Amino Acids, Peptides and Proteins in Organic Chemistry, Volume 2, Modified Amino Acids, Organocatalysis and Enzymes
Andrew B. Hughes (Series Editor)

DESCRIPTION

This is the second of five books in the Amino Acids, Peptides and Proteins in Organic Synthesis series.

Closing a gap in the literature, this is the only series to cover this important topic in organic and biochemistry. Drawing upon the combined expertise of the international “who’s who” in amino acid research, these volumes represent a real benchmark for amino acid chemistry, providing a comprehensive discussion of the occurrence, uses and applications of amino acids and, by extension, their polymeric forms, peptides and proteins.

The practical value of each volume is heightened by the inclusion of experimental procedures.

The 5 volumes cover the following topics:

Volume 1: Origins and Synthesis of Amino Acids
Volume 2: Modified Amino Acids, Organocatalysis and Enzymes
Volume 3: Building Blocks, Catalysis and Coupling Chemistry
Volume 4: Protection Reactions, Medicinal Chemistry, Combinatorial Synthesis
Volume 5: Analysis and Function of Amino Acids and Peptides

Clearly structured in three main sections, this second volume in the series begins with the synthesis and chemistry of modified amino acids. The second part deals with the catalysis of reactions by amino acids, while the final section is devoted to enzymes, including proteases as catalysts, semisynthetic enzymes, catalysis by peptide-based enzyme models, substrate and protein recognition, as well as mammalian and insect peptide hormones.

Originally planned as a six volume series, Amino Acids, Peptides and Proteins in Organic Chemistry now completes with five volumes but remains comprehensive in both scope and coverage.

Further information about the 5 Volume Set and purchasing details can be viewed here.

ABOUT THE AUTHOR

Andrew Hughes is a reader and Head of the Department of Chemistry at La Trobe University, Melbourne, Australia. He obtained his degrees from the University of Western Australia, before taking up post-doctoral appointments at the University of Cambridge starting 1989. After three years working with Professor Andrew Holmes, he joined Professor Steven Ley’s group. While at Cambridge he was appointed the Shell Research Fellow at Robinson College. His interests lie in the general field of asymmetric synthesis and methodology, with a recent focus on amino acid chemistry.

SERIES

Amino Acids™ Peptides and Proteins in Organic Chemistry (VCH)

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