

Processing of Nanocomposites

2018

Lectures taught at the PhD school in
"Chemical Sciences"
of the Department of Chemistry, Life Sciences and Environmental Sustainability
of the University of Parma

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Lecture #	
1/ 2	Langmuir Monolayers Amphiphiles π -A Isotherms Fluorescence Microscopy X-Ray Reflectivity
3/ 4/ 5	Langmuir/Blodgett/Kuhn Multilayer Assemblies Transfer of Monolayers Surface Plasmon Spectroscopy (SPR) Waveguide Spectroscopy Anisotropic Thin Films Nonlinear Optics, Pockels Effect
6/ 7	Self-Assembled Monolayers (SAMs) Thiol-SAMs AFM/STM Nucleation and Growth of Inorganic Crystals Biofunctional Architectures Surface Plasmon Fluorescence Spectroscopy
8	Layer-by-Layer Assemblies Polyelectrolytes Solution-Adsorption Dendritic Polyelectrolytes Layer-by-Layer Deposition LED Nanocapsules Nanotubes Patterned Deposition Electro-Active LbL Assemblies