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Nota di contenuto	Fluorescence Sensing of Inorganic Phosphate and Pyrophosphate Using Small Molecular Sensors and Their Applications -- Metal Fluorides: Tools for Structural and Computational Analysis of Phosphoryl Transfer Enzymes -- Importance of Radioactive Labelling to Elucidate Inositol Polyphosphate Signalling -- Applications and Advantages of Stable Isotope Phosphate Labeling of RNA in Mass Spectrometry -- New Synthetic Methods for Phosphate Labeling -- Phosphate-Modified Nucleotides for Monitoring Enzyme Activity -- Chemical Approaches for Studying Labile Amino Acid Phosphorylation -- Applications of Phosphate Modification and Labeling to Study (m)RNA Caps.
Sommario/riassunto	The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to

give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.
