

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

Department of Materials Science

Dipartimento di Scienza dei Materiali

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PRICE LIST

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Item	Laboratory	Test description	u.m.	Cost per unit
A.1	A_Archeo	Thermoluminescence authentication. Cost per measurement.	€/each	€ 225.00
A.2	A_Archeo	Thermoluminescence dating. Cost per measurement.	€/each	€ 1 100.00
A.3	A_Archeo	Optically Stimulated Emission dating. Cost per measurement.	€/each	€ 860.00
A.4	A_Archeo	Radiocarbon dating. Cost per measurement.	€/each	€ 480.00
A.5	A_Archeo	Dendrochronology (dating). Cost per measurement.	€/each	€ 156.00
A.6	A_Archeo	Elemental analysis (C, H, N, S). Cost per measurement.	€/each	€ 38.50
A.7	A_Archeo	Rehydroxylation dating. Cost per measurement.	€/each	€ 1 100.00
A.8	A_Archeo	Gravimetric Analysis for the determination of water content. Cost per measurement.	€/each	€ 852.00
B.1	B_Comib	Optometric analysis. Cost per measurement	€/each	€ 50.00
C.1	C_Fis_Chm_Mtr	Resistivity and Mobility measurement. Cost per sample.	€/sample	€ 102.00
C.2	C_Fis_Chm_Mtr	Resistivity and Mobility measurement at Low Temperature. Cost per sample.	€/sample	€ 202.00
C.3	C_Fis_Chm_Mtr	Solar Cell I-V characteristics. Cost per sample.	€/sample	€ 223.00
C.4	C_Fis_Chm_Mtr	QSSPCD Lifetime measurements. Cost per sample.	€/sample	€ 182.00
C.5	C_Fis_Chm_Mtr	LBIC measurement. Cost per sample.	€/sample	€ 228.50
C.6	C_Fis_Chm_Mtr	Thin Film Deposition (max 5x5 cm ²). Cost per deposition.	€/each	€ 213.00
C.7	C_Fis_Chm_Mtr	FTIR Spectroscopy at low temperature. Cost per sample.	€/sample	€ 201.00
C.8	C_Fis_Chm_Mtr	FTIR Spectroscopy. Cost per sample.	€/sample	€ 141.50
C.9	C_Fis_Chm_Mtr	UV-VIS and IR Photoluminescence. Cost per sample.	€/sample	€ 277.00

C.10	C_Fis_Chm_Mtr	UV-VIS and IR Photoluminescence at low temperature. Cost per sample.	€/sample	€	323.00
D.1	D_Lasmo	CG-MS analysis (within 2000 u.m.a. electron impact ionization). Cost per hour	€/hour	€	125.00
D.2	D_Lasmo	NMR Spectroscopy in liquid solution. Cost per hour.	€/hour	€	192.00
D.3	D_Lasmo	FTIR-ATR Spectroscopy (liquid and solid samples). Cost per hour.	€/hour	€	148.00
E.1	E_Lccc	Optical Microscopy Imaging (transmission or reflection configuration). Cost per hour.	€/hour	€	115.50
E.2	E_Lccc	Hot-Stage Optical Microscopy Imaging (transmission or reflection configuration). Temperature: -190°C ÷ 600°C. Cost per hour.	€/hour	€	148.50
F.1	F_MibSolar	Fabrication of DSC cells < 0.20 cm ² for component evaluation (1 dye + 1 electrolyte) (10 DSC cells)	€/each	€	860.00
F.2	F_MibSolar	Fabrication of DSC cells < 0.20 cm ² for component evaluation (1 dye + 5 electrolytes) (25 DSC cells)	€/each	€	1 370.00
F.3	F_MibSolar	I/V characteristics (current, voltage, maximum power, total efficiency). Cost per hour.	€/hour	€	246.00
F.4	F_MibSolar	External Quantum Efficiency measurements. (EQE or IPCE). Spectral response. Cost per hour.	€/hour	€	284.50
F.5	F_MibSolar	Internal Quantum Efficiency measurements. (IQE or APCE). Spectral response. Cost per hour.	€/hour	€	295.50
F.6	F_MibSolar	Absorption spectrum of dye sensitized TiO ₂ photoanodes (5 DSC Cells - 1 dye)	€/each	€	421.50
F.7	F_MibSolar	Absorption spectrum of dye sensitized TiO ₂ photoanodes (15 DSC Cells - 3 dyes)	€/each	€	941.50
F.8	F_MibSolar	DSC Logo - custom made image (12 logos - 5x5 cm ²)	€/each	€	2 606.00
F.9	F_MibSolar	Laser cutting. Cost per sample	€/sample	€	246.00
F.10	F_MibSolar	TiO ₂ Coating 10x10 cm ²	€/each	€	541.00
F.11	F_MibSolar	TiO ₂ Coating 10x10 cm ² (custom made image)	€/each	€	1 108.00
F.12	F_MibSolar	Electrochemical Impedance Spectroscopy (EIS) (1 PV cell)	€/each	€	114.00
G.1	G_MSNS	C-V measurements at room temperature. Single Frequency. Cost per hour.	€/hour	€	127.00
G.2	G_MSNS	C-V measurements at variable temperature (10 K ÷ 500 K). Single Frequency. Cost per hour.	€/hour	€	270.00
G.3	G_MSNS	EPR and EDMR measurements. X and Q band. Variable temperature (10 K ÷ 500 K). Cost per hour.	€/hour	€	424.00
H.1	H_Nanomat_Lab	Thermogravimetric Analysis (TGA). Cost per sample.	€/sample	€	132.00
H.2	H_Nanomat_Lab	Thermogravimetric Analysis coupled to Infrared Spectroscopy (TGA/FTIR). Determination of the composition of the gaseous reaction products. Cost per sample.	€/sample	€	198.00
H.3	H_Nanomat_Lab	Electron Spin Resonance. Cost per sample.	€/sample	€	209.00
H.4	H_Nanomat_Lab	FTIR-ATR Spectroscopy (liquid and solid samples). Cost per hour.	€/hour	€	148.00
I.1	I_Ombe	Atomic Force Microscopy (AFM) - μm-resolution images. Scans on two different regions and on two areas per region, with size between 3×3 and 100×100 μm ² . Cost per sample.	€/sample	€	330.00
I.2	I_Ombe	Atomic Force Microscopy (AFM) - nm-resolution images. Scans on one single region. Cost per sample.	€/sample	€	440.00
I.3	I_Ombe	Spectroscopic ellipsometry measurements on isotropic samples - thickness and refractive index in a spectral range selected between 190 and 1700 nm. Cost per sample.	€/sample	€	1 800.00

I.4	I_Ombe	Spectroscopic ellipsometry measurements on isotropic samples - thickness and refractive index in a spectral range selected between 190 and 1700 nm, obtained using a model optimized for a first sample (applicable on samples out of a series).	€/sample	€	250.00
I.5	I_Ombe	UV-vis-NIR transmission spectroscopy. Cost per sample (n samples ≤5)	€/sample	€	176.00
I.6	I_Ombe	UV-vis-NIR transmission spectroscopy. Cost per sample (n samples >5)	€/sample	€	137.50
I.7	I_Ombe	UV-vis-NIR near-normal incidence reflectance spectroscopy. Cost per sample (n samples ≤5)	€/sample	€	264.00
I.8	I_Ombe	UV-vis-NIR near-normal incidence reflectance spectroscopy. Cost per sample (n samples >5)	€/sample	€	198.00
J.1	J_Posylife	DSC for polymer analysis (3 runs). Cost per measurement.	€/each	€	160.00
J.2	J_Posylife	Time-Domain NMR analysis (TD-NMR). a) Determination of the proton content, b) determination of the rigid fraction in polymers (evaluation of the crystallinity). Single temperature experiment. Cost per measurement.	€/each	€	50.00
J.3	J_Posylife	Time-Domain NMR analysis (TD-NMR). Determination of the relaxation time T2 or T1 for the study of the crosslink density and homogeneity in elastomers. Single temperature experiment. Cost per measurement.	€/each	€	90.00
J.4	J_Posylife	Time-Domain NMR analysis (TD-NMR). Multiple Quantum Coherence Measurement for the study of crosslink density and homogeneity in elastomers. Single temperature experiment. Cost per measurement.	€/each	€	200.00
J.5	J_Posylife	Mechanical measurements of plastics and elastomers by means of Zwick dynamometer in traction or compression: determination of the elastic modulus, load at break, deformation at break. Minimum five specimens	€/sample	€	250.00
J.6	J_Posylife	Dynamic Mechanical Analysis (DMA) of plastics and elastomers: single frequency analysis, determination of storage modulus, loss modulus and tand.	€/sample	€	300.00
J.7	J_Posylife	Gel Permeation Chromatography for the determination of polymer molecular weight.	€/sample	€	100.00
L.1	L_Song	Non-invasive EDXRF Analysis. Cost per sample.	€/sample	€	200.00
L.2	L_Song	MICRO-RAMAN Spectroscopy. Half day cost (technical assistance included).	€/each	€	266.00
L.3	L_Song	MICRO-FTIR Spectroscopy. Half day cost (technical assistance included).	€/each	€	279.00
L.4	L_Song	Refractometry. Half day cost (technical assistance included).	€/each	€	253.00
L.5	L_Song	Laser Ablation ICP Mass Spectrometry. Half day cost	€/each	€	506.00
L.6	L_Song	Electron Impedance Spectroscopy. Half day cost	€/each	€	103.50
L.7	L_Song	UV-VIS-NIR Spectroscopy coupled to Integrating Sphere. Half day cost	€/each	€	253.00
L.8	L_Song	Wavelength resolved thermoluminescence (cost per day with assistance by personnel)	€/each	€	330.00
L.9	L_Song	X-ray induced luminescence (cost per day with assistance by personnel)	€/each	€	330.00
M.1	M_Sp_Semicond	UV/vis/IR Microluminescence. Cost per sample.	€/sample	€	275.00
M.2	M_Sp_Semicond	Triple Micro-Raman Spectroscopy. Cost per 0.5 day (technical assistance included).	€/each	€	266.00
M.3	M_Sp_Semicond	Triple Micro-Raman Spectroscopy, deep-UV excitation. Cost per 0.5 day (technical assistance included).	€/each	€	462.00
N.1	N_ss_NMR	Solid State NMR Spectroscopy. Cost per hour.	€/hour	€	280.50
O.1	O_Sefi	Static contact angle measurement (from 1 to 10 samples)	€/sample	€	70.00
O.2	O_Sefi	Static contact angle measurement (11th sample and up)	€/sample	€	60.00

O.4	O_Sefi	Advancing and receding contact angle measurement (11th sample and up)	€/sample	€	130.00
O.4	O_Sefi	Advancing and receding contact angle measurement (11th sample and up)	€/sample	€	130.00
O.5	O_Sefi	Testing with high-speed camera (1 day, with operator)	€/day	€	1 150.00