

Lithography	Photoresist	Spin-coating	Spray-coating	Dry film resist	Polymers
	Mode	UV-lithography	Nano-imprint	Stepper	
	Alignment	Contact	Proximity	Front/back	
Etching	Dry etching	DRIE	RIE	Powderblasting	
	Wet etching	B(HF)	KOH/TMAH	H3PO4	Metal Etch
Micromachining	Micromilling	Direct milling	Mould making		
	Laser machining	Laser cutting and drilling	Laser ablation		
	Dicing and drilling	Wafer dicing	Dicing angle <math><8^{\circ}</math>	Laser and diamond wheel scribing	Polymers
	Surface finishing	Mechanical surface polishing	Chemical mechanical polishing		
Replication	Embossing	Soft embossing	Hot embossing	Lithographic embossing moulds	
	Injection moulding and reactive casting	Milled moulds	Lithographic moulds	Silicone rubber casting	
	Photolithography and patterning	Nano-imprint lithography			
Deposition, surface functionalisation and activation	Chemical and physical vapour deposition	Sputtering (Cr,Pt, Au, Ta, Ti, Al, Cu, Ito)	Evaporation (Cr,Pt, Au, Ta, Ti, Al, Cu, Ito)	SiO ₂ , SiN, ONO	Electroplating (Cu, Au)
	Pulsed laser deposition	PZT			
	Surface functionalisation	Plasma polymerisation and coatings	Local surface (bio)functionalisation and activation	Wet chemistry processes	
	Spotting and dispensing	Immuno-assays	Oligonucleotides	Reagent integration	
	Metallisation on polymer	Sputtering	Evaporation	Alternative: conductive polymers	
Assembly and interfacing	Heterogenous material bonding / hybrid integration	Membrane integration	Laser/room temperature bonding	Pick-and-place	Adhesive bonding
	Post processing	Laser Barcoding	Die level assembly		
	Sensor integration and interfacing	Conductive adhesives	Conductive polymers	Flip-chip	
Substrate and wafer bonding	High temperature bonding	Direct/fusion bonding	Anodic bonding	Eutectic bonding	
	Low temperature bonding	Laser assisted (rt) bonding	Patternable adhesive bonding		
	Polymer substrate bonding	Solvent vapour assisted	Fusion (pressure/heat)	Ultrasonic	Laser
Quality Control	Non-contact metrology	Automated measurement microscope	3D interferometry	Reflectometry	SEM analysis
	Contact metrology	Surface profiler	Profilometer		