

Vito Sessa si è laureato in Fisica presso l'Università di "Los Andes", Mèrida, Venezuela. Attualmente è Ricercatore Universitario presso la Facoltà di Scienze, Dip. di Scienze e Tecnologie Chimiche dell'Università di Roma "Tor Vergata". Svolge attività didattica nel campo della Chimica Generale per i corsi di laurea in Biologia e Chimica, è titolare dei corsi di Chimica Generale Inorganica e Stechiometria, rispettivamente.

L'attività di ricerca ha riguardato lo studio XPS di catalizzatori supportati su basi diverse, su questi stessi composti ha effettuato misure XANES e EXAFS. Dal 1984 ha iniziato lo studio dell'assorbimento multifotonico in molecole complesse e di reazioni in fase gassosa indotte da laser. Dal 1990 ha iniziato la sintesi e la caratterizzazione di films di diamante da miscele di idrocarburi e idrogeno. Attualmente l'attività di ricerca è prevalentemente indirizzata alla preparazione e caratterizzazione strutturali e funzionali di nanocompositi e materiali nanostrutturati. In particolare si è dedicato negli ultimi anni allo sviluppo di sistemi basati su materiali di carbonio per la fotoemissione, l'elettroemissione e l'emissione di campo. Ha progettato e messo a punto diversi apparati, sia per la crescita di materiali nanostrutturati (nanodiamanti, nanotubi) con tecniche CVD, sia per l'analisi delle proprietà emittive dei materiali prodotti e dei sistemi con essi assemblati. Una specifica attività riguarda lo studio della diffrazione a raggi-X (XRD) di strati sottili e nanostrutture. Ha collaborato anche alla messa a punto di sistemi innovativi (policapillari) per la focalizzazione di raggi-X presso i LNF-INFN. E' autore di 90 Pubblicazioni su riviste internazionali, ha partecipato a numerosi Convegni e Workshop.

Vito Sessa is graduated in Physics to University of "Los Andes", Mèrida Venezuela. He is University Researcher at the Faculty of Sciences, Dip. of Sciences and Technologies Chemistries of the University of Rome "Tor Vergata". The search activity has regarded study XPS of catalysts supported on various substrate, on these same compounds it has carried out measures XANES and EXAFS. From 1984 it has begun the study of the multiphotonic absorption in complex molecules and of reactions in gaseous phase induced from laser. From 1990 it has begun the synthesis and the characterization of films of diamond from mixtures of hydrocarbons and hydrogen. Currently the search activity mostly is addressed to the structural preparation and characterization of nanocompound and material nanostructured. He has been dedicated during the last few years to the development of systems based on carbon materials for the photoemission, the electroemission and the field emission. It has planned and constructed various apparatus, is for the increase of nanostructured materials (nanodiamond, nanotubes) with techniques CVD, is for the analysis of the emission property of the produced materials and the systems with assembled they. A specific activity regards the study of the diffraction to beams-X (XRD) of thin layers and nanostructure. It has collaborated also to the putting to point of innovative systems (polycapillary) for the focalization of beams-X near the LNF-INFN.

And' author of 90 papers on international reviews, has participated to numerous Congress and Workshop.

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