

Contents

1 Organic Phosphorus-Selenium Chemistry	1
Guoxiong Hua and J. Derek Woollins	
2 New Selenium Electrophiles and Their Reactivity	41
Diana M. Freudendahl and Thomas Wirth	
3 Redox Chemistry of Sulfur, Selenium and Tellurium Compounds ...	57
Richard S. Glass	
4 Redox and Related Coordination Chemistry of PNP- and PCP-Bridged Selenium and Tellurium-Centred Ligands	79
Tristram Chivers and Jari Konu	
5 Synthesis, Structures, Bonding, and Reactions of Imido-Selenium and -Tellurium Compounds	103
Risto S. Laitinen, Raija Oilunkaniemi, and Tristram Chivers	
6 A New Class of Paramagnetics: 1,2,5-Chalcogenadiazolidyl Salts as Potential Building Blocks for Molecular Magnets and Conductors	123
Andrey V. Zibarev and Rüdiger Mews	
7 Organotelluroxanes	151
Jens Beckmann and Pamela Finke	
8 Recent Developments in the Lewis Acidic Chemistry of Selenium and Tellurium Halides and <i>Pseudo</i>-Halides	179
Jason L. Dutton and Paul J. Ragogna	

9	Selenium and Tellurium Containing Precursors for Semiconducting Materials	201
	Mohammad Azad Malik, Karthik Ramasamy, and Paul O'Brien	
10	Synthesis and Transformations of 2- and 3-hydroxy-Selenophenes and 2- and 3-Amino-Selenophenes	239
	G. Kirsch, E. Perspicace, and S. Hesse	
11	Activation of Peroxides by Organoselenium Catalysts: A Synthetic and Biological Perspective	251
	Eduardo E. Alberto and Antonio L. Braga	
12	Selenium and Human Health: Snapshots from the Frontiers of Selenium Biomedicine	285
	Leopold Flohé	
13	Metal Complexes Containing P-Se Ligands	303
	Chen-Wei Liu and J. Derek Woollins	
	Index	321