



SURFACE AND COATINGS TECHNOLOGY

An international journal devoted to the science and application of advanced surface treatments for improvement of material properties

AUTHOR INFORMATION PACK

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DESCRIPTION

Surface and Coatings Technology is an international archival journal publishing scientific papers on surface and interface engineering to modify and improve the surface properties of materials for protection in demanding contact conditions or aggressive environments, or for enhanced functional performance. Contributions range from original scientific articles concerned with applied research or direct applications of coatings, to invited reviews of current technology in specific areas. Papers submitted to this journal are expected to be in line with the following aspects in processes, and properties/performance:

A. Processes: Physical and chemical vapour deposition techniques, thermal and plasma spraying, surface modification by directed energy techniques such as ion, electron and laser beams, thermochemical treatment, wet chemical and electrochemical processes such as plating, sol-gel coating, anodization, plasma electrolytic oxidation, etc., but excluding painting.

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Sputtering; Atomic Layer Deposition; Surface Engineering; Self-healing; Tribology, Biomaterials; Oxides; Nitrides; Carbides

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Thermal spraying; Low friction films/solid lubricants by vacuum processes; Tribology; Corrosion protection; Microscopic characterization (FEG-SEM, FIB)

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Thin Films; Primarily nitrides, carbides and DLC; Oxides prepared by low pressure plasmas; Nanocomposites and nanostructured thin films; Metallic and optically transparent coatings. Focus on mechanical and biomedical applications; Surface analysis (XPS, AES, TOFSIMS); Structural analysis (XRD, TEM).

I. Petrov, Frederick Seitz Materials Research Lab., University of Illinois at Urbana-Champaign, 104 S. Goodwin Avenue, Urbana, Illinois, IL 61801, USA

Sputter deposition; Materials characterization; Epitaxy; Transition metal nitrides; Hard coatings

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Surface engineering technologies; Thin films and coatings; Tribological coatings; Nanostructured materials; Nanoscale manufacturing technologies; Laser materials processing

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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).

Reference to a dataset:

[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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