

GRC Facilities			
Executive manager / Taku Tsuchiya			
I. High-pressure apparatuses			
			[Person in charge]
Multi-anvil high-pressure apparatus	Orange-1000		Yu Nishihara, Toru Shinmei
Multi-anvil high-pressure apparatus	Orange-3000		Tomohiro Ohuchi, Steeve Gréaux, Toru Shinmei
D-DIA type high-pressure deformation apparatus	Madonna I		Tomohiro Ohuchi, Yu Nishihara, Toru Shinmei
D-DIA type high-pressure apparatus with sintered diamond anvils	Madonna II		Toru Shinmei, Tomohiro Ohuchi
Diamond anvil cell	DAC		Takeshi Sakai, Naoki Ishimatsu
Fiber laser heating system for DAC	Fiber laser		Takeshi Sakai
CO ₂ laser heating system for DAC	CO ₂ laser		Takeshi Sakai
High-pressure elastic wave velocity measurement system	Ultrasonic	TDS5104	Steeve Gréaux
II. Analytical instruments			
Field-emission electron probe micro analyzer	FE-EPMA	JXA-iHP200F	Hideharu Kuwahara, Tomohiro Ohuchi
Field-emission scanning electron microscope (with EDS)	FE-SEM-EDS	JSM-IT500HR	Tomohiro Ohuchi, Hideharu Kuwahara
Field-emission scanning electron microscope (with EBSD)	FE-SEM-EBSD	JSM-IT500HR	Tomohiro Ohuchi, Hideharu Kuwahara
Thermionic-emission scanning electron microscope (with EDS)	SEM-EDS	JSM-6510LV	Tomohiro Ohuchi, Hideharu Kuwahara
Analytical transmission electron microscope (Field-emission, with EDS)	FE-TEM	JEM-2100F	Sayako Inoue, Tomohiro Ohuchi
Transmission electron microscope	TEM	JEM-2010	Sayako Inoue, Tomohiro Ohuchi
Focused ion beam system (1)	Dual Beam FIB (1)	Scios	Takeshi Sakai, Sayako Inoue
Focused ion beam system (2)	Dual Beam FIB (2)	Scios2	Sayako Inoue, Takeshi Sakai
Micro-focus X-ray diffractometer	Micro-focus XRD	RAPIDII-V/DW	Takeshi Sakai, Toru Shinmei, Hideharu Kuwahara
Multipurpose X-ray diffraction system	Powder XRD	UltimaIV/DD	Toru Shinmei, Hideharu Kuwahara
Raman spectrometer	Micro-Raman Spectrometer	NRS-5100gr	Takeshi Sakai, Hideharu Kuwahara, Toru Shinmei
Micro-Raman (NIR) Spectrometer	Micro-Raman (NIR) Spectrometer	NRS-4500	Takeshi Sakai, Hideharu Kuwahara, Toru Shinmei
Fourier transform infrared spectrometer	FT-IR	IRT-5200EUO	Yu Nishihara, Toru Shinmei
UV-Vis-NIR spectrophotometer	UV-Vis-NIR	V-670	Toru Shinmei
Laser microscope	Laser microscope	OPTELCIS HYBRID L3	Toru Shinmei
Ion Slicer	Ion Slicer	EM-09100 IS	Sayako Inoue, Tomohiro Ohuchi
Ar ion milling system	PIPS	Model 691	Sayako Inoue, Tomohiro Ohuchi
Au/Pt/C coater	Coater	Neoc-STB/JFC-1600/JEC-560	Tomohiro Ohuchi, Hideharu Kuwahara
III. Others			
Ultrasonic processing machine		UM-150CS	Yu Nishihara, Tomohiro Ohuchi
Auto processing machine I		MDX-540	Toru Shinmei, Steeve Gréaux
Auto processing machine II		MDX-40a	Yu Nishihara, Toru Shinmei, Steeve Gréaux
Atmosphere control furnace I	Bigger furnace	ATCM50-100/1700	Yu Nishihara Toru Shinmei
Atmosphere control furnace II	Smaller furnace	TS-4B06	Yu Nishihara, Toru Shinmei
Arc furnace		ATO-DS-1	Naoki Ishimatsu
Micro Vickers hardness meter		HMV-G21DT	Toru Shinmei
Large plane polishing machine		GS-BMHF	Toru Shinmei, Steeve Gréaux, Hideharu Kuwahara
Precision drilling machine		JIG-3M-1	Yu Nishihara, Toru Shinmei, Tomohiro Ohuchi
Contour machine		V-33	Yu Nishihara, Toru Shinmei
Auto polisher		EcoMet3000	Yu Nishihara, Toru Shinmei
Fiber laser processing system I	for DAC	FL-LM 01	Takeshi Sakai, Toru Shinmei
Fiber laser processing system II	for MA	ML-7111A	Yu Nishihara, Toru Shinmei
Diamond polisher		MCBS-320	Tetuo Irifune, Toru Shinmei
Numerically Controlled tapping device	NC	MTV-T310; KIRA, PCV-30	Toru Shinmei
CCD microscope (KEYENCE)		VHX-2000	Toru Shinmei
Digital microscope (Laica)		DVM6	Toru Shinmei
High-temperature electric furnace		SPM65-17	Steeve Gréaux
IV. Simulation codes			
Simulation code for physical properties of minerals			Taku Tsuchiya, Haruhiko Dekura
Numerical fluid simulation code			Masanori Kameyama
V. SPring-8			
Guide grock for the deformation experiment (SPring-8 BL04B1)			Yu Nishihara, Tomohiro Ohuchi
200 ton D-DIA type apparatus (SPring-8 BL15XU)	Hyakushiki		Tomohiro Ohuchi, Yu Nishihara
In-situ X-ray and elastic wave velocity measurement system (SPring-8 BL04B1)			Steeve Gréaux
High speed camera (SPring-8 BL04B1)		FASTCAM Mini AX100	Steeve Gréaux
VI. "HIME-DIA", Nano-Polycrystalline Diamond (NPD)			
Nano-Polycrystalline Diamond (synthesis and cut)	NPD		Tetsuo Irifune, Toru Shinmei