



INTERNATIONAL BIODETERIORATION & BIODEGRADATION

The Official Journal of the [International Biodeterioration and Biodegradation Society](#)

AUTHOR INFORMATION PACK

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DESCRIPTION

International Biodeterioration and Biodegradation publishes original research papers and reviews on the **biological causes of deterioration or degradation**.

- The causes may be macro- or microbiological, whose origins may be aerial, aquatic, or terrestrial.
- The effects may include corrosion, fouling, rotting, decay, infection, disfigurement, toxification, weakening or processes that liquefy, detoxify, or mineralize.
- The materials affected may include natural, synthetic or refined materials [such as metals, hydrocarbons and oils, foodstuffs and beverages, pharmaceuticals, cellulose and wood, plastics and polymers, fibres, paper, leather, waste materials or any other material of commercial importance]; and structures or systems [such as buildings, works of art, processing equipment, etc.] as well as hazardous wastes, and includes environmental and occupational health aspects resulting from the activities of the biological agents described above.

Papers on all aspects of cause, mode of action, treatment, protection and prevention, analysis and testing, detoxification, upgrading, commercial implications, biocides and substitutes and related areas are welcome. However, papers that are strictly related to engineering aspects of biotechnological processes and those that aim at developing or assessing mathematical-based predictive models used in the designing of biotechnological processes are excluded.

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AUDIENCE

Materials scientists, applied and industrial microbiologists, microbiologists, food scientists.

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INTRODUCTION

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International Biodeterioration & Biodegradation publishes original research papers and reviews on the biological causes of deterioration or degradation.

- The causes may be macro- or microbiological, whose origins may be aerial, aquatic, or terrestrial.
- The effects may include corrosion, fouling, rotting, decay, infection, disfigurement, toxification, weakening or processes that liquefy, detoxify, or mineralize.
- The materials affected may include natural, synthetic or refined materials [such as metals, hydrocarbons and oils, foodstuffs and beverages, pharmaceuticals, cellulose and wood, plastics and polymers, fibres, paper, leather, waste materials or any other material of commercial importance]; and structures or systems [such as buildings, works of art, processing equipment, etc.] as well as hazardous wastes, and includes environmental and occupational health aspects resulting from the activities of the biological agents described above.

Papers on all aspects of cause, mode of action, treatment, protection and prevention, analysis and testing, detoxification, upgrading, commercial implications, biocides and substitutes and related areas are welcome. However, papers that are strictly related to engineering aspects of biotechnological processes and those that aim at developing or assessing mathematical-based predictive models used in the designing of biotechnological processes are excluded.

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Eaton, R.A., Hale, M.D.C., 1993. *Wood - decay, pests and protection*. Chapman and Hall, London.

Dillon, H.K., Heinsohn, Miller, J.D., (Eds.), 1996. *Field guide for the determination of biological contaminants in environmental samples*. American Industrial Hygiene Association, Fairfax, VA.

Adan, O.C.G., 1994. *On the fungal defacement of interior finishes*, PhD thesis, Eindhoven University of Technology, Eindhoven, The Netherlands.

Canale-Parola, E., 1992. Free-living saccharolytic spirochetes: The genus *Spirochaeta*. In: Balows, A., Truper, M., Dworkin, M., Harder, W., Schleifer, K.H., (Eds.), *The Prokaryotes* (2nd ed.), Vol. 4, Springer-Verlag, New York, pp. 3524-3536.

Huang, S.J., Bell, J.P., Knox, J.R., Atwood, H., Bansleben, D., Bitritto, W., Broghard, W., Chapin, T., Leong, K.W., Natarjan, K., Nepumuceno, J., Roby, M., Soboslai, J., Shoemaker, N., 1976. Design, synthesis and degradation of polymers susceptible to hydrolysis by proteolytic enzymes. In: Sharples, J.M., Kaplan, A.M., (Eds.), *Proceedings of the Third International Biodegradation Symposium*, Applied Science, London, pp. 731-741.

Daniel, G., Nilsson, T., 1986. Ultrastructural observations on wood-degrading erosion bacteria. IRG/WP/1283. The International Research Group on Wood Preservation, Stockholm.

Carey, J., Grant, C., 2002. *The treatment of dry rot in historic buildings*. Cathedral Communications Ltd, online at <http://www.buildingconservation.com/articles/rot/rot.htm>.

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