



agriculture

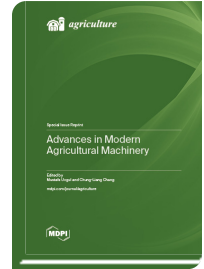


Special Issue Reprint

Advances in Modern Agricultural Machinery

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Agricultural production is essential to deal with the issue of food supply, which is one of the main problems in modern societies. According to the FAO (Food and Agriculture Organization of the United Nations), the food demand in the world may increase by 70% by 2050. Broadacre farming enables large-scale crop production and is vital to producing abundant food. Machinery systems used in broadacre farming also significantly affect crop production. Therefore, designing and improving more effective machinery systems and components used in broadacre farming have become critical in meeting this demand. Increasing the cost of energy, fertilizer, chemical, and labour has also pushed farmers and the agricultural industry to design and develop more efficient systems to reduce the cost of production (to increase profit) and hence to make agricultural products affordable for consumers. Additionally, protecting the environment and enhancing the health of the soil using novel agricultural techniques to make agricultural production sustainable is also desired. This Special Issue collated innovative papers that significantly contribute to the design and application of modern agricultural machinery systems in agriculture. It included original research and review papers from different research fields, including but not limited to tillage, seeding, fertilizer, harvest, tractors, and control and automation systems used in agricultural production.



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