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Sommario/riassunto	This book highlights some of the latest advances in nanoengineering, nanobiotechnology, and nanochemistry from leading researchers in Ukraine, Europe, and beyond. It features contributions presented at the 12th International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2024), held in hybrid format on August 21-24, 2024, at Uzhhorod National University. The conference was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), University of Turin (Italy), and Pierre and Marie Curie University (France). Internationally recognized experts from diverse universities and research institutions share their latest knowledge and findings on nanoengineering techniques, nanobiotechnological innovations, mechanical properties at the nanoscale, and their practical applications. This book will appeal to leading scientists, as well as advanced undergraduate and graduate students in nanoscience and engineering. This book's companion volume also addresses topics such as nanoengineering,

