



Publications on international, peer-referred Journals

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Fundamental atomic-scale processes in Si film growth by plasma-enhanced chemical vapour deposition from ab initio and classical molecular dynamics simulations, poster presented S. Cereda IVC-17/ICSS-13 Conference, Stockholm (Sweden), 2-6 July 2007.

Modeling of ions and radicals bombardment on Si surfaces, S. Cereda "Vibrations at Surfaces", Erice (Italy), 20-26 July 2007.

Modeling and understanding the interface kinetics of amorphous-crystalline systems, invited talk presented by A. Mattoni at the Workshop "LASERION 2007", July 1-5, 2007 Schloss-Ringberg (Germany)

A Multiscale model of the Plasma Assisted Deposition of nanocrystalline Silicon, oral contribution presented by C.Cavallotti at EURO-CVD XVI, Den Haag (NL), 16-21 Sept 2007.

How hydrogen solves problems caused by other hydrogen: low/temperature Si(001) crystalline growth in plasma enhanced chemical vapour deposition, seminar presented by F. Montalenti at the University of Roma-Due "Tor Vergata", Rome (Italy), November 21st 2007.

Atomically informed models of microstructure evolution of nanocrystalline materials, invited talk presented by A. Mattoni at the Workshop on "Mathematical models for dislocations" December 13, 2007, Roma (Italy)

Atomistic simulations of silicon nanocrystals growth invited talk presented at the International workshop on "Modeling and computational methods in fluid dynamics and material science: towards the challenge of the nanoscales", December 19-22, 2007, Bressanone (Italy)

Multi Scale Simulations of Epitaxial Growth, invited talk presented by C. Cavallotti at the DGKK kinetic seminar of the German Association for Crystal Growth and at the IKZ at Berlin, 12-15 March 2008

Surface Photovoltage Spectroscopy investigation of hydrogenated nanocrystalline Si thin films A.Cavallini, D. Cavalcoli, D Natalini, D. Chrastina and G. Isella, BIAMS 2008 29 June- 3 July Toledo, Spain) Beam Injection Assesment of Microstructures in Semiconductors

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Atomic-scale theoretical modelling of surface phenomena: thin-film growth simulations, invited talk presented by F. Montalenti at the 10th International Conference-School “Advanced Materials and Technologies”, Palanga (Lithuania), 27-31 August 2008

Growth phenomena and transformation kinetics of nanocrystalline silicon, invited talk presented by A. Mattoni at Fall E-MRS Meeting, September 14-19, 2008 Warsaw (Poland)

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