

Contents

Elucidating Organic Reaction Mechanisms Using Photo-CIDNP Spectroscopy	1
Martin Goetz	
<i>parahydrogen</i> Induced Polarization by Homogeneous Catalysis: Theory and Applications	33
Lisandro Buljubasich, María Belén Franzoni, and Kerstin Münnemann	
Improving NMR and MRI Sensitivity with <i>Parahydrogen</i>	75
Simon B. Duckett and Ryan E. Mewis	
The Solid-State Photo-CIDNP Effect and Its Analytical Application	105
Bela E. Bode, Smitha Surendran Thamarath, Karthick Babu Sai Sankar Gupta, A. Alia, Gunnar Jeschke, and Jörg Matysik	
Parahydrogen-Induced Polarization in Heterogeneous Catalytic Processes	123
Kirill V. Kovtunov, Vladimir V. Zhivonitko, Ivan V. Skovpin, Danila A. Barskiy, and Igor V. Koptug	
Dynamic Nuclear Polarization Enhanced NMR in the Solid-State	181
Ümit Akbey, W. Trent Franks, Arne Linden, Marcella Orwick-Rydmark, Sascha Lange, and Hartmut Oschkinat	
Photo-CIDNP NMR Spectroscopy of Amino Acids and Proteins	229
Lars T. Kuhn	
Index	301

Hyperpolarization Methods in NMR Spectroscopy

Kuhn, L.T. (Ed.)

2013, VII, 304 p. 138 illus., 16 illus. in color., Hardcover

ISBN: 978-3-642-39727-1