



















Better production tools Longer service life of car parts Special features and higher comfort Theft protection Nanooptics in lighting **Battery for electromobility**

future?

Nanocomposites and 3D printed car

Transparent & flexible electronics, car interior as a large display

Autonomous car with nanosensors



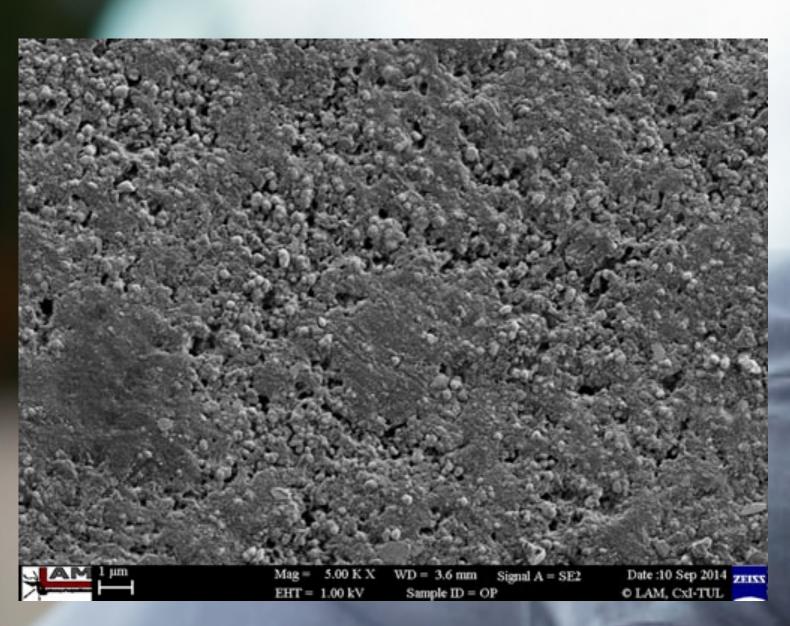
Dedusted atoms after bombarding by accelerated ionts under high vacuum impinge on the surface and form new material Because the material is almost atom-atom-bound, it is very homogeneous and without major crystalline defects

Acc.V Spot Magn Det WD 1 μm 15.0 kV 3.0 20000x SE 8.8 904



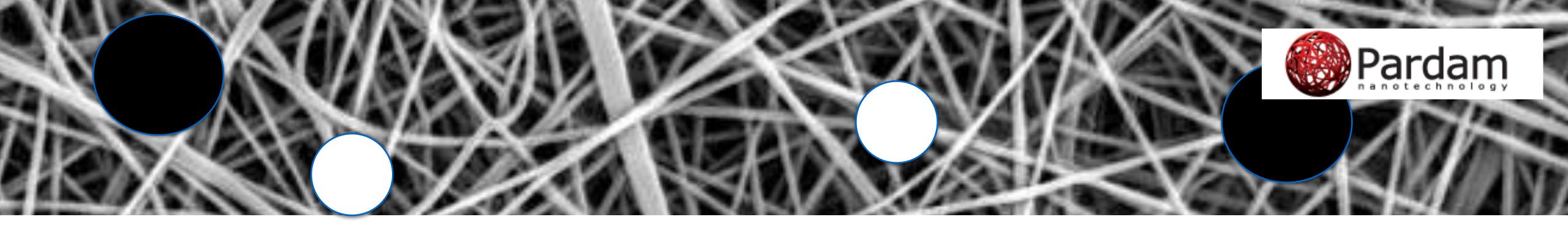


CAR PAINT, GLASS AND WHEEL PROTECTION

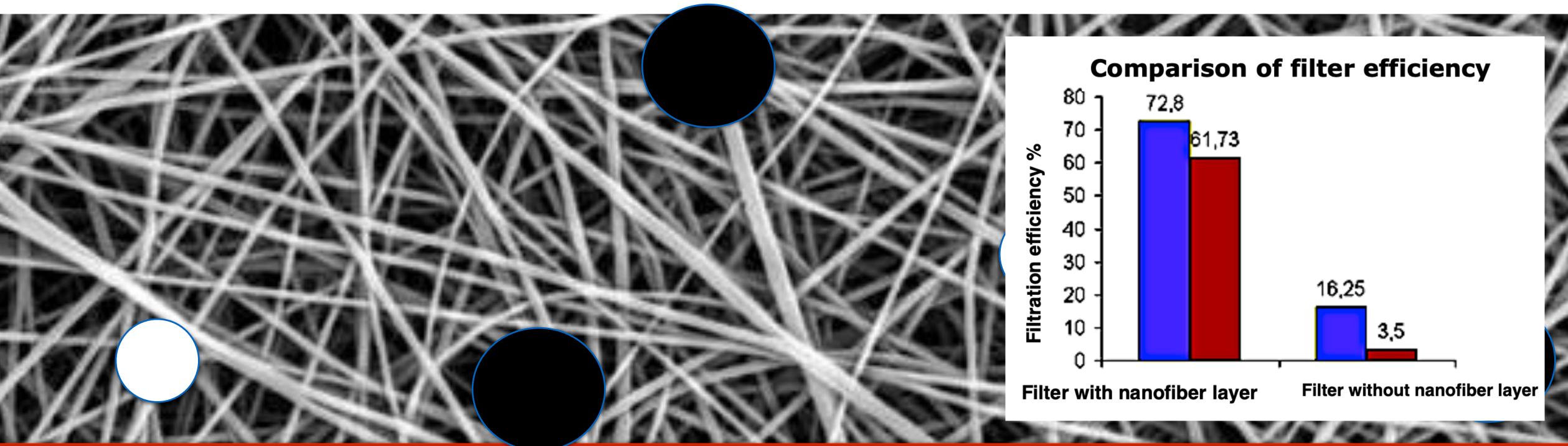


Nanoparticles protect the car with an invisible shield from scratches and deep contamination





SPECIAL CAR FILTERS WITH NANOMEMBRANE



Nanofibers filled with molecules of silver and placed in carbon fiber composite for capture and elimination of particulates, bacteria, alergens and smells





NANOOPTICS IS SHAPING THE CAR LIGHT

Replace large lenses and reflectors, and create smaller and thinner designs

Nanooptics provides perfectly homogeneous illumination of surfaces or objects, and offers unprecedented possibilities for shapes and light distribution

Nanooptics can will reduce production costs and car weight



REVOLUTIONARY 3D BATTERY IS 100% SAFE



Due to lower internal resistance, robust separators and the absence of any organic materials (except for the electrolyte) HE3DA cannot burn or explode due to a short circuit

Battery system capacity up to 500 Wh/liter

Kilowatt hour module offers fifteen times higher peak power than currently used technologies

Efficiency above 95%

Lifespan 5000 cycles

