

Argomenti di tesi interne

Dove: Laboratorio Fisica Stato Solido

Quando: a partire dal 1.1.2020

Durata: full time: 9 mesi

Competenze necessarie: Lab. Fisica Materia; Fisica Stato Solido

Argomenti: Spettroscopia fotoelettronica

Outcomes: Tecniche ultra alto vuoto, XPS, metodi di caratterizzazione

Interazioni con: INRiM, NIS

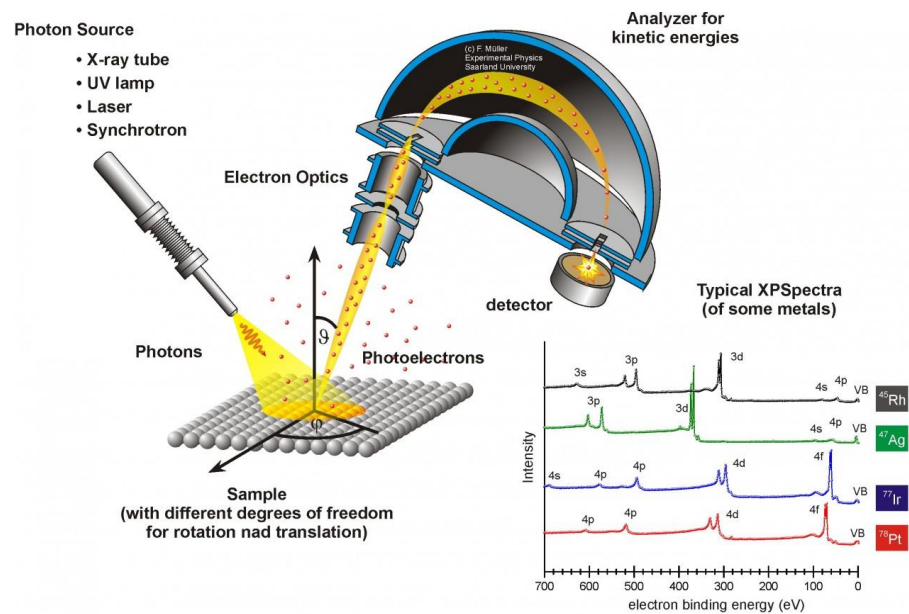
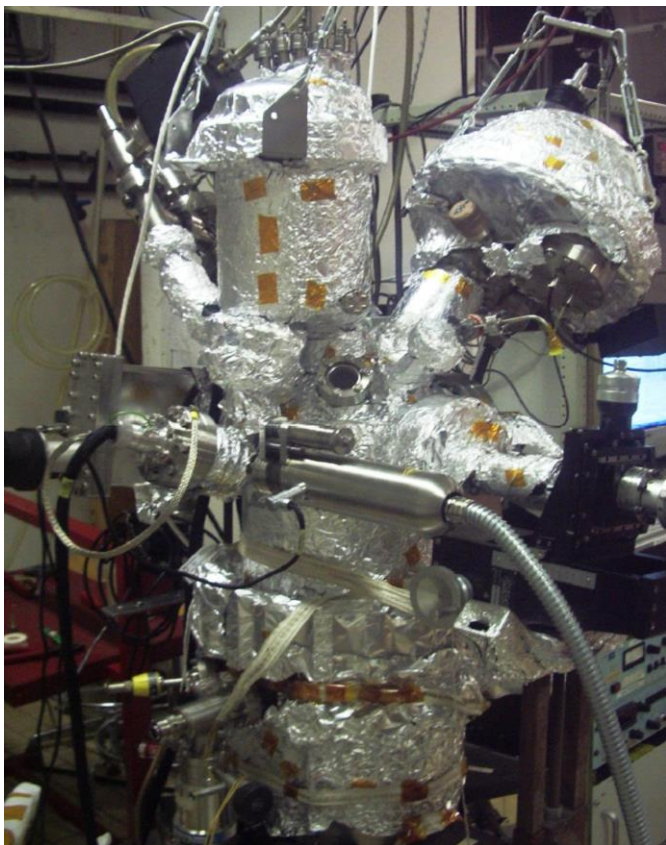
www.nis.unito.it

Laboratori presso centro dell'Innovazione,
via Quarelo 15

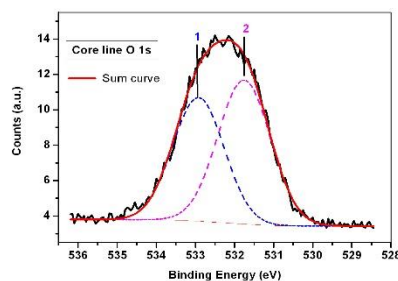
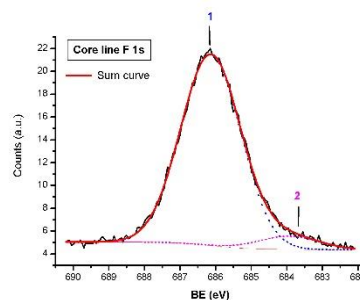
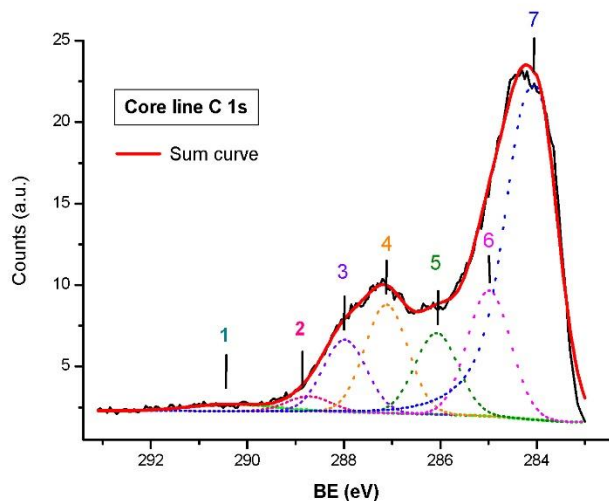
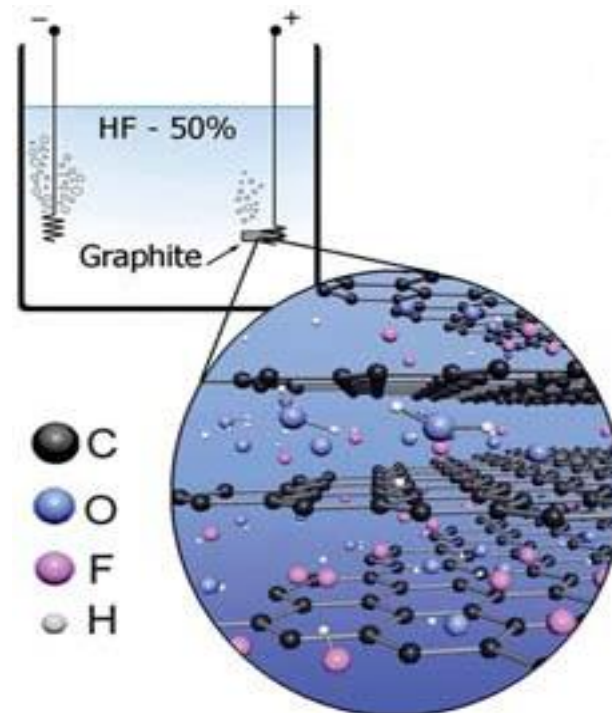
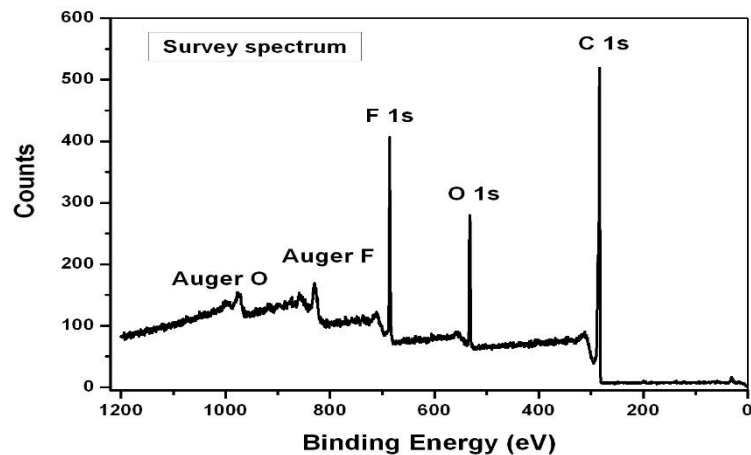
www.inrim.it



Installazione, calibrazione ed applicazione di un nuovo sistema XPS



Misure XPS: grafite fluorurata



Core lines	BE (eV)	FWHM (eV)	CONC. % at.	Assignment
C1s_1	290.33	2.00	1.21	Plasmonic peak
C1s_2	288.73	1.05	1.35	C-F ionic bond
C1s_3	287.98	1.05	6.55	O-C-O
C1s_4	287.12	1.05	9.84	C-F semi-ionic bond
C1s_5	286.08	1.05	7.38	C-O-C
C1s_6	284.99	1.05	11.41	C-H, C*-CF
C1s_7	284.02	1.05	38.54	Graphite
O1s_1	532.92	1.55	6.16	O-C-O
O1s_2	531.75	1.58	7.36	C-O-C
F1s_1	686.14	1.98	9.54	C-F semi-ionic bond
F1s_2	683.94	1.98	0.65	C-F ionic bond

Argomenti di tesi esterne

Dove: INRiM

Quando: a partire da 01.12.2019

Durata: full time: 9 mesi

Competenze necessarie: Lab. Fisica Materia; Fisica Stato Solido



CAMPUSNET-> LAUREARSI-> Elaborati e tesi disponibili->
Argomenti di tesi e stage presso INRiM - 2019

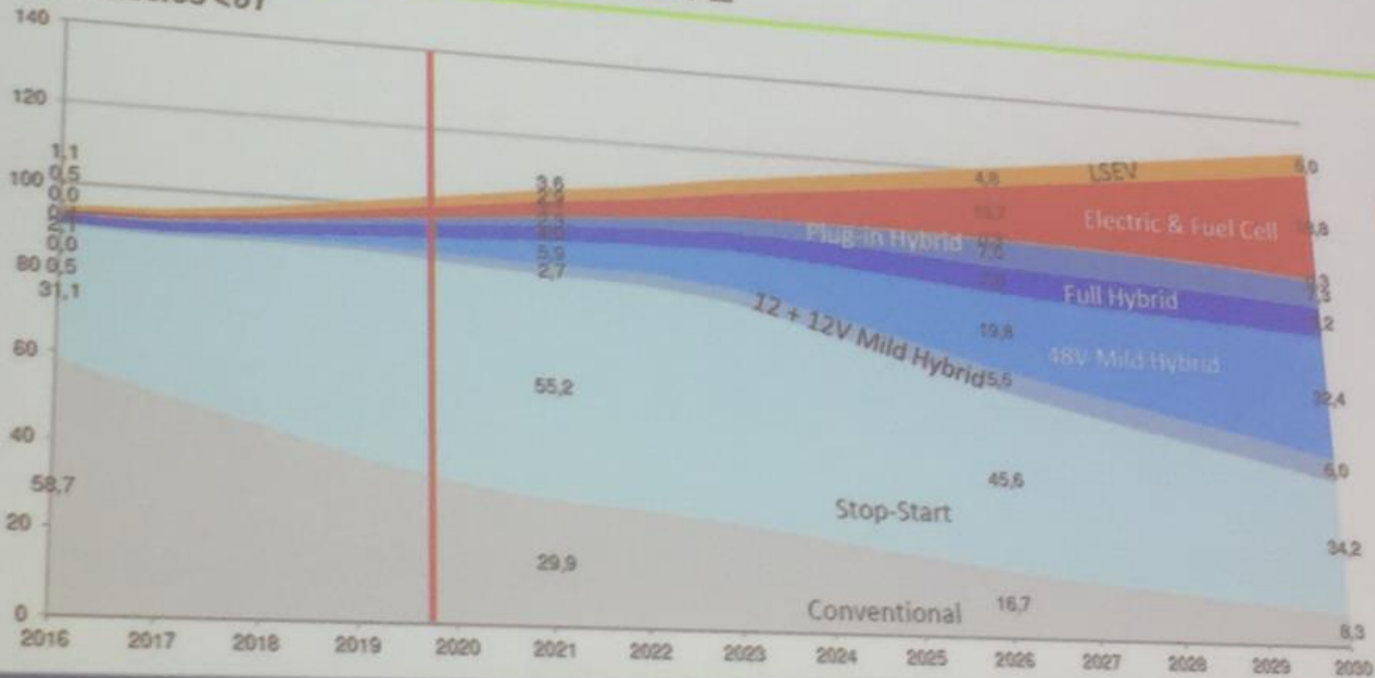
http://fisica.campusnet.unito.it/do/documenti.pl/Show?_id=ehmc

Visita Laboratori INRiM – venerdì 22 novembre 2019, h. 14.00

ELECTRIFICATION PROSPECTIVE



M cars Vehicles <6T



- From 0.5% to 23% Electric / Fuel Cell
- From 3% to 12.5% HV Hybrid
- From 0.5% to 30.5% LV Hybrid
- From 33% to 27.5% Stop-Start
- From 63% to 6.5% Conventional

REDUCTION OF CONVENTIONAL VEHICLES, AND EMERGENCE OF ALTERNATIVE HYBRID / ELECTRICAL ARCHITECTURES.

Argomenti di tesi esterne

Dove: Aziende nel territorio

Quando: a partire da 01.01.2020

Durata: full time: 9 mesi

Competenze necessarie: corsi caratterizzanti.

Fonderie 2a – Santena



TRIOM - Cambiano



ITT - Barge (CN)

ITT Friction Technologies
Barge (CN, Italy)
R&D Laboratory

OLSA – Rivoli

OLSA OPTICAL
LIGHTING
SYSTEMS
AUTOMOTIVE



CRF – Torino/Orbassano



ElettroRava SpA - Savonera



Vishay Semiconductors Italiana - Borgaro



Prima Electronics



Convergent Photonics - Torino



Paolo Olivero

