

Facilities of the Institute for Planetary Materials, Okayama University (table of charge)

() is in charge of facilities

category	name	charge			
		charge to okayama university	charge to research center	charge to company	remarks
High-temperature, high-pressure apparatus	6-axis high-pressure apparatus, 6UHP-70 (Yamazaki)	1,000 yen/time	2,000 yen/time	2,000 yen/time	
	KAWAI-type multi-anvil high-pressure apparatus, USSA-5000 (Yoshino)	1,000 yen/time	2,000 yen/time	2,000 yen/time	
	KAWAI-type multi-anvil high-pressure apparatus, USSA-1000 (Yamazaki)	1,000 yen/time	2,000 yen/time	2,000 yen/time	
	Boyd-England-type Piston-cylinder apparatuses (Yamashita)	—	—	—	As a rule, consumables such as high-pressure cells are to be brought in by the user.
	MS800-type Piston-cylinder apparatuses (Yoshino)	1,000 yen/time	2,000 yen/time	2,000 yen/time	
	Depth of the Earth Quick Press-type Piston-cylinder apparatuses (Xue)	2,000 yen/day	2,000 yen/day	200 yen/hour	
	Internally heated pressure vessel (Yamashita)	0 yen/time	1,000 yen/time	1,000 yen/time	As the cost of pressure medium argon gas
	The high-pressure apparatus with DIA-type guide blocks (UHP-2000/20, AMAGAEL) (Yoshino)	1,000 yen/time	2,000 yen/time	2,000 yen/time	
	DII-type multi-anvil press with deformation facility (Yamazaki)	1,000 yen/time	2,000 yen/time	2,000 yen/time	
	Basset-type, symmetrical-type Externally heated diamond anvil cells (Yamashita, Mashino)	0 yen/time	5,000 yen/day	5,000 yen/day	As the cost of argon-hydrogen mixed gas for purging
	HDAC-V-type Externally heated diamond anvil cells (Xue)	1,000 yen/day	1,000 yen/day	100 yen/hour	
	Diamond anvil cells (Mashino)	—	2,000 yen/day	4,000 yen/day	
Cold-seal hydrothermal apparatuses (Xue)	1,000 yen/day	1,000 yen/day	100 yen/hour		
X-ray analytical equipment and Electron Microscope	Powder X-ray diffractometer Rigaku SmartLab (Yoshino)	800 yen/day	800 yen/hour	2,400 yen/hour	
	Micro-focused X-ray diffractometer Rigaku RintRapid II (Yoshino)	800 yen/day	800 yen/hour	2,400 yen/hour	
	Electron probe micro analyzer JXA-8800 (Yamashita, Yoshino)	0 yen/day	5,000 yen/day	5,000 yen/day	For consumable expenses such as filament, gas, etc.
	Field-emission Electron probe microanalyzer with Soft X-ray Spectrum Detector JXA-8530F (Yoshino)	2,000 yen/day	2,200 yen/hour	6,500 yen/hour	
	Field-emission Electron probe microanalyzer JXA-8530F (Kunihiro)	1,100 yen/hour	2,200 yen/hour	6,500 yen/hour	
	SEM JSM-7001F with EBSD and EDS (Yamazaki)	2,000 yen/day	2,100 yen/hour	6,300 yen/hour	
	Low Vacuum Field-emission SEM JSM-7001F with EDS (Kunihiro)	1,000 yen/hour	2,100 yen/hour	6,300 yen/hour	
	High Vacuum Field-emission SEM JSM-7001F with EDS (Kunihiro)	1,000 yen/hour	2,100 yen/hour	6,300 yen/hour	
	Transmission Electron Microscope JEM-7001F (Kobayashi)	1,000 yen/hour	2,100 yen/hour	6,300 yen/hour	
	X-ray fluorescence spectrometer PANalytical Axios Advanced (Kitagawa)	400 yen/hour	800 yen/hour	2,400 yen/hour	
Mass spectrometers	Multi-collector ICP-MS: Thermo Fisher Scientific Neptune plus (Kobayashi)	2,000 yen/hour	4,000 yen/hour	10,000 yen/hour	Ar gas +1500yen/hour
	ICP-MS: Thermo Fisher Scientific iCAP TQ (Kitagawa)	1,500 yen/hour	3,000 yen/hour	7,000 yen/hour	Ar gas +1500yen/hour
	High-resolution inductively coupled plasma Mass Spectrometer: Thermo Fisher Scientific ELEMENT XR (Kobayashi)	1,500 yen/hour	3,000 yen/hour	17,000 yen/hour	Ar gas +1500yen/hour
	TIMS: Thermo Fisher Scientific Triton plus Bundle 2 SEM/RPQ (Tanaka)	1,000 yen/hour	2,000 yen/hour	7,800 yen/hour	
	TIMS: Thermo Fisher Scientific Triton (Tanaka)	1,000 yen/hour	2,000 yen/hour	7,800 yen/hour	
	TIMS: Thermo Fisher Scientific Triton plus (Tanaka)	1,000 yen/hour	2,000 yen/hour	7,800 yen/hour	
	HR-SIMS: Cameca IMS-1280HR (Kunihiro)	2,000 yen/hour	5,000 yen/hour	27,000 yen/hour	
	SIMS: Cameca IMS-5f (Kunihiro)	2,000 yen/hour	2,000 yen/hour	11,000 yen/hour	
	Gas-IRMS: MAT 253 IRMS (Tanaka)	1,000 yen/hour	1,000 yen/hour	17,000 yen/hour	
	Noble Gas-MS: Micromass VG 5400 (Kitagawa)	1,000 yen/hour	2,000 yen/hour	10,000 yen/hour	
	Noble Gas-MS: Thermo Fisher Scientific Helix (Kitagawa)	1,000 yen/hour	2,000 yen/hour	17,000 yen/hour	
	Orbitrap Mass Spectrometer: Thermo Fisher Scientific Orbitrap Fusion (Potiszil)	1,400 yen/hour	2,800 yen/hour	11,000 yen/hour	
GC-MS: Thermo Fisher Scientific TRACE 1310 & ISQ 7000 (Potiszil)	1,000 yen/hour	2,000 yen/hour	11,000 yen/hour		

Spectrometers	Micro-Raman spectrometers (Izawa,Mashino)	1,000 yen/day	1,000 yen/hour	3,000 yen/hour	
	Micro Raman spectrometer: Thermo Fisher Scientific Raman Spectroscopy (Kobayashi)	500 yen/hour	1,000 yen/hour	3,000 yen/hour	
	Micro-FTIR spectrometer (Yamashita)	0 yen/day	5,000 yen/day	5,000 yen/day	For the cost of nitrogen gas for purging
	Low-frequency micro-Raman spectrometer (Xue)	1,000 yen/day	1,000 yen/hour	3,000 yen/hour	
	Near infrared micro-Raman spectrometer (Xue)	1,000 yen/day	1,000 yen/hour	3,000 yen/hour	
	Vacuum FTIR spectrometer (Yoshino)	2,000 yen/day	2,100 yen/hour	6,300 yen/hour	
	Micro-FTIR spectrometer: Thermo Fisher Scientific Micro FT-IR (Kobayashi)	800 yen/hour	1,500 yen/hour	3,000 yen/hour	
	High-resolution NMR spectrometer Bruker Avance NEO 400MHz (Xue)	self-measurement :40yen/5minutes requested-measurement :500yen/30minutes	1,000yen/30minutes	2,500yen/30minutes	
	Micro-Ruby fluorescence pressure measurement system (Xue)	1,000 yen/day	1,000 yen/day	100 yen/hour	
Other instruments	UV laser micro-machining system (Mashino)	1,000 yen/day	2,000 yen/day	4,000 yen/day	
	Sputtering system (Yamazaki)	2,000 yen/day	2,100 yen/hour	6,300 yen/hour	
	Wire-cut electrical discharge machining (Yamazaki)	1,000 yen/day	2,000 yen/day	4,000 yen/day	
	Pulsed Laser Deposition System (Yamazaki)	300 yen/day	400 yen/day	1,000 yen/day	
	Focused Ion Beam Instrument JIB-4500 (CASTEM) (Kobayashi)	1,000 yen/hour	2,100 yen/hour	6,300 yen/hour	
	Ion chromatographs Metrohm Compact IC 761 (Kitagawa)	1,500 yen/hour	3000 yen/hour	8,000 yen/hour	
	HPLC: Thermo Fisher Scientific Vanquish (Potiszil)	1,000 yen/hour	2000 yen/hour	11,000 yen/hour	
	Nanoflow High Performance Liquid Chromatograph Thermo Fisher Scientific Easy-nLC 1200 (Potiszil)	1,000 yen/hour	2000 yen/hour	11,000 yen/hour	
	High-temperature conversion elemental analyzer (Tanaka)	1,000 yen/hour	2000 yen/hour	11,000 yen/hour	
	Combustion elemental analyzer (Tanaka)	1,000 yen/hour	2000 yen/hour	11,000 yen/hour	
	GC-IsoLink system (Tanaka)	1,000 yen/hour	2000 yen/hour	11,000 yen/hour	
	Laser fluorination oxygen extraction system (Tanaka)	500 yen/hour	1000 yen/hour	11,000 yen/hour	
	Multifunctional organic sample preparation system: PAL RTC2000 (Potiszil)	500 yen/hour	1,000 yen/hour	11,000 yen/hour	
	Rheometer (Kameda)	1,000 yen/day	1,300 yen/hour	3,900 yen/hour	
	Atomic force microscope (Kameda)	1,000 yen/day	1,300 yen/hour	3,900yen/hour	
	Particle size and zeta potential analyzer (Kameda)	500yen/day	500 yen/hour	1,500 yen/hour	
	Surface area and pore size distribution analyzer (Kameda)	500yen/day	600 yen/hour	1,800 yen/hour	

*A separate technical assistance fee may be required depending on the research content.