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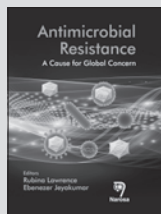
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Editors: Rubina Lawrence,
Ebenezer Jeyakumar,
George Thomas **NEW**

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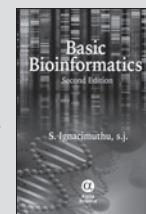
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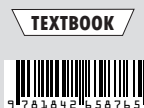
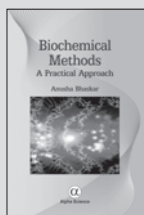
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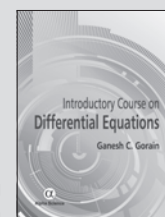
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Bioenergy Technology and Engineering discusses current status and the evaluation of bioenergy techniques and bioenergy resources; research, production and application of highly efficient anaerobe reactors and combustion equipments for biogas; manufacturing techniques and research on biogas, bioethanol and biodiesel; biomass briquettes and pellets production techniques, producing equipments, research and evaluation on the engineered implementation method of such fuel. This book, with its outstanding innovation focuses on the research ideas, techniques route, research methods, experiment process and application effects of bioenergy.

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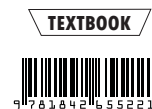


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Biology of Useful Plants and Microbes

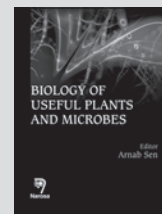
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Biology of Useful Plants and Microbes encompasses the coordinated interaction between plants and microbes. The twenty eight chapters included in this book are broadly classified into two parts. The first part deals with classical biology of economically important plants and microbes including both the research and review articles covering broad areas of biological research including physiology and biochemistry of medicinal plants, taxonomy of economically important plants and microbes, molecular biology, biochemical characterization of plant and microbial products, pharmacognosy, plant tissue culture, ethno botany, phytoremediation, plant growth promoting rhizobacteria, fungi etc., while the second part is more about the modern tools and techniques of Bioinformatics and their application in studying various plants and microbes and plant-microbe interactions and includes the study of biological information using concepts and methods of computational biology and computer sciences. Research on structural biology, codon usage, cloud computing, data mining, gene expression analysis etc. are presented in this section.

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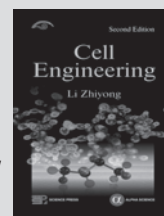


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NEW

Li Zhiyong



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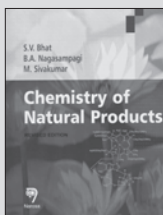
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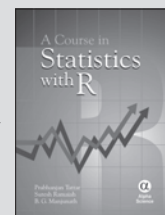
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Environmental Chemistry

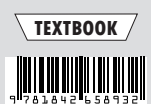
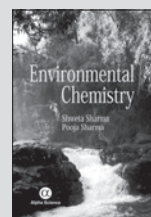
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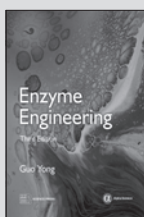
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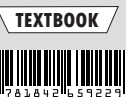
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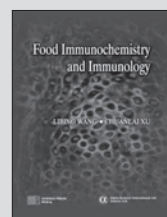
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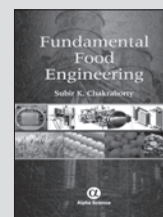
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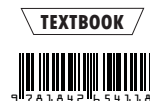


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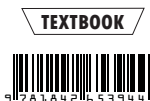
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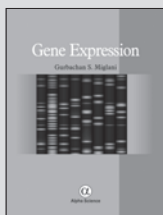
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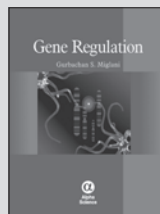
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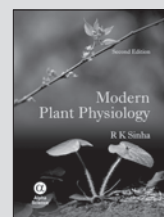


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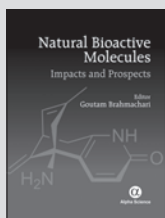
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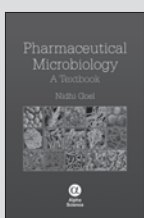
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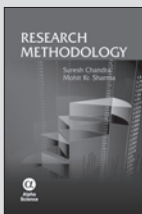
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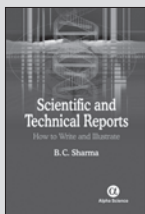
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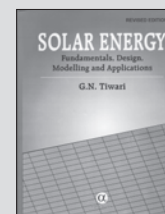
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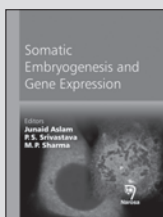
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Somatic Embryogenesis and Gene Expression provides an insight into current advances in the development of somatic embryogenesis, as well as the cellular and molecular mechanism, differential gene expression, and extracellular protein markers during different developing stages of somatic embryogenesis. It cover somatic embryogenesis in dicotyledons and monocotyledons plants, different factors regulating somatic embryogenesis (plant genotype, level of sugar in the medium, type and concentration of growth regulators, photoperiod, gelling agents, time exposure, induction and maturation medium), application of complex organic additives (often involves fruit juices, pulp, extracts and homogenates as well as liquid endosperms, protein hydrolysates like casein hydrolysate, tryptone, and yeast lysate like yeast extract), genetic fidelity of somatic embryos derived plantlets and role of connecting stress leading in expression of transcription factor that appears to connect stress and developmental signalling pathways and is essential for the subsequent signal transduction cascade that leads to the formation of somatic embryos. Expression of different genes associated with the accumulation of storage reserve during somatic embryogenesis along with isolation and molecular characterization of miRNAs at different developmental stages of embryogenesis, and finally proteomics during somatic embryogenesis has been discussed in detail.

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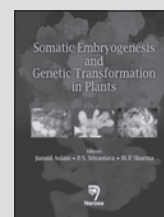
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Editors: Junaid Aslam,
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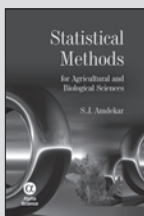
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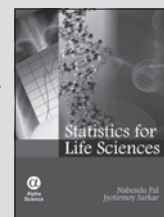
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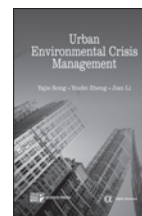
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Urban Environmental Crisis Management

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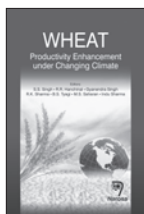
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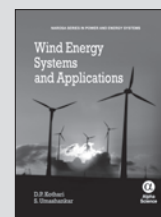
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