

RADIATION PHYSICS AND CHEMISTRY
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Editors-in-Chief

C.T. Chantler (*Radiation Physics*), University of Melbourne School of Physics, Parkville, 3010, Australia
Phone: +61 (0)3 8344 5437 (Office, Room 505, 5th floor)
chantler@unimelb.edu.au

J. LaVerne, University of Notre Dame Radiation Laboratory, IN 46556, Notre Dame, Indiana, USA
Radiation Chemistry, Particle Track Structure, Interfacial Radiation Effects, Radiation Effects in Condensed Phases,
Heavy Ion Radiolysis
Email: laverne.1@nd.edu

P. Ulański (*Radiation Processing*), Lodz University of Technology Institute of Applied Radiation Chemistry,
Wroblewskiego 15, 93-590, Lodz, Poland
[Fax: (+48) 42 684 0043; E-mail: piotr.ulanski@p.lodz.pl]

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A. Adhikary Oakland University, 146 Library Drive, MI-48309-4451, Rochester, USA

Elucidation of the mechanistic pathways involved in direct interaction of radiation with DNA, Formation of site-specific aminyl radical via dissociative electron attachment to azidonucleosides and to their derivatives (nucleotides, oligomers etc.) as well as subsequent reactions of these aminyl radicals, Elucidation of mechanisms of radiomodifying actions by minor-groove-ligands, e.g., bis-benzimidazole derivative, Hoechst 33258 and its analogs, Elucidation of mechanisms of radiomodifying actions by nanoceria.

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X. Coqueret (*Radiation-induced polymerization and grafting, natural polymers, composite materials*), Institute of Molecular Chemistry Reims, BP

1039, 51687, Reims Cedex 2, France

M. Davidková Nuclear Physics Institute Czech Academy of Sciences, 250 68, Rez, Czechia

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M. Ferry French Alternative Energies and Atomic Energy Commission Saclay Center, 91191, Gif sur Yvette, France
Radiation chemistry, Polymers, Ageing.

S. Mezyk California State University Long Beach Department of Chemistry and Biochemistry, 1250 N. Bellflower Blvd, 90840-9401, Long Beach, United States of America

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K. Morehouse (*Radiation Processing, Food Irradiation*), Center for Food Safety and Applied Nutrition, 6502 South Archer Road, IL 60501, College Park, USA

A. Prakash (*Food Quality, Food Processing, Food Irradiation*), Chapman University Food Science Program, One University Drive, CA 92866, Orange, USA

A. Whittaker (*Polymers*), The University of Queensland Centre for Advanced Imaging, Research Road, Brisbane, 4072, Australia