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<b>Disciplina</b>	363.7 54 541.2 541.38
<b>Soggetti</b>	Nuclear chemistry Materials science Radiation - Safety measures Radiation—Safety measures Nucleic acids Oxidative stress Chemistry, Physical and theoretical Nuclear Chemistry Characterization and Evaluation of Materials Effects of Radiation/Radiation Protection Nucleic Acid Chemistry Oxidative Stress Theoretical and Computational Chemistry
<b>Lingua di pubblicazione</b>	Inglese
<b>Formato</b>	Materiale a stampa
<b>Livello bibliografico</b>	Monografia
<b>Note generali</b>	Description based upon print version of record.
<b>Nota di bibliografia</b>	Includes bibliographical references at the end of each chapters and index.
<b>Nota di contenuto</b>	From the Contents: PART I Elementary radiation processes -- PART II Solid state radiation chemistry -- PART III Biochemistry, biophysics, and biology applications -- PART IV Material science -- PART V Radiation metrology -- PART VI Geological dating -- EPR dating -- PART VII Advanced EPR techniques -- PART VIII Theoretical tools.

## Sommario/riassunto

Applications of EPR in Radiation Research is a multi-author contributed volume presented in eight themes: I. Elementary radiation processes (fundamental reaction mechanisms, low temperature radiolysis, quantum solids); II: Solid state radiation chemistry (crystalline, amorphous and heterogeneous systems); III: Biochemistry, biophysics and biology applications (radicals in biomaterials, spin trapping, free-radical-induced DNA damage); IV: Materials science (polymeric and electronic materials, materials for treatment of nuclear waste); V: Radiation metrology (EPR-dosimetry, clinical applications); VI: Geological applications; VII: Advanced techniques (pulsed and optically detected EPR, spatial distributions of radicals, radical ion pairs); VIII: Theoretical tools (density-functional calculations, spectrum simulations). .

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