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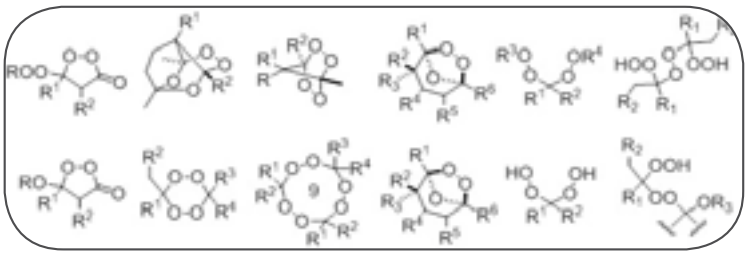
New organic peroxides with valuable properties

In the last decade, the progress of chemistry of organic peroxides was catalyzed by numerous reports of their antimalarial, anthelmintic, antitumor, growth regulation and antitubercular activity. The importance of these studies is illustrated by the 2015 Nobel Prize in Medicine awarded to Youyou Tu for the discovery and development of Artemisinin. In our work we developed methods for synthesis of various types of cyclic and linear peroxides usng of H_2O_2 and carbonyl compounds. Cyclic peroxides: ozonides, tetraoxanes, and tricyclic monoperoxides demonstrate prospective anticancer and antiparasitic properties.



Biography

Alexander Olegovich Terent'ev has completed his PhD and DSc degrees in 2000 and 2009 respectively. Currently, he is Professor at D Mendeleev University of Chemical Technology of Russia; Head of laboratory at N D Zelinsky Institute of Organic Chemistry RAS, and Head of laboratory in All-Russian Research Institute of Phytopathology. His research interests are organic chemistry, medical and agricultural chemistry, chemical technology. He published 120 research papers, and 30 patents.

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