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Biomass Crops, Agronomic Performance & Emerging Renewable Energy Technologies

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Message from the Guest Editors

Renewable energy technologies encompass technologies for transforming renewable energy resources into energy. Plant biomass is a renewable energy source derived from the cultivation of dedicated bioenergy crops. The agronomic aspects of these crops are under extensive evaluation and optimization, while their cultivation in marginal lands is of great interest. The effects of various agronomic practices (e.g., genotype selection, seedbed manipulation, crop rotation, irrigation, fertilization, and weed and pest management) on the growth and yield performance of both herbaceous and woody biomass crops should be evaluated extensively. Research needs to address the challenges of the high cost of processing and the increased oil synthesis in the relevant oilseed crops. For lignocellulosic crops, intensive research is needed to optimize biomass pretreatment methods to achieve the rapid degradation of cellulosic polysaccharides and lignin to fermentable sugars. There is also interest in exploring gasification technologies for biomass processing and applications.



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Special Issue



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Message from the Editor-in-Chief

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