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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	A Fluorescent Lifetime: Reminiscing About Gregorio Weber -- Gregorio Weber's roots in Argentina -- The Labyrinthine World of Gregorio Weber -- Personal recollections of Gregorio Weber, my postdoc advisor, and the important consequences for my own academic career -- Measurements of Fluorescence Decay Time by the Frequency Domain Method -- Ultra-fast fluorescence anisotropy decay of N-acetyl-L-tryptophanamide reports on the apparent microscopic viscosity of aqueous solutions of guanidine hydrochloride -- Weber's Red Edge effect that changed the paradigm in photophysics and photochemistry -- Imaging Lifetimes -- The Impact of Laser Evolution on Modern Fluorescence Spectroscopy -- Effects of Sterol Mole Fraction on

Membrane Lateral Organization: Linking Fluorescence Signals to Sterol Superlattices -- The use of 6-acyl-2-(dimethylamino)naphthalenes as relaxation probes of biological environments -- Continuing Inspiration: Gregorio Weber's Influence on Understanding the Basis of Allosteric Regulation of Enzymes -- Using Fluorescence to Characterize the Role of Protein Oligomerization in the Regulation of Gene Expression -- Light Initiated Protein Relaxation -- Synthetic and Genetically-encoded Fluorescence Probes for Quantitative Analysis of Protein Hydrodynamics -- Spatiotemporal fluorescence correlation spectroscopy of inert tracers: a journey within cells, one molecule at a time -- Role of the Pico- Nano-Second Temporal Dimension in STED Microscopy -- Plasma membrane DC-SIGN clusters and their lateral transport: role in the cellular entry of dengue virus.

Sommario/riassunto

Gregorio Weber is widely acknowledged as the person responsible for the advent of modern fluorescence spectroscopy. Since 2016 is the 100th anniversary of Gregorio Weber's birth, this special volume has been prepared to honor his life and achievements. It offers contributions from outstanding researchers in the fluorescence field, describing their perspectives on modern fluorescence and its highly diverse applications, ranging from the photophysics of tryptophan and proteins, membrane studies, fluorescence microscopy on live cells, novel software approaches and instrumentation. Many of the authors knew Gregorio Weber personally and have shared their impressions of the man and his contributions. This volume appeals not only to aficionados of fluorescence spectroscopy and its applications in biology, chemistry and physics, but also to those with a general interest in the historical development of an important scientific field.
