

Attachment: CityUHK projects at SVIIF

Awards	Company Name	Inventors and Team members	Project	Brief introduction
Gold Medal	ITsci Company Limited (HK Tech 300)	<p>Professor Condon Lau Department of Physics</p> <p>Professor Xinyue Li School of Data Science</p> <p>Professor Fraser HILL Director of CityU Veterinary Diagnostic Laboratory</p> <p>Dr Irfan Ahmed Department of Physics</p> <p>Mr Wei Zhang School of Data Science</p>	Artificial Intelligence Immunostaining for Diagnostic Pathology	Immunostaining is an important set of methods in diagnostic pathology. Our AI invention is considerably faster, less expensive, and easier to use than current staining methods. The invention is currently undergoing clinical trials at the CityU Veterinary Medical Centre.
Gold Medal	<p>NanoIPT (HK Tech 300)</p> <p>Lab for advanced power electronics - City University of Hong Kong</p>	<p>Professor Derrick C.Q. Jiang</p> <p>Mr Y.B. Wang</p> <p>Mr C. Chen</p> <p>Mr X.S. Wang</p> <p>Mr J.C. Xiang</p> <p>Dr J.Y. Zhou</p> <p>Professor T.Long Department of Electrical Engineering</p>	Key Components for EV: Next-generation High-power Nanocrystalline Smart Wireless EV Charger	Aiming to industrialize a high-power 22 kW nanocrystalline smart wireless charger for electric vehicles, supported with 8 academic papers and 3 invention patents. For the first time across the globe, we apply the hybrid nanocrystalline core, successfully breakthrough the limitation of traditional ferrite core, and achieve high AC efficiency over 97%.

Semi-Grand Prix and Gold Medal	City University of Hong Kong	Professor Johnny C. Ho Dr Quan Quan Dr Dong Chen Ms Di Yin Department of Materials Science and Engineering	Solar-Electrocatalytic System for Hydrogen Generation from Seawater	The team engineers the 3D porous micro-nanostructure surface, e.g., nickel foam, to perform solar-driven seawater evaporation to freshwater and solar-driven electrocatalytic hydrogen production from the pre-evaporated seawater. This enables large-scale deployment for eco-friendly and low-cost solar-driven hydrogen fuel production from local seawater.
Gold Medal	City University of Hong Kong	Professor Stella W. Pang Professor Shuyan Zhu Department of Electrical Engineering	Design and Nanofabrication of Highly Sensitive Plasmonic Sensors for Biomedical Cell and Molecule Detection	The team developed a high-sensitivity plasmonic biosensor for early disease screening and diagnosis, with the unique capability of detecting nanometer-sized filopodia and biomolecules. Nanofabrication technology is applied to produce an integrated microsystem that is compact, user-friendly, and portable for point-of-care applications at low cost.