Green Synthetic Approaches for Biologically Relevant Heterocycles

Description: Green Synthetic Approaches for Biologically Relevant Heterocycles reviews this significant group of organic compounds within the context of sustainable methods and processes. Each clearly structured chapter features in-depth coverage of various green protocols for the synthesis of a wide variety of bioactive heterocycles classified on the basis of ring-size and/or presence of heteratoms(s). Techniques covered include microwave heating, ultrasound, ionic liquids, solid phase, solvent-free, heterogeneous catalysis, and aqueous media, along with multi-component reaction strategies. This book also integrates advances in green chemistry research into industrial applications and process developments. Green Synthetic Approaches for Biologically Relevant Heterocycles is an essential resource on green chemistry technologies for academic researchers, R&D professionals, and students working in medicinal, organic, natural product, and agricultural chemistry.

- Includes global coverage of a wide variety of green synthetic techniques
- Features cutting-edge research in the field of bioactive heterocyclic compounds
- Focuses extensively on applications, with numerous examples of biologically relevant heterocycles

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1. Green synthetic approaches for biologically relevant heterocycles: An overview
2. Synthesis of bioactive five- and six-membered heterocycles catalyzed by heterogeneous supported metals
3. Transition-metal-free synthesis of benzo-fused five- and six-membered heterocycles employing arynes
4. Metal-catalyzed routes for the synthesis of furocoumarins and coumestans
5. Green solvents for eco-friendly synthesis of bioactive heterocyclic compounds
6. Green catalytic synthesis of heterocyclic structures using carbon dioxide and related motifs
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8. Green synthetic approaches for biologically relevant 2-amino-4H-pyran-annulated heterocycles in aqueous media
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20. Application of microwave irradiation in the synthesis of P-heterocycles
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