

FII Instrument Listing

The Future Industries Institute has a wide range of research instruments that can assist researchers with undertaking fabrication, analysis and data gathering activities. If you would like specialised advice please email the FII Technical Team on: FIITechRequests@unisa.edu.au

A&D AD-4715 IR Moisture Balance

Accusizer 770/770A Optical Particle Sizer/Counter

Agar High Resolution Sputter Coater

Agilent 1100 Liquid Chromatograph - ICP Accessory

Agilent 1200 Liquid Chromatograph with 1260 Infinity Fluorescence Detector and Diode Array Detector

Agilent 1260 Infinity Liquid Chromatograph with 6130 Quadropole Mass Spectrometer (LC_3)

Agilent 1260 Infinity Liquid Chromatograph with 6130 Quadropole Mass Spectrometer (LC_5)

Agilent 1260 Infinity Liquid Chromatograph with 6520 Accurate Mass QTOF Mass Spectrometer

Agilent 50AA Atomic Absorption Spectrometer (AAS)

Agilent 6890 Gas Chromatograph with 7863 Autosample Injector

Agilent 6890N Gas Chromatograph with 7683B Autosampler Injector and 5973 Mass Selective Detector

Agilent 7100 Capillary Electrophoresis System

Agilent 7500 ICP-MS

Agilent 7890 Gas Chromatograph with 5975C Triple Axis Detector and Teledyne Tekmar Autosampler

Agilent 7890 Gas Chromatograph with HP7694 Headspace Sampler

Agilent 8453 UV-Vis Spectrophotometer

Agilent 8800 Triple Quad ICP-MS

Agilent 8900 Triple Quad ICP-MS

Agilent Cary 50 Bio UV-vis Spectrophotometer

Agilent Cary 5000 UV-vis NIR Spectrophotometer

Agilent Cary Eclipse Fluorescence Spectrometer

Agilent Cary Eclipse Fluorescence Spectrophotometer

Anasys Instruments Nano IR2-s Atomic Force Microscope with nanoscale chemical imaging and property mapping

Anton-Paar Electrokinetic Analyser

FII Instrument Listing

Automated Methane Potential Testing System

Beckman Coulter Biomek NXP Automated Workstation

Biolin Scientific Q-Sense Quartz Crystal Microbalance with Dissipation (QCM-D)

Bio-Rad CFX Connect Real-Time System

Bio-Rad PX1 PCR plate reader

Bio-Rad QX200 AutoDG Droplet Digital PCR System

Bio-Rad T100 Thermal PCR cyclers

Brilliant 240 Cutting Machine

Bruker Autoflex Speed MALDI-TOF MS

Bruker Avance II 300 MHz NMR

Bruker Avance III 600 MHz NMR

Bruker DekTakXT Stylus Profiler

Bruker UltrafleXtreme MALDI TOF/TOF

Bruker Vertex 70 FTIR Microscope

Carbolite Chamber Furnace

Carbon Coater

CEM MARS 6 Microwave Digestion System

Christ RVC 2-25 Cdplus Speed Vac

Colloidal Dynamics Acoustosizer II

Core Electronics Lulzbot Taz 5 3D Printer

Crushing Equipment:

- Jaw Crusher
- Rotary Crusher
- Roller Crusher
- Pulverizer
- Screen Shaker
- Rod Mill
- Gyrotory Crusher
- Magatteaux Mill

Dataphysics DCAT 11EC Dynamic Contact Angle Meter and Tensiometer

Dionex ASE 200 Accelerated Solvent Extractor

Dionex ICS-2000 Ion Chromatography System

Eppendorf Mastercycler X50s

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Hounsfield Tensiometer

JEOL JEM-2100F-HR Transmission Electron Microscope

JPK AFM Imaging System

Kratos AxisUltra XPS

Labec Muffle Furnace 1

Labec Muffle Furnace 2

Labec Tube Furnace 1

Labec Tube Furnace 2

LECO TruMac CNS Analyser

Leica Critical Point Dryer

Leica EM KMR3 Glass Knifemaker

Leica EM UC7 Ultramicrotome

Malvern Instruments Zetasizer Nano

Malvern Kinexus Rotational Rheometer

Malvern Mastersizer 2000 Particle Size Analyser

Micromeritics Tristar II 3020 Surface Area and Porosity Analyser

Micromeritics ASAP 2420 Multi-Port Surface Area and Porosimetry Analyser

Micromeritics Gemini V Surface Area and Porosimetry Analyser

Micromeritics VacPrep 061 Sample Preparation System

Milestone SynthWAVE Microwave Synthesis Chamber

Mineral Flotation Lab

MMA X-ray Diffractometer (XRD)

ModulyoD Freeze Dryer

Mozley Hydrocyclone

Nikon A1R Confocal Microscope with Stage Top Incubator

NT-MDT Ntegra Prima Atomic Force Microscope

Olympus SC 50 Optical Microscope

PANalytical MiniPal 4 Energy Dispersive XRF

PanAnalytical XRD Analyser

Perkin Elmer Optima 5300V ICP-OES

PHI TRIFT V nano ToF-SIMS

Plasma Coater

FII Instrument Listing

Plasma Reactors

Pressure Curer

PSS Nicomp 380ZLS Zeta potential Particle Sizer

PSS Nicomp Accusizer 780 Optical Particle Sizer

QAKE Shaker

QEMSCAN

Quantachrome Autosorb IQ2 Gas Sorption Analyser

Quantachrome iSorb HP1 High Pressure Gas Sorption Analyser

Quantachrome Quadrasorb Surface Area and Pore Analyser

Renishaw Laser Raman with 2 Leica DMLM Microscopes

Rigaku Micro XRD D/MAX RAPID II

Roche Light Cycler 480 II

Rotary Micro Riffler

Sessile Drop - Contact Angle Measurement

Shimadzu MOC-120H Moisture Analyser

Shimadzu TOC-L Total Organic Carbon Analyser

Shimadzu UV-2600 UV-vis Spectrophotometer

Shimadzu UV-3600 UV-Vis-NIR

Skalar San Automated Wet Chemistry Continuous Flow Analyser

SPECS Sage XPS

Struers Minitom

Struers Tegra Grinding System

Struers Tegra Polishing System

TA Instruments Discovery DSC & TGA

Thermo Evolution 201 UV-vis Spectrophotometer

Thermo Nicolet 6700 FTIR

Thermo Nicolet Magna 750 FTIR with Photoacoustic Detector

UMIS 2000 Nanoindenter

Varian/Agilent 620 IR Microscope and 670-IR FTIR Spectrometer

Zeiss Elyra PS.1 Laser Scanning Confocal Microscope

Zeiss Merlin FEG SEM with SDD EDS