

# Contents

1	The reaction mechanisms of zinc enzymes <b> Gudrun Schürer, Timothy Clark and Rudi van Eldik</b>	1
2	Structural organozinc chemistry <b> Johann T. B. H. Jastrzebski, Jaap Boersma and Gerard van Koten</b>	31
3	Thermochemistry of organozinc compounds <b> Joel F. Liebman and Suzanne W. Slayden</b>	137
4	$^{67}\text{Zn}$ NMR, a tool for coordination chemistry problems <b> Athanasios G. Coutsolelos and Georgios A. Spyroulias</b>	147
5	Mass spectrometry of organozinc compounds <b> Sergiu P. Paliu and Dmitri V. Zagorevskii</b>	163
6	Dynamic behavior of organozinc compounds <b> Albert Guijarro</b>	193
7	Cyclopropanation mediated by zinc organometallics <b> André B. Charette</b>	237
8	Functionalized organozinc compounds <b> Paul Knochel, Helena Leuser, Liu-Zhu Gong, Sylvie Perrone and Florian F. Kneisel</b>	287
9	Photochemical transformations involving zinc porphyrins and phthalocyanines <b> Mathias O. Senge and Natalia N. Sergeeva</b>	395
10	Synthesis and reactions of allenylzinc reagents <b> James A. Marshall</b>	421
11	Palladium- or nickel-catalyzed cross-coupling reactions with organozincs and related organometals <b> Ei-ichi Negishi, Qian Hu, Zhihong Huang, Guangwei Wang and Ning Yin</b>	457
12	Enantioselective addition of organozinc compounds <b> Kenso Soai, Tsuneomi Kawasaki and Itaru Sato</b>	555

13	Rearrangements of organozinc compounds <b>Varinder K. Aggarwal and Knut Sommer</b>	595
14	1,1-Bismetallated species <b>Seijiro Matsubara</b>	641
15	The chemistry of organozincate compounds <b>Toshiro Harada</b>	685
16	Fluorinated organozinc reagents <b>Charles R. Davis and Donald J. Burton</b>	713
17	Electrochemical generation and reaction of zinc reagents <b>Jacques Périchon, Corinne Gosmini and Olivier Buriez</b>	755
18	The chemistry of zinc enolates <b>Marco Lombardo and Claudio Trombini</b>	797
19	Carbozincation of alkenes and alkynes <b>Edwige Lorthiois and Christophe Meyer</b>	863
	Author index	979
	Subject index	1053