNB™ touch sensor
- Figure 64: Samsung QD-LCD TVs

Figure 65: The light-blue curve represents a typical spectrum from a conventional white-LED LCD TV With quantum dots, the spectrum is tunable to any colours of red, green, and blue, and each Color is limited to a narrow band

Figure 66: Methods for integrating QDs into LCD System (a) On-chip (b) On-edge (c) On-surface

Figure 67: On-edge configuration

Figure 68: QD-film integration into a standard LCD display

Figure 69: Quantum phosphor schematic in LED TV backlight

Figure 70: Global touch panel market (\$ million), 2011-2018

Figure 71: Capacitive touch panel market forecast by layer structure (Ksqm)

Figure 72: Global transparent conductive film market forecast (million \$)

Figure 73: Global transparent conductive film market forecast by materials type, 2015, %

Figure 74: Global transparent conductive film market forecast by materials type, 2020, %

Figure 75: QD-LCD supply chain

Figure 76: Total QD display component revenues 2013-2025 (\$M), conservative and optimistic estimates

Figure 77: Global market revenues for smart wearable devices 2014-2021, in US\$

Figure 78: Global market revenues for nanotech-enabled smart wearable devices 2014-2021 in US\$, conservative estimate

Figure 79: Global market revenues for nanotech-enabled smart wearable devices 2014-2021 in US\$, optimistic estimate

Figure 80: Potential addressable market for nanotech-enabled medical smart textiles and wearables

Figure 81: Demand for thin film, flexible and printed batteries 2015, by market

Figure 82: Demand for thin film, flexible and printed batteries 2025, by market

Figure 83: Potential addressable market for nanotech-enabled thin film, flexible or printed batteries

Figure 84: Schematic of the wet roll-to-roll graphene transfer from copper foils to polymeric substrates

Figure 85: The transmittance of glass/ITO, glass/ITO/four organic layers, and glass/ITO/four organic layers/4-layer graphene

Figure 86: Global market for conductive inks and pastes in printed electronics

Figure 87: Phone coated in WaterBlock submerged in water tank

Figure 88: Demo solar panels coated with nanocoatings

Figure 89: Schematic of barrier nanoparticles deposited on flexible substrates

Figure 90: Schematic of anti-fingerprint nanocoatings

Figure 91: Toray anti-fingerprint film (left) and an existing lipophilic film (right)

Figure 92: Schematic of AR coating utilizing nanoporous coating

Figure 93: Schematic of KhepriCoat Image credit: DSM

Figure 94: Nanocoating submerged in water

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