



Chemicals and materials

Update : 1st October 2015



Chemicals

Catalysts	Wits	Thermally stable nano-gold catalyst	Upscaling
	UCT	Soluble polymer catalyst backbone	Stage unknown
Chemicals manufacturing	UCT	Synthesis of nitrogen or phosphorous containing compounds	Stage unknown
	NWU	Efficient manufacturing of ozone through spontaneous excitation	Commercial
	UKZN	A process for recovery of hexafluoropropylene and hexafluoropropylene oxide from a liquid mixture of these components	Applied research
Biotech	UCT	Biotransformation of linear alkanes	Stage unknown
Consumer	UCT	Afrtox poisons information database	Commercial



Gas production	NECSA	A single step process to produce PF5 gas	Commercial
Materials			
Nanomaterials	Wits	A continuous process for producing carbon nanotubes / tested at lab scale	Lab scale
	UKZN	A process for producing carbon nanostructures	Applied research
	NMMU	New process to change the way rubber is made: Rubber nano products	Commercial
	CSIR	Encapsulation technology for probiotics and other sensitive actives	Stage unknown
Functional polymers	Stellenbosch	Permanently Antimicrobial Polymer compound	Stage unknown
Packaging	CSIR	A high-performance gas barrier coating for plastics packaging	Lab scale
	NECSA/Pelchem	Fluorination process for HDPE packagings	
Construction materials	Tiro_Sechaba Construction	Mechanical Concrete® for Road Construction	Prototype