



# Analytical Methods in Combinatorial Chemistry (Critical Reviews in Combinatorial Chemistry)

*Bing Yan*

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**Analytical Methods in Combinatorial Chemistry (Critical Reviews in Combinatorial Chemistry)** Bing Yan

This volume summarizes most analytical technologies that are applied to solving various problems in broad areas of combinatorial chemistry: chemistry optimization, library synthesis, lead selection, and lead optimization. It also suggests many avenues for further research, especially the need for major breakthroughs to resolve the incompatibility between parallel synthesis and the serial analysis and purification.

Filling the tremendous need for analytical methodologies in various phases of combinatorial chemistry, this book will be a necessary addition to the library of anyone using combinatorial chemistry. While there are several resources available on the subject, there are no other books that deal specifically with analytical issues in combinatorial chemistry. Not only an ideal companion to the comprehensive reference books used by chemists in combinatorial chemistry, it is a timely textbook for university and graduate students, introducing them to the updated applications of modern analytical technologies in the rapidly growing field of combinatorial chemistry.

From the Preface:

This book is organized according to the operation process of combinatorial chemistry starting with the description of the basic properties of solid supports and their effects on solid-phase organic reactions in Chapter 2. Chapters 3-5 describe analytical methods routinely applied to the tedious process of reaction optimization. These techniques are various FTIR and Raman methods, MS, NMR, UV-Vis, fluorescence, and other analytical methods. . . . Then the discussions move to the analytical control of the library quality in Chapter 6. The various methods for selecting active lead components from combinatorial libraries and the ways to reveal their structure or identity are discussed next in Chapter 7. . . . The applications of analytical methods in the optimization of the in vitro activity and physicochemical properties of lead compounds are then illustrated in Chapter 8. . . . Some promising new technologies and future perspectives are presented in Chapter 9.

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