MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING

Functional Materials for (Opto)electronics, Sensors, Detectors, Biotechnology, and Green Energy.

AUTHOR INFORMATION PACK

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Coverage will include: advanced lithography for submicron devices; etching and related topics; ion implantation for dopant engineering; damage evolution and related issues; plasma and thermal CVD; rapid thermal processing; ultra low energy implantation: physics, limitations and perspectives; gettering procedures for ULSI; advanced metallization and interconnects schemes; thin dielectric layer, oxidation; cleaning procedures for ULSI devices; compound semiconductor processing; physical modelling of processing (ion implantation, metal deposition, oxidation, etching, etc.): molecular dynamics, ab-initio methods, Monte Carlo, etc.; new physical models in commercial simulation platforms for the design and modelling of advanced devices; equipment modelling; new materials and processes for discrete and integrated circuits; heterostructures and quantum devices; engineering of the electrical and optical the properties of semiconductors; crystal growth: mechanisms, reliability, defect density intrinsic impurities and defects.

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[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, J. Sci. Commun. 163 (2010) 51–59.
Reference to a book:
[2] W. Strunk Jr., E.B. White, The Elements of Style, fourth ed., Longman, New York, 2000.
Reference to a chapter in an edited book:
[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), Introduction to the Electronic Age, E-Publishing Inc., New York, 2009, pp. 281–304.
Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/, 2003 (accessed 13.03.03).

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