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Sommario/riassunto	This collection of thirty articles on research projects in all areas of peroxide chemistry, i. e. analytical, biochemical, inorganic, organic, organometallic, physical, spectroscopic, and theoretical facets, are the result of a multidisciplinary research program funded by the Deutsche Forschungsgemeinschaft (DFG). The emphasis was to lie on the development of environmentally acceptable, selective (chemo--, regio--, diastereo-- and enantioselectivity) oxidations. One chapter focuses on industrial applications which have to meet both economical and ecological demands to remain competitive in the future. Latest results on the consequences of lipid peroxidation in age--dependent diseases, which range from Alzheimer and Parkinson disorders to diabetes, rheumatic arthritis, atherosclerosis and cardiovascular diseases are also presented.