

The first book in the world on the topic of

“Poly(vinylpyridine)”

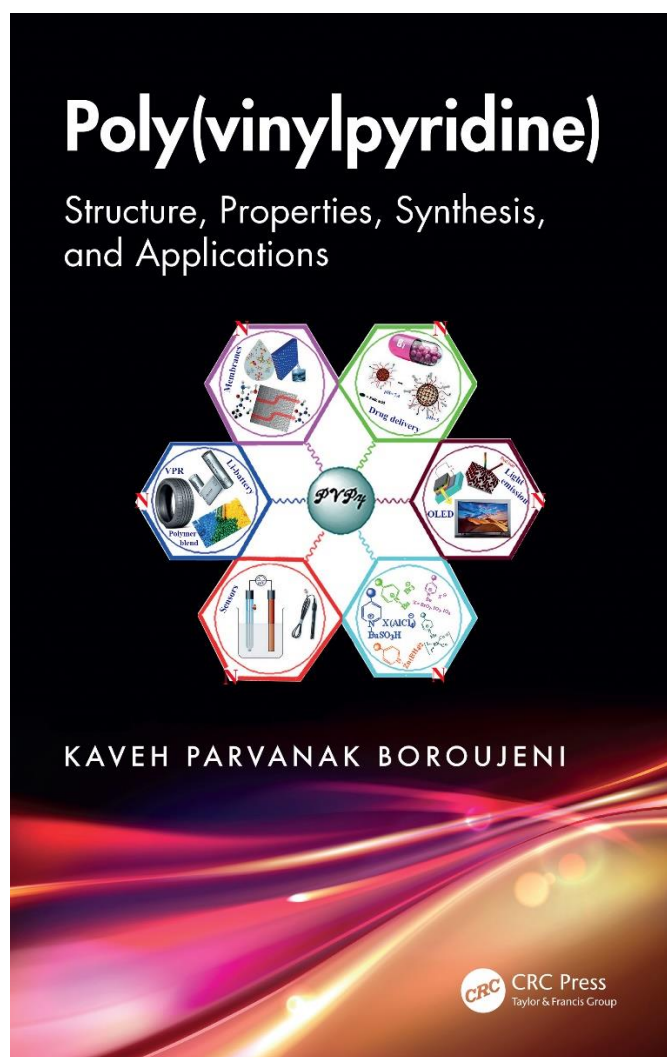
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Preface

Poly(vinylpyridine) (PVPy) has garnered increasing interest across diverse research disciplines, including academic investigations, materials science and technology, and medical sciences. Annually, numerous scientific sites report an ever-growing tally of studies on PVPy—evidence that its potential continues to expand in areas, from catalysis and separation membranes to drug-delivery vehicles and smart nanostructures. However, the extant literature on PVPy is primarily confined to journal articles, patents, and encyclopedia entries that lack comprehensive coverage. To the best of our knowledge, no book on PVPy currently exists, highlighting a clear gap in both library collections and research resources. The publication of this PVPy book would therefore be timely, attractive, and invaluable.

This book is organized into four chapters. In Chapter 1, I have consolidated all known properties, characteristics, and applications of PVPy through a systematic survey of approximately 1200 scientific articles. Each section begins with a brief historical overview and traces the development of the topic to the present, thereby granting readers rapid and easy access to concepts and obviating the need for difficult and time-consuming searches among the literature. Chapter 2 presents a brief overview of functional polymers—including their importance, classification, synthesis methods, and advantages over non-polymeric counterparts—and establishes the conceptual basis necessary to better understand the following chapters. Chapters 3 and 4 introduce PVPy as a support for catalysts and reagents, citing about 450 references. Mostly, polymer reactants or catalysts are detailed using schematic representations of reactions along with corresponding reaction conditions and synthetic routes. This allows readers to understand each transformation quickly, making the book stand out.

Given the above, I anticipate that this book—representing the first up-to-date comprehensive and critical volume on PVPy, covering more than 70 years of published scientific articles—will serve both as a widely cited reference for academic and industrial researchers and as an educational asset for students across all levels.

Kaveh Parvanak Boroujeni, 2025