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**This book describes the
fundamental concepts, the latest**

developments and the outlook of the field of nanozymes (i.e., the catalytic nanomaterials with enzymatic characteristics). As one of today's most exciting fields, nanozyme research lies at the interface of chemistry, biology, materials science and

nanotechnology. Each of the book's six chapters explores advances in nanozymes.

Following an introduction to the rise of nanozymes research in the course of research on natural enzymes and artificial enzymes in Chapter 1, Chapters 2 through 5

discuss different nanomaterials used to mimic various natural enzymes, from carbon-based and metal-based nanomaterials to metal oxide-based nanomaterials and other nanomaterials. In each of these chapters, the nanomaterials' enzyme mimetic

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activities, catalytic mechanisms and key applications are covered. In closing, Chapter 6 addresses the current challenges and outlines further directions for nanozymes. Presenting extensive information on nanozymes and supplemented with a wealth of

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color illustrations and tables, the book offers an ideal guide for readers from disparate areas, including analytical chemistry, materials science, nanoscience and nanotechnology, biomedical and clinical engineering, environmental science and

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experiment multiple times but still arrive at the same conclusions. Authored by teaching lab faculty, these activities focus on core physiological concepts and reinforce techniques experienced in the laboratory.

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the forensic science**

**community, performing
vitaly important work.
However, they are often
constrained by lack of
adequate resources,
sound policies, and
national support. It is**

**clear that change and
advancements, both
systematic and
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in a number of forensic
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ensure the reliability**

**of work, establish
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annotated, systematic
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**spelled-out and unified
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**some concepts and tools
are clarified and others
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also gives an introduction to enzyme kinetics - the idea of an enzyme-substrate complex; the Michaelis-Menten equation; the steady state treatment; and the validity of its assumption.

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Problems after the end of each chapter have also been added, as well as their solutions at the

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