

Chimie Anorganica Moderna: Cuanto-chimie si cristalografie

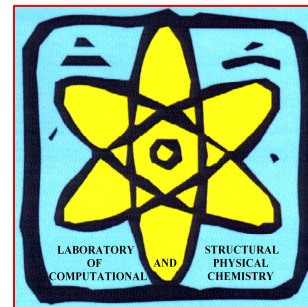
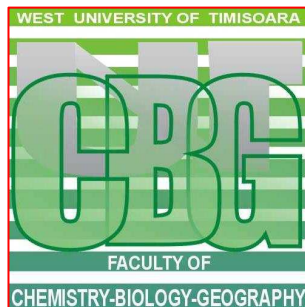
L1: STRUCTURA SOLIDĂ A MATERIEI

Conf. Dr. Mihai V. PUTZ

Chemistry Department, West University of Timisoara,
Pestalozzi Street No.16, Timisoara, RO-300115, Romania;
E-mails: mvputz@cbg.uvt.ro or mv_putz@yahoo.com ;
Web: <http://www.mvputz.iqstorm.ro>

Member of American Chemical Society
Member of European Society of Mathematical Chemistry

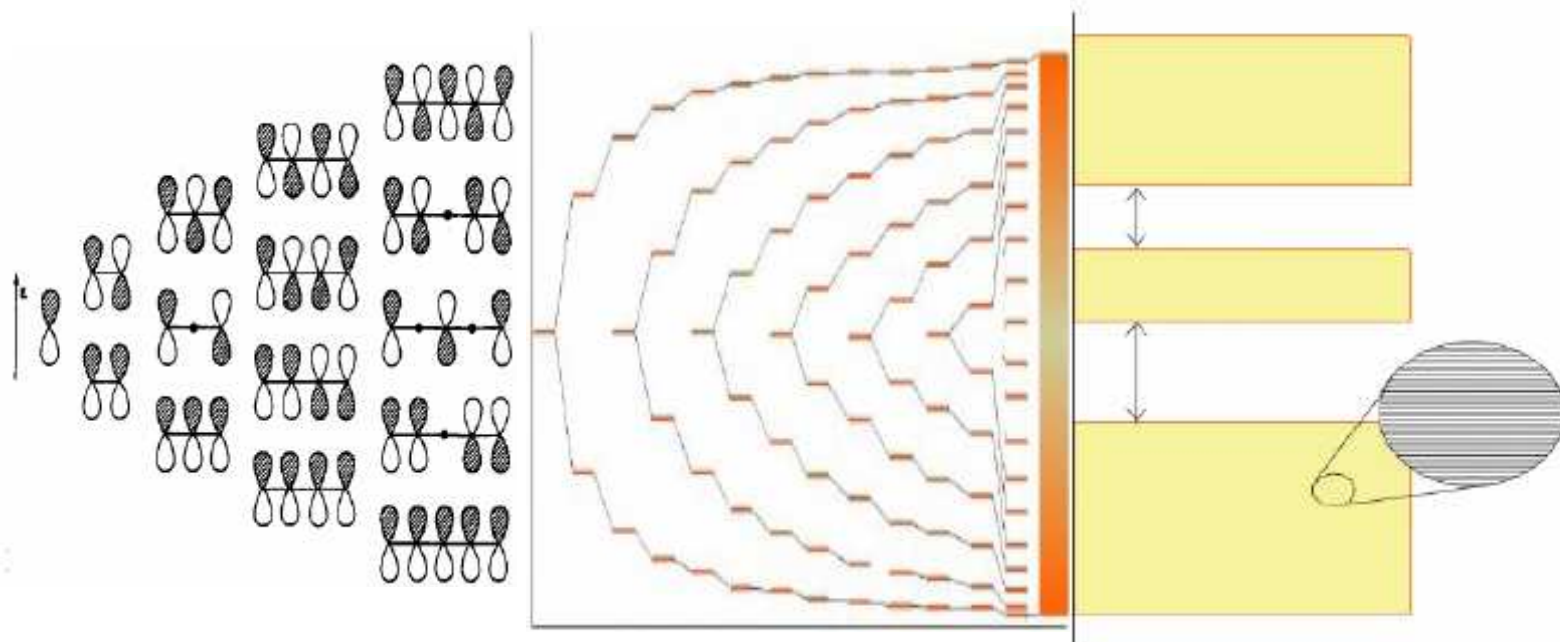
Editor in-Chief of *Int. J. Chem. Model.* (at NOVA Publishers)
Editor in-Chief of *Int. J. Environ. Sci.* (at SERIALS Publishers)
Guest Editor & Editor of *Int. J. Mol. Sci.* (at MDPI Organization)



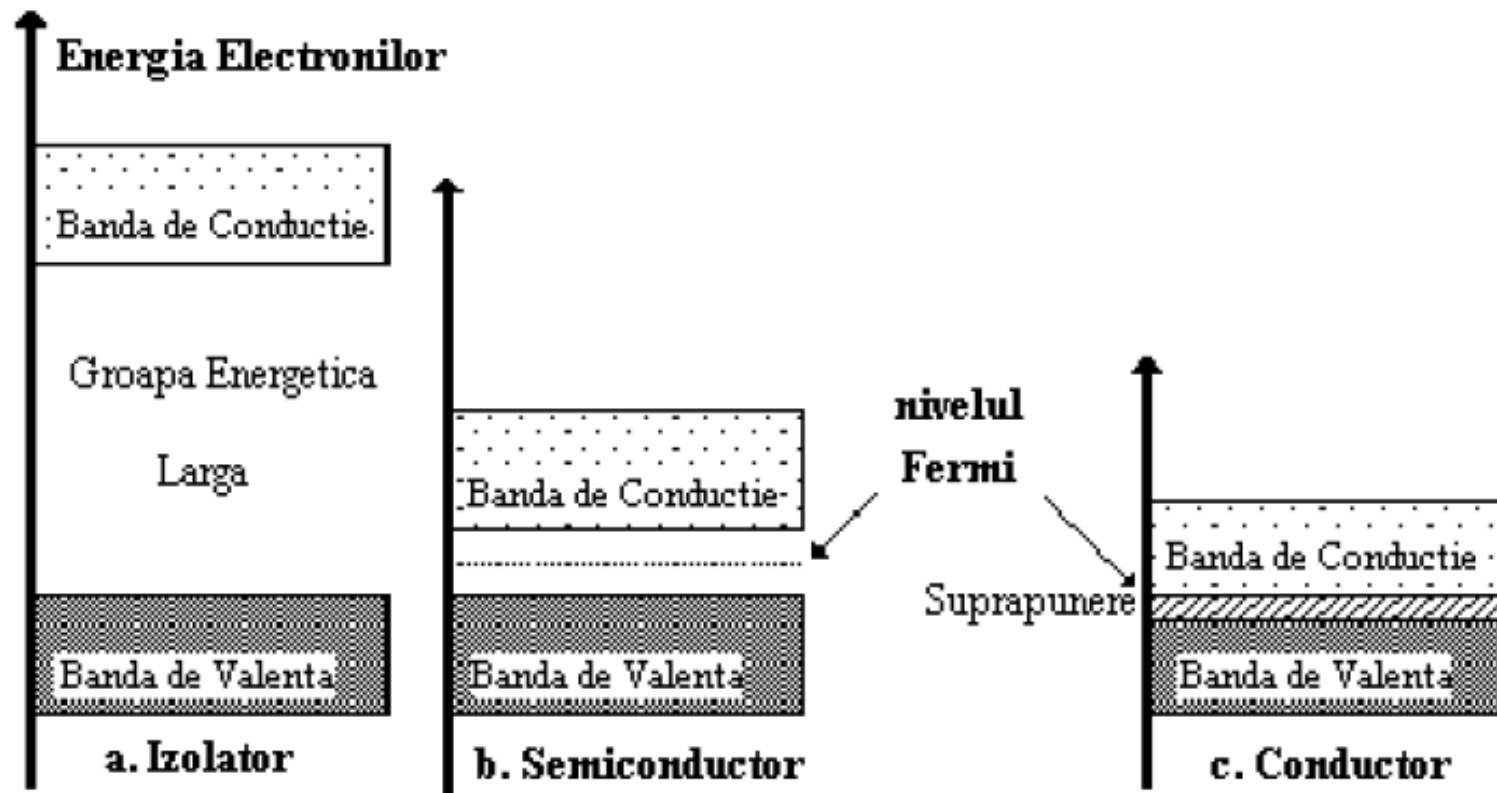
Legătura Metalică și Interacțiunile Metal-Ligand

Ce fel de legătură este, totuși, legătura metalică, și în ce raport se află cu legătura ionică și covalentă?

Se poate spune că *legătura metalică este o legătură covalentă nesaturată*, în sensul în care electronii de valență sunt foarte slab legați de atomii din legătura metalică.

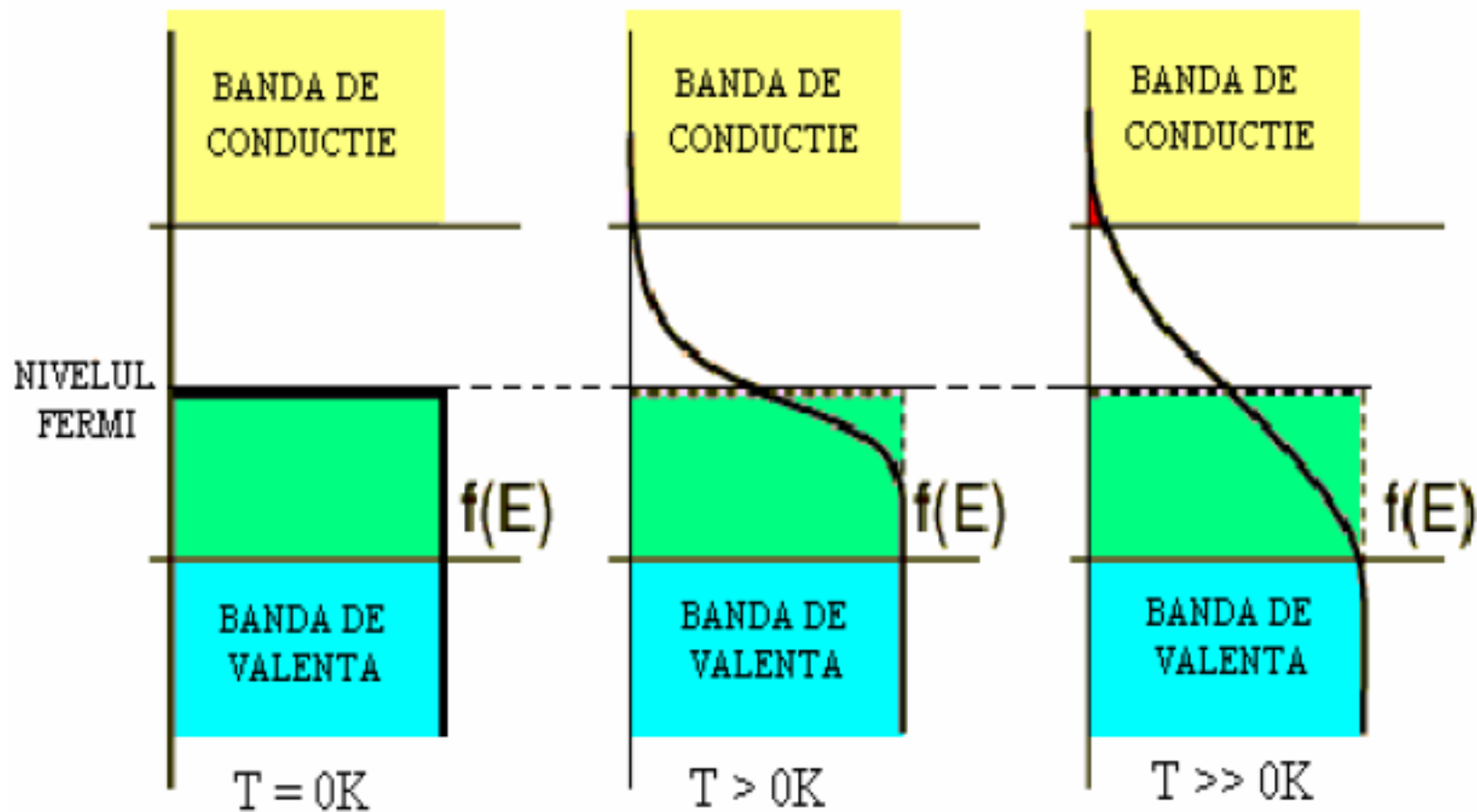


Legătura Metalică și Interacțiunile Metal-Ligand



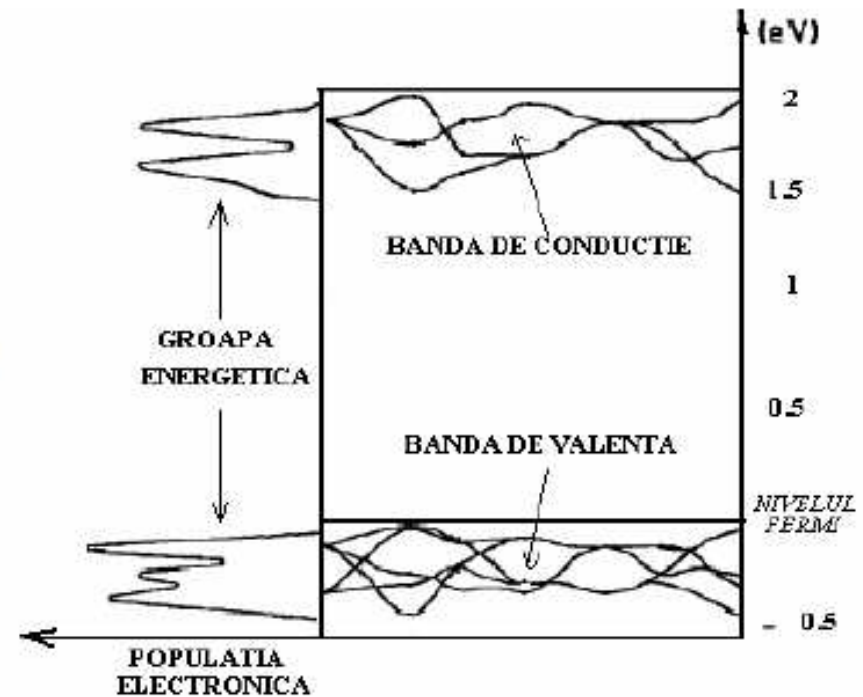
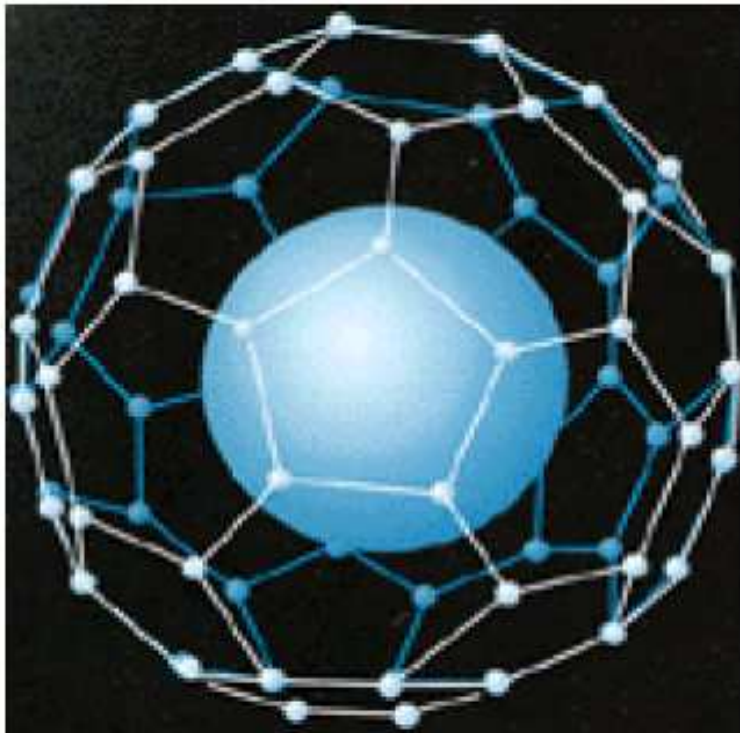
Legătura Metalică și Interacțiunile Metal-Ligand

statistica Fermi-Dirac

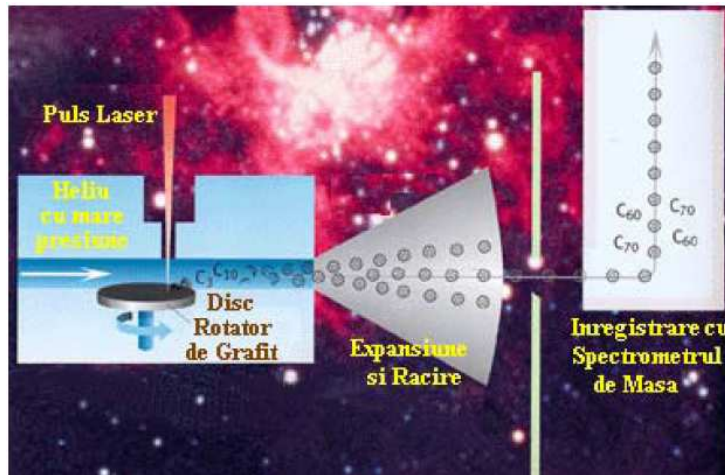


Legătura Metalică și Interacțiile Metal-Ligand

benzile electronice în solid nu sunt regulate



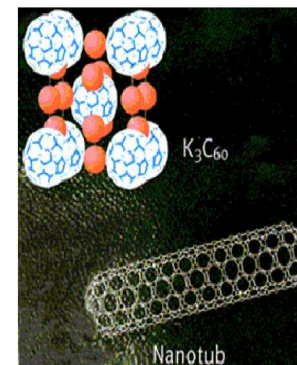
A aparut imediat întrebarea: *Poate exista atomul de carbon și în alte forme decât cele consacrate de grafit și de diamant? Evidența experimentală spune că Da. Atunci, cum sunt constituiți acești clusteri?*



(C_{60} și C_{70})

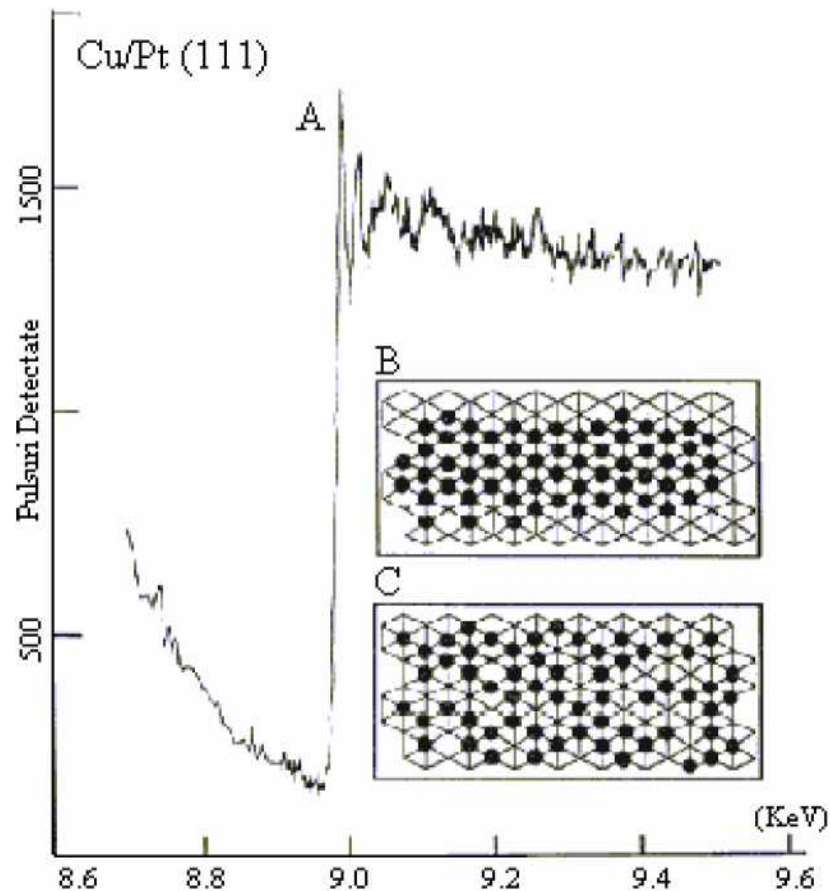
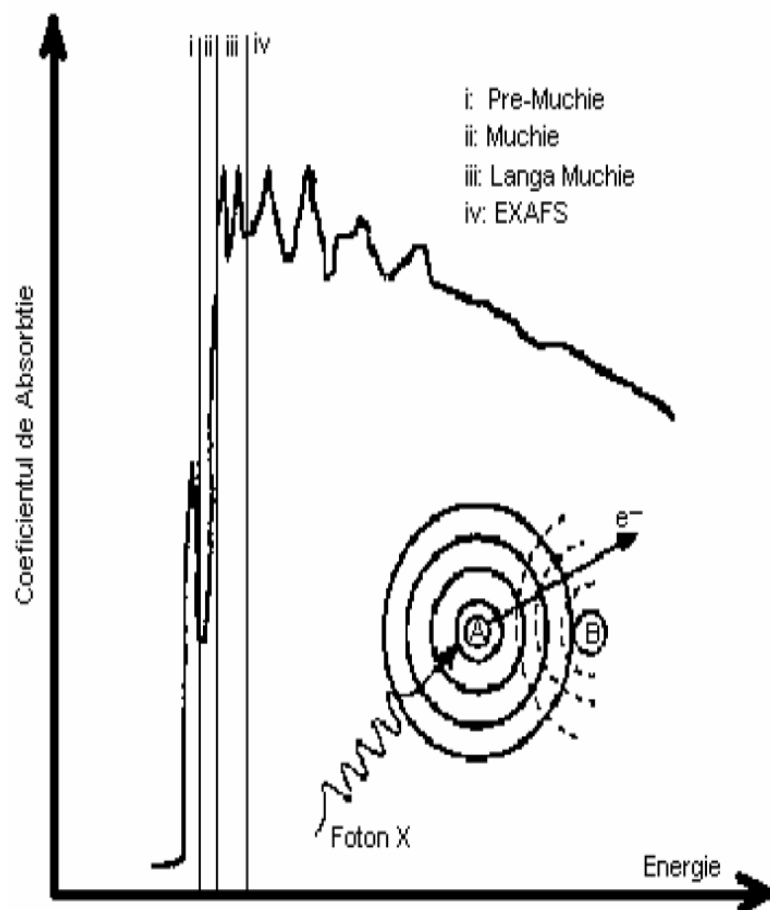
Dr. Richard E. Smalley

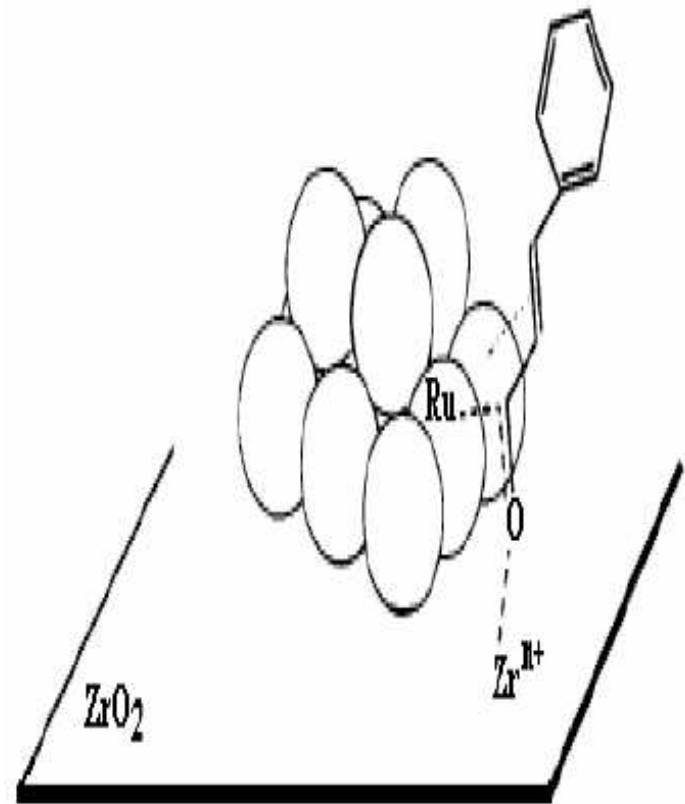
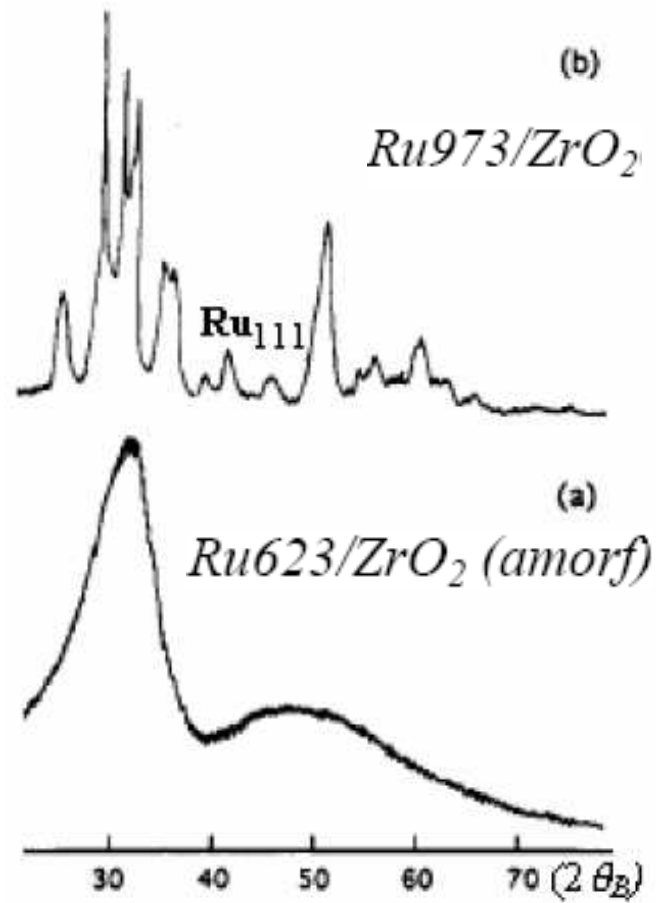
Buckminster Fuller



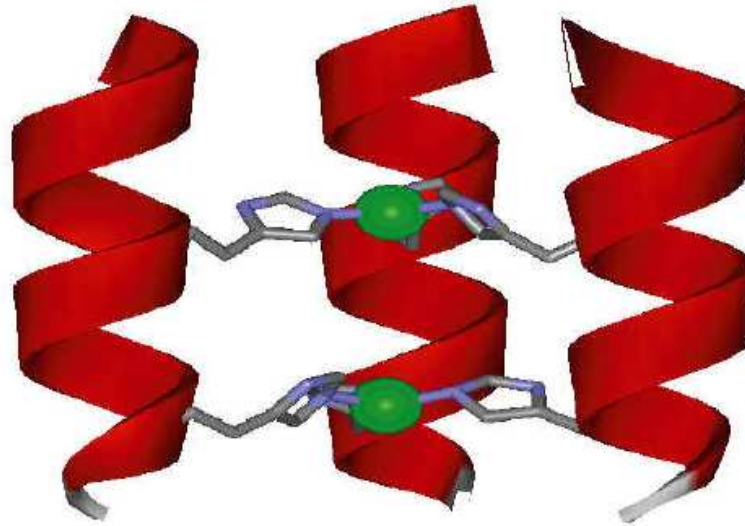
EXAFS

Extended X-Ray Absorption Fine Structure

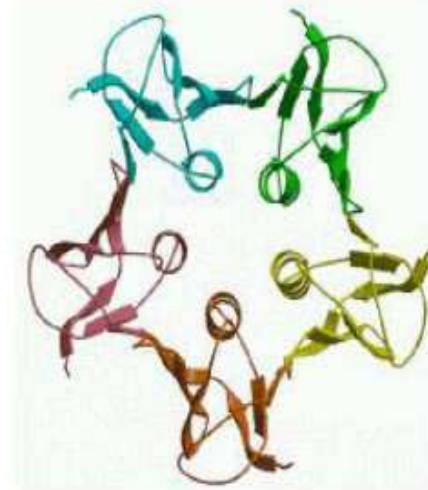
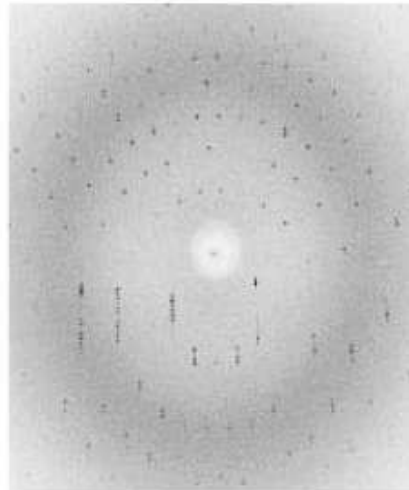




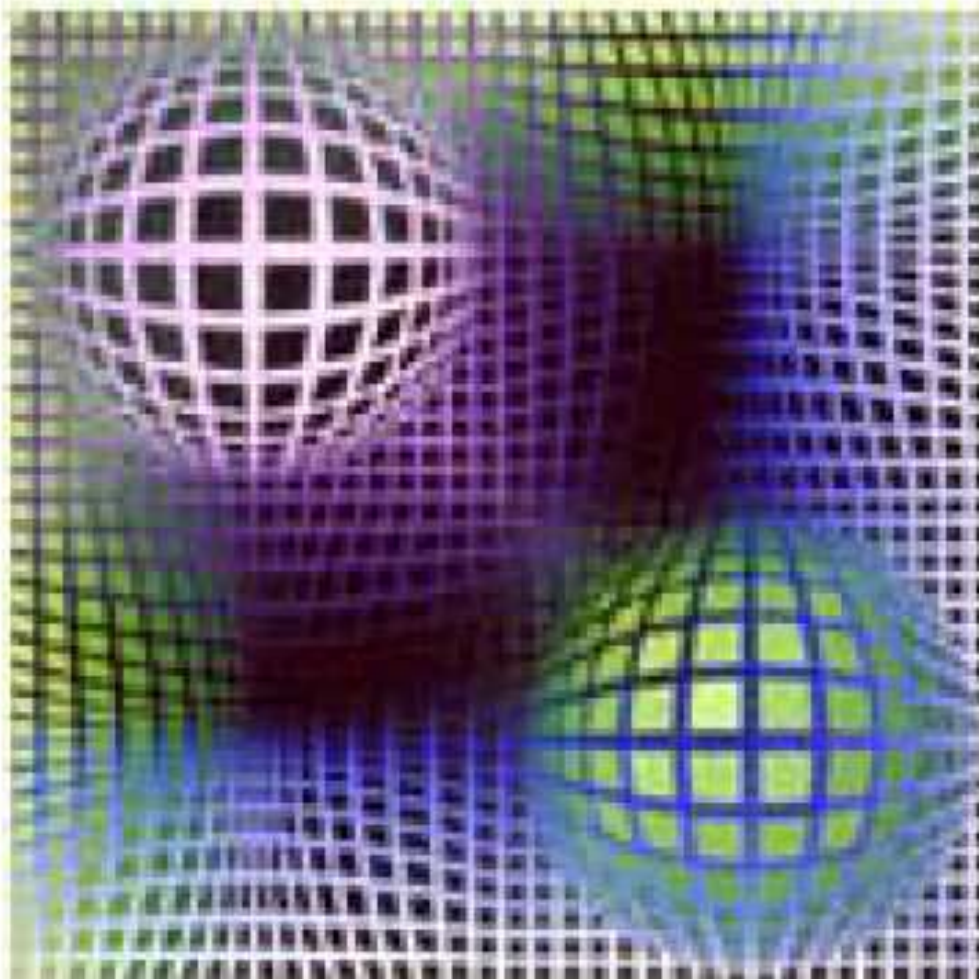
metaloptidele



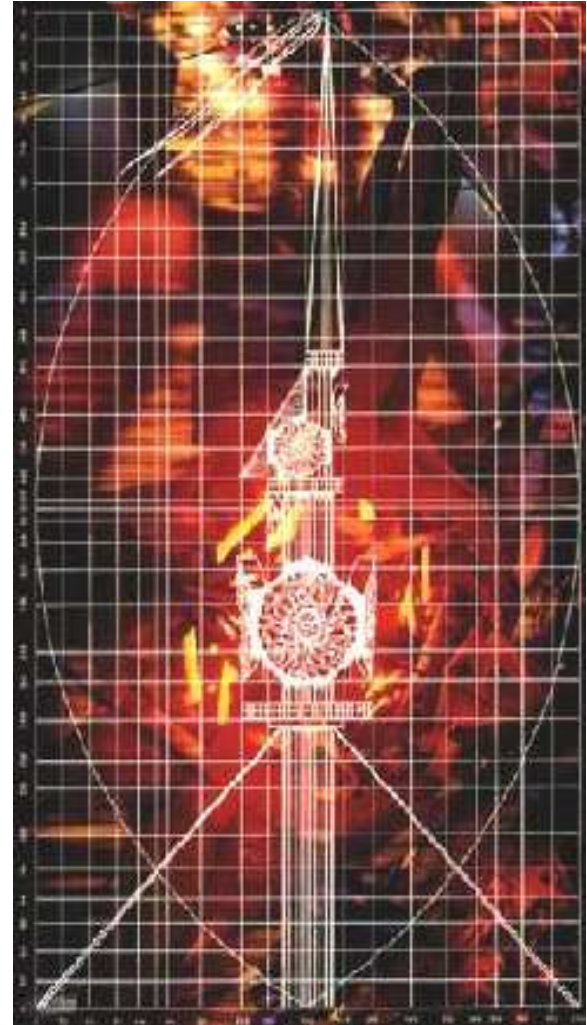
cristalizarea proteinei



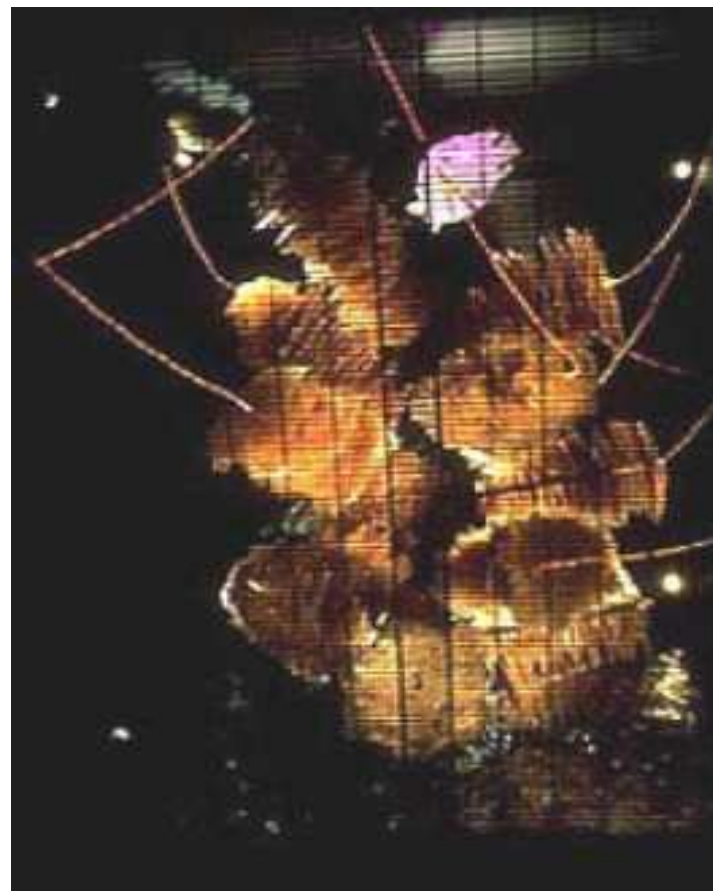
Imaginariul structural la Vasarely



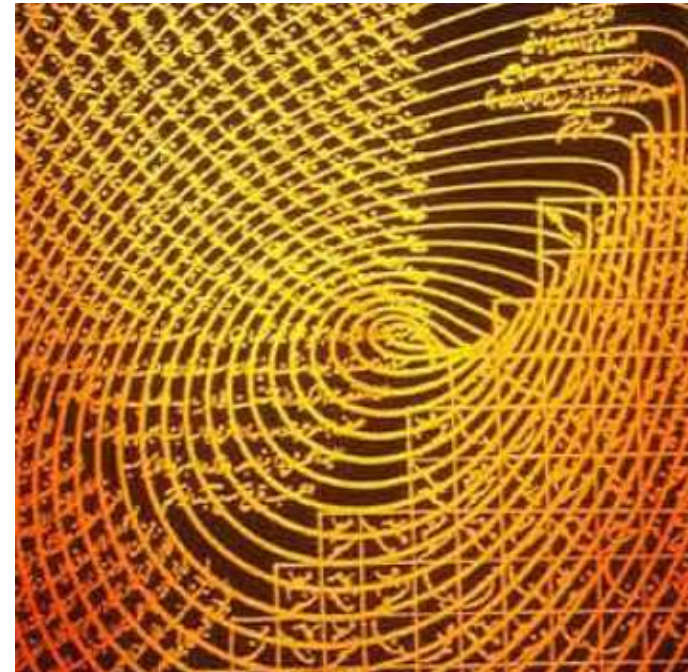
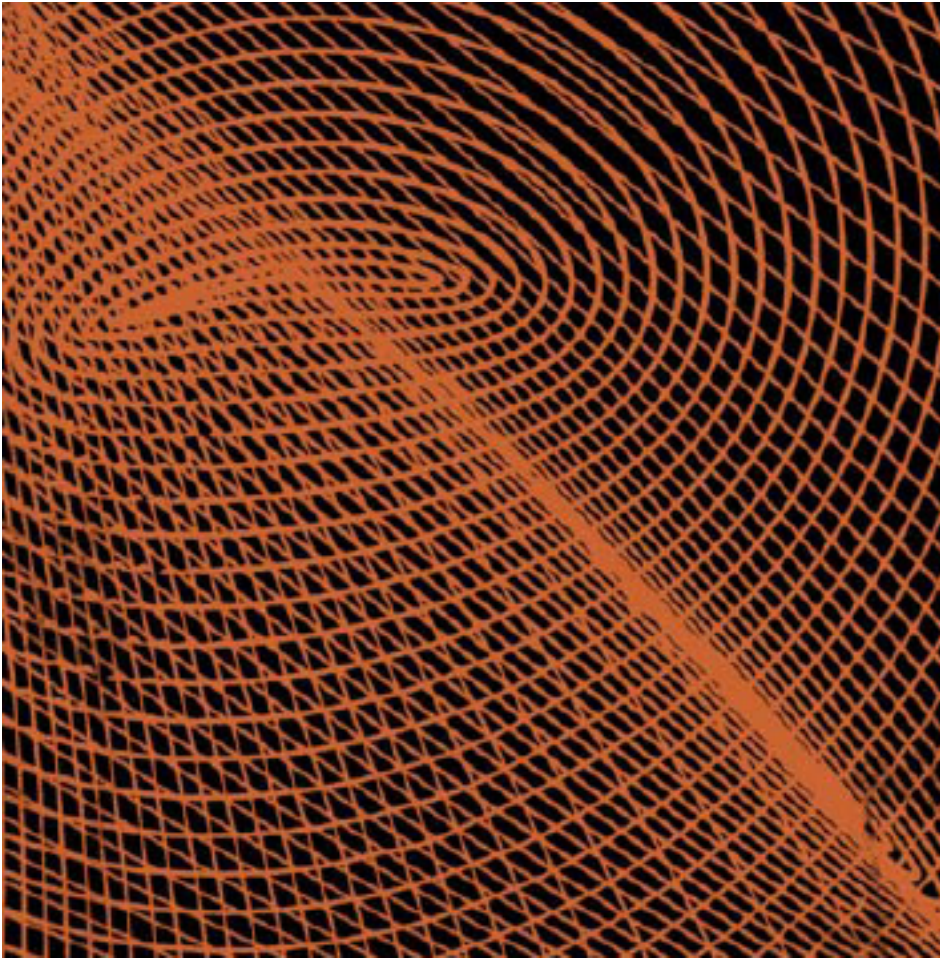
Materia cibernetică (1974) la Schöffer



Mireasa electrică (1989) la Lijn



Spații cuantificate (1973) la Paola Montalcini



„Pasărea Măiastră”



„Coloana Fără de Sfârșit”

