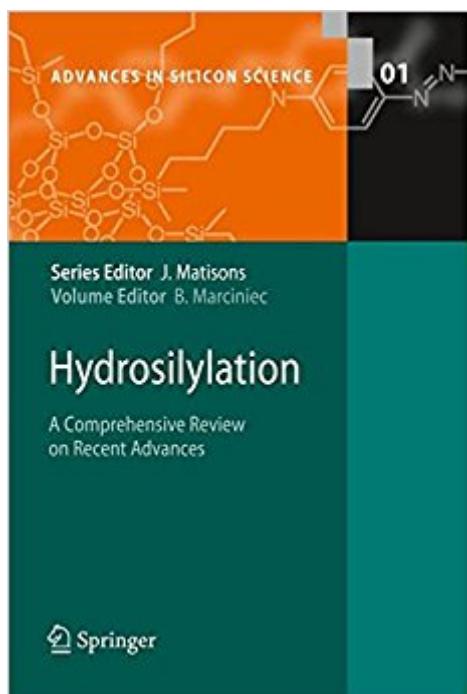


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Hydrosilylation: A Comprehensive Review On Recent Advances (Advances In Silicon Science)



Synopsis

For fifty years, Hydrosilylation has been one of the most fundamental and elegant methods for the laboratory and industrial synthesis of organosilicon and silicon related compounds. Despite the intensive research and continued interest generated by organosilicon compounds, no comprehensive book incorporating its various aspects has been published this century. The aim of this book is to comprehensively review the advances of hydrosilylation processes since 1990. The survey of the literature published over the last two decades enables the authors to discuss the most recent aspects of hydrosilylation advances (catalytic and synthetic) and to elucidate the reaction mechanism for the given catalyst used and the reaction utilization. New catalytic pathways under optimum conditions necessary for efficient synthesis of organosilicon compounds are presented. This monograph shows the extensive development in the application of hydrosilylation in organic and asymmetric syntheses and in polymer and material science.

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From the reviews: "This book is a remarkably useful contribution to the literature of organosilicon chemistry and silicon-based polymers. I do highly recommend this book to researchers concerned with this area. For research libraries, it represents a very timely and thorough compilation of the literature. For those of us working in organosilicon chemistry, this is a useful compendium of the recent developments in hydrosilylation reactions. I am happy to recommend

this book to individuals and institutions with research interests in silicon chemistry." (Stephen J. Clarson, Silicon, Vol. 1, 2009)

For fifty years, Hydrosilylation has been one of the most fundamental and elegant methods for the laboratory and industrial synthesis of organosilicon and silicon related compounds. Despite the intensive research and continued interest generated by organosilicon compounds, no comprehensive book incorporating the various aspects of Hydrosilylation has been published this century. The aim of Hydrosilylation is to comprehensively review the advances of hydrosilylation processes since 1990. The survey of the literature published over the last two decades, including ca 2000 articles, patents and reviews, enables the authors to discuss the most recent aspects of hydrosilylation advances, (i.e. catalytic and synthetic) as well as to elucidate the reaction mechanism for the given catalyst used and the reaction utilization. New catalytic pathways under optimum conditions necessary for efficient synthesis of organosilicon compounds are presented. The key point of this monograph is to show extensive development in the application of hydrosilylation in organic and asymmetric syntheses as well as in polymer and material science. Hydrosilylation is the definitive monograph in the area written for researchers and industrial chemists involved in silicon chemistry, organic synthetic chemists with an interest in silicones, silane coupling agents and hybrid inorganic-organic materials; as well as researchers working on organosilicon reagents in organic and polymer chemistry. Finally, this book provides an excellent review of hydrosilylation processes and their products thus making this book a useful handbook for post-graduate students working in catalysis, organometallic chemistry as well as synthesis and the technology of fine chemicals. Â

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