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| Autore | Hepel Maria |
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| Altri autori (Persone) | StobieckaMagdalena |
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| Note generali | Description based upon print version of record. |
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| Nota di contenuto | Intro -- INTERACTIONS OF HERBICIDE ATRAZINE WITH DNA -- INTERACTIONS OF HERBICIDE ATRAZINE WITH DNA -- Contents -- Preface -- Chapter I Introduction -- Chapter II Materials and Methods -- 2.1. Chemicals -- 2.2. APPARATUS -- 2.3. PREPARATION OF BIOSENSORS -- QC/Au/Cit/PLL/ctDNA Sensor -- QC/Au/MPA/DNA20 bp -- QC/Au/AET/AuNP@MPA/dsDNA20 bp -- 2.4. PROCEDURES -- Cleaning of Gold Disk Electrodes -- Synthesis of Gold Nanoparticles -- DNA Damage Testing -- Voltammetric Measurements -- Ab-Initio Calculations -- Chapter III Results and Discussion -- 3.1. Design of Hybridization Biosensors for Investigations of DNA Damage by Toxicants -- 3.2. INTERACTIONS OF ATRAZINE WITH DNA IN SOLUTION -- 3.3. Vertical Short-Chain DNA Biosensors for Atrazine Intercalation Measurements -- 3.4. Interactions of Atrazine with DNA-Modified Gold Nanoparticles -- 3.5. Interactions of Atrazine with DNA-Modified Nanostructured Piezosensors -- 3.6. New Ferrocene-Modified DNA Biosensors for Comparative Analysis of DNA Damage Caused by Herbicides and Pesticides -- 3.7. Kinetics of DNA Damage and Unwinding -- 3.8. Theoretical Bases of Atrazine Interactions with DNA Double-Helix -- Chapter IV Conclusion -- |

