



Thin Film Deposition

SOL GEL, Dip-Coating & Spin-Coating

CEA-LITEN, France



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Material class:	Silicon	Polymer X	Metal	Ceramic X	Glass X	Organic X	Other
Short technology description:	CEA/LITEN develops solgel formulations for a wide variety of applications where films of inorganic polymer networks or hybrid organic/inorganic materials need to be deposited. For example, we synthesize sols giving access to silica, metal oxide, organo-silica or nano composites materials. We can synthesise and integrate nanoparticles (metallic, mixed oxides, rare-earths oxides, etc) into host matrices of various designs. Our laboratory is also well-equipped for the deposition of films of solgel-derived materials and for the manipulation of photosensitive materials. We can also combine the syntheses of organic polymers with that of nanoparticle dopants themselves synthesised via solgel technique. We also develop solgel materials for the molding of monoliths.						
Typical structures and designs:			Large Area Dip-Coater (1mX2m substrates)				
			22-inch Spin-Coater				