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| Altri autori (Persone)  | SinghRaghavendra<br>RathoreSanjay Singh<br>DasAnup<br>SinghVinod Kumar  |
| Disciplina              | 631.4   |
| Soggetti                | Soil science<br>Agronomy<br>Subsistence farming<br>Agricultural genome mapping<br>Soil Science<br>Subsistence Agriculture<br>Agricultural Genetics  |
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| Nota di contenuto       | 1. Crop diversification in India: Implications to food security and soil health -- 2. Approaches for capturing soil carbon for sustained food and nutritional security -- 3. Biochar as new emerging tool to achieve food security and environmental sustainability under current climate change scenario -- 4. Integrated Farming Systems: A Holistic Approach to Sustainable Agriculture -- 5. Genetic gain enhancement in maize breeding for sustained food and nutritional security -- 6. Diversification of sugarcane-based cropping system with medicinal and aromatic plants -- 7. Diversification of rainfed maize-based systems in the Indian Himalayas -- 8. Enhancing nutrient use efficiency in pulses under diversified farming through agronomic manipulations -- 9. Crop |

Diversification with Legume for Sustainable Production and Environmental Gain -- 10. Agroforestry for sustainable livelihood and nutritional security -- 11. Food-water-energy nexus in designing sustainable food production systems -- 12. Harnessing below and above-ground interaction in diversified cropping for sustainable food production -- 13. Crop Diversification Opportunities in Rainfed Farming: Approaches and Strategies -- 14. Carbon Farming -- 15. Agroecological Approaches for Sustainable Intensification -- 16. Solar Energy for Farm Diversification: Implications in Sustainable Food Production -- 17. Integrated crop management practices for crop productivity and environmental sustainability -- 18. Climate smart tools and approaches in agriculture for sustainable food production.

#### Sommario/riassunto

This book discusses agricultural diversification, nutritional security and environmental sustainability. It helps to address the multipronged challenges of nutritional security while preserving the dwindling natural resources in the current fluctuating climate conditions. Energy-intensive, conventional agricultural production systems accelerate environmental footprints, resource mining, biodiversity losses, and human health problems and reduce soil functionality. Diversified farming can potentially enhance yield, food security, and climate change buffering as it helps to achieve advanced food security by efficient resource use and profit maximization. This book covers the challenges faced during the adoption of diversified farming and opportunities to enhanced food production and minimize the environmental footprints. This book is useful for academicians, researchers, ecologists, environmentalists, students, capacity builders, and policymakers to have in-depth knowledge of this complex and diverse field. This book also helps in devising a road map for policy planning and advancement of existing knowledge for various stakeholders working in this field.