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Titolo	Design and synthesis of conjugated polymers // edited by Mario Leclerc, Jean-Francois Morin
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Nota di contenuto	Design and Synthesis of Conjugated Polymers; Contents; Preface; List of Contributors; 1 Synthesis and Functionality of Substituted Polyacetylenes; 1.1 Introduction; 1.2 Polymer Syntheses; 1.2.1 Catalysts; 1.2.2 Polymerization Behaviors; 1.2.3 Polymer Reactions; 1.3 Functional Properties; 1.3.1 Electrical Conductivity and Photoconductivity; 1.3.2 Liquid Crystallinity; 1.3.3 Luminescence; 1.3.4 Fluorescence Sensing; 1.3.5 Patterning and Imaging; 1.3.6 Chromism; 1.3.7 Optical Activity; 1.3.8 Supramolecular Assembly; 1.3.9 Optical Nonlinearity; 1.3.10 Biological Compatibility 1.4 Conclusions and Prospects Acknowledgments; References; 2 Suzuki Polycondensation: A Powerful Tool for Polyarylene Synthesis; 2.1 Introduction; 2.2 General Remarks; 2.3 How to Do an SPC and Aspects of Characterization; 2.3.1 Monomer Purity, Stoichiometry, and Solvents; 2.3.2 Brief Note on Optimization; 2.3.3 Reduced Catalyst Amount and Product Purification; 2.3.4 Molar Mass Determination; 2.4

Methodological Developments; 2.4.1 Boronic Acid/Boronate Monomers; 2.4.2 Boron-Based Ate Complexes; 2.4.3 Halo and Related Monomers; 2.4.4 Catalysts; 2.4.5 Chain Growth SPC 2.4.6 Microwave and Technical Scale Microreactor Applications 2.5 Selected Classes of Polyarylenes and Related Polymers; 2.5.1 Poly(para-phenylene)s; 2.5.2 Polyfluorenes; 2.5.3 Poly(para-meta-phenylene)s; 2.5.4 Shielded Polyarylenes; 2.5.5 Miscellaneous; 2.6 Conclusions and Outlook; Acknowledgments; References; 3 Advanced Functional Regioregular Polythiophenes; 3.1 Introduction; 3.2 Unsubstituted Polythiophene; 3.3 Poly(3-alkylthiophene)s; 3.4 Head-to-Tail Regioregular Poly(3-alkylthiophene)s (rrP3ATs); 3.4.1 Design and Synthesis of rrP3ATs; 3.4.1.1 McCullough Method; 3.4.1.2 Rieke Method 3.4.1.3 GRIM Method 3.4.1.4 Other Methods; 3.4.2 Mechanism of the Nickel-Catalyzed Polymerization; 3.4.3 End Group Functionalization; 3.4.3.1 Postpolymerization End Group Functionalization; 3.4.3.2 In situ End Group Functionalization; 3.4.4 Fundamental Properties of rrP3ATs; 3.4.4.1 UV-vis Absorption; 3.4.4.2 Microstructure and Morphology in Thin Films; 3.4.4.3 Electrical Conductivity; 3.4.5 rrP3ATs in Electronic Devices; 3.4.5.1 rrP3ATs in PLEDs; 3.4.5.2 rrP3ATs in OFETs; 3.4.5.3 rrP3ATs in OPVs; 3.5 Regiosymmetric Poly(alkylthiophene)s 3.5.1 Head-to-Head-, Tail-to-Tail-Coupled Poly(alkylthiophene)s 3.5.2 Regiosymmetric Alkylthiophene-Thiophene Copolymers; 3.6 Regiosymmetric Polythiophenes with (Hetero)aromatic Rings; 3.7 Polythiophene Block Copolymers; 3.7.1 All-Conjugated rrP3AT-Based Block Copolymers; 3.7.2 Conjugated-Nonconjugated rrP3AT-Based Block Copolymers; 3.8 Conclusion; References; 4 Poly (phenylenevinylene)s; 4.1 Introduction; 4.2 Poly(p-phenylenevinylene)s via Polymerization Methods; 4.2.1 Gilch Approach; 4.2.2 The Wessling Method; 4.3 Poly(p-phenylenevinylene)s via Polycondensation 4.3.1 Wittig and Horner-Wadsworth-Emmons Reaction

Sommario/riassunto

This first systematic compilation of synthesis methods for different classes of polymers describes well-tested and reproducible procedures, thus saving time, money and chemicals. Each chapter presents the latest method for a specific class of conjugated polymers with a particular emphasis on the design aspects for organo-electronic applications. In this concise and practically oriented manner, readers are introduced to the strategies of influencing and controlling the polymer properties with respect to their use in the desired device. This style of presentation quickly helps researchers

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Nota di contenuto	Cover; Reinventing the Workplace Second Edition; Copyright; Contents; Foreword; Acknowledgements; Sponsors; Contributors; Introduction: the Changing Workplace; Section I Charting a Future; 1 the Logistical City; 2 New Patterns of Work: the Design of the Office; 3 Real Estate and the Future; 4 the Future Workplace, Opportunities, Realities and Myths: a Practical Approach to Creating Meaningful Environments; Section II Real Estate Dilemmas; 5 Office Cultures: International Differences in Workplace Design; 6 New Real Estate Models to Support Distributed Working 7 Competing for the Future of Corporate Real EstateSection III the Opportunities of Information Technology; 8 from the Intelligent Building to the Distributed Workplace; 9 Technology for a New Office; Section Iv Management Responses; 10 Delivering the Operational Workplace; 11 Supporting Organisational Change; 12 Making Change Work; Section V Working Solutions; 13 Emerging Building Forms and

Accommodation Solutions: New Building Typologies or Distinctive Place-making; 14 Asia Pacific: a Melting Pot of Global Experience; 15 North American Office Design at the Start of the New Millennium 16 the Dynamic Workplace: Scottish Enterprise Headquarters, Glasgow
Figure Acknowledgements; References; Index

Sommario/riassunto

Incorporating a diversity of practices, cultural and organization change, and new building forms, this book provides ideas, inspiration and analysis of the multitude of ways in which an office space can be designed and utilized. Updated to cope with technological advances, as well as including a new series of case studies on recent Australian, North American and Scandinavian experiences, the contributors draw on a wealth and variety of professional experience to present the best and most innovative solutions for today's office - and tomorrow's workplace.
