

# Our Periodic Table



## THE ELEMENTS OF GII™

\*STANDARD OR LOW RESISTANCE, ON POLYIMIDE, GORILLA GLASS OR SILICON WAFER SUBSTRATE

**Our Gii™ Technologies\***

Functionalised with Polynucleotide of Choice		
Fe <sub>x</sub> O <sub>y</sub> Coated, with Screen Printed Silver Connectors and Dielectric	Function-alised with Enzyme of Choice	
Screen Printed Silver Connectors and Dielectric	Function-alised with Antibody of Choice	
Screen Printed Carbon Connectors	MnO <sub>2</sub> Coated, with Screen Printed Silver Connectors and Dielectric	
Screen Printed Silver Connectors	Screen Printed Carbon Connectors and Dielectric	
Function-alised with -NHS	Function-alised with -COOH	Function-alised with -But-OH
Coated with PVA/NaClO <sub>4</sub> Gel	Bmim-BF <sub>4</sub> /Silica Gel	

**The Properties of our Gii™**

Fast Electrochemical Response			
Surface Roughness	Areal Density	Hall Effect	
High Electrocatalytic Response		Antifouling	
Piezoresistive		Chemical Corrosion Resistance	
Chemi-resistive	High Electrochemical Active Area	Magnetic Permeability	
Areal Capacitance	Temperature Stability	Triboelectric	Wettability
3D Nanoporous Material	P-Doped Semiconductor	Thermo-resistive	

**Our Integrators**

Data Scientists		
Electrochemical Scientists		
Nanotechnologists		
Quality Engineers	Process Engineers	Optical Engineers
Material Scientists	Product Designers	Electrical Engineers
Mechanical Engineers	Material Engineers	Biochemists

**Our Enabling Capabilities**

Electrochemical Testing		FDM 3D Printing	SLA 3D Printing	Rapid Product Prototyping
Temperature Testing	3D Modelling (Software)	Laser Depth Profiling	Scanning Electron Microscopy	Microfluidic Prototyping
Energy Dispersive X-Ray Spectroscopy		Raman Spectroscopy	Optical Microscopy	Heat Treatment/Stabilisation
Automated Screen Printing	Automated Microfluidic Dispensing	Electrochemical Deposition	Process Excellence	Robust Quality Control
Assay Development	High Precision Singulation	High Speed Gii Manufacturing	ISO:9001 2015	CNC Milling

**Applications Gii™ Revolutionises**

Immunoassays	
Aptamer Assays	MIP Assays
Small Molecule Assays	Enzyme Assays
Nucleic Acid Assays	
Ion Gas Assays	