

# Contents

|                                                                                                         |     |
|---------------------------------------------------------------------------------------------------------|-----|
| <b>Beyond Pentacenes: Synthesis and Properties of Higher Acenes</b> .....                               | 1   |
| Christina Tönshoff and Holger F. Bettinger                                                              |     |
| <b>Twisted Arenes</b> .....                                                                             | 31  |
| Kung K. Wang                                                                                            |     |
| <b>Synthesis, Structures, and Physical Properties of Aromatic<br/>Molecular-Bowl Hydrocarbons</b> ..... | 63  |
| Yao-Ting Wu and Jay S. Siegel                                                                           |     |
| <b>Strategies in Organic Synthesis for Condensed Arenes, Coronene,<br/>and Graphene</b> .....           | 121 |
| Anne-Florence Tran-Van and Hermann A. Wegner                                                            |     |
| <b>Indenofluorenes and Derivatives: Syntheses and Emerging<br/>Materials Applications</b> .....         | 159 |
| Aaron G. Fix, Daniel T. Chase, and Michael M. Haley                                                     |     |
| <b>Closed-Shell and Open-Shell 2D Nanographenes</b> .....                                               | 197 |
| Zhe Sun and Jishan Wu                                                                                   |     |
| <b>Molecular Belts</b> .....                                                                            | 249 |
| Paul J. Evans and Ramesh Jasti                                                                          |     |
| <b>Index</b> .....                                                                                      | 291 |