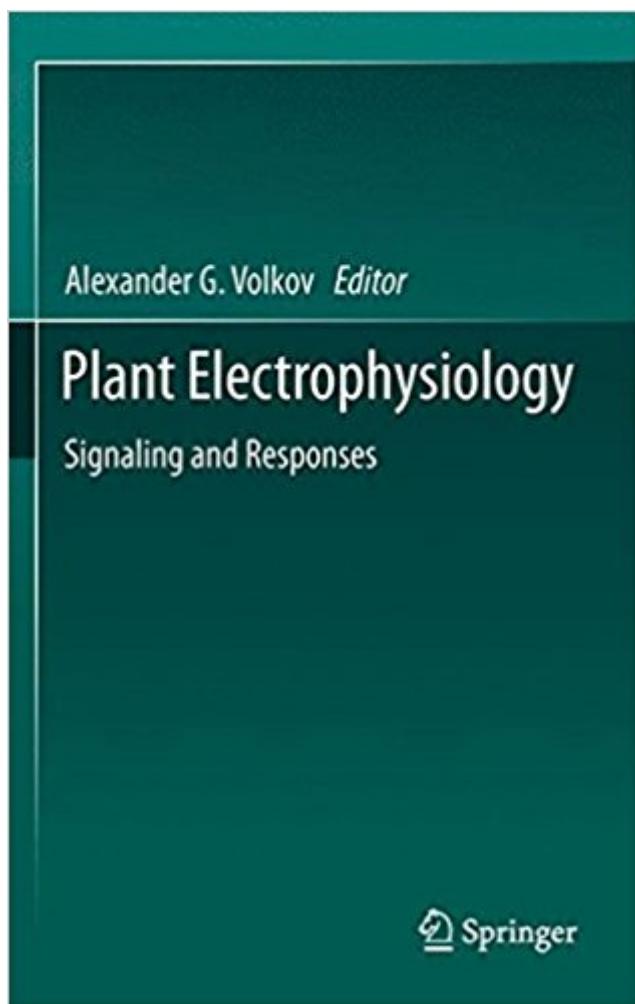


The book was found

Plant Electrophysiology: Signaling And Responses



Synopsis

This book, written by the leading experts in the field of plant electrophysiology, provides a comprehensive and up-to-date overview of the current state of knowledge on electrical signaling and responses in plant physiology. It covers a significant interdisciplinary area for a broad range of researchers, emphasizing the physical, chemical, biological, and technological aspects of plant electrophysiology, while also demonstrating the role of electrochemical processes and ion channels in plant life cycles. Separate chapters describe the electrophysiology of the Venus flytrap, the Telegraph plant, *Mimosa pudica*, and other interesting plant species. Subsequent sections focus on mechanisms of plant movement, the role of ion channels, morphing structures, and the effects of electrical signal transduction on photosynthesis and respiration. Further topics include the electrophysiology of plant-insect interactions, how plants sense different environmental stresses and stimuli, and how phytoactuators respond to them. All chapters analyze the generation and transmission of electrical signals in plants.

Book Information

Hardcover: 378 pages

Publisher: Springer; 2012 edition (May 3, 2012)

Language: English

ISBN-10: 3642291090

ISBN-13: 978-3642291098

Product Dimensions: 1 x 6.2 x 9.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #2,063,857 in Books (See Top 100 in Books) #78 in Books > Science & Math > Chemistry > Electrochemistry #804 in Books > Medical Books > Basic Sciences > Cell Biology #1286 in Books > Textbooks > Science & Mathematics > Biology & Life Sciences > Botany

Customer Reviews

From the reviews: "Rainer Stahlberg gives a short and concise historical introduction to plant electrophysiology. | Taken together, valuable technical information about selected electrophysiological techniques and underlying theories is provided for interested students and specialized scientists. | it can be recommended to students and researchers looking for a guide to techniques around noninvasive ion flux measurements, other selected techniques, and insights into the diversity of electrophysiological events in plants." (Petra Dietrich, *Journal of Plant Physiology*,

This book, written by the leading experts in the field of plant electrophysiology, provides a comprehensive and up-to-date overview of the current state of knowledge on electrical signaling and responses in plant physiology. It covers a significant interdisciplinary area for a broad range of researchers, emphasizing the physical, chemical, biological, and technological aspects of plant electrophysiology, while also demonstrating the role of electrochemical processes and ion channels in plant life cycles. Separate chapters describe the electrophysiology of the Venus flytrap, the Telegraph plant, Mimosa pudica, and other interesting plant species. Subsequent sections focus on mechanisms of plant movement, the role of ion channels, morphing structures, and the effects of electrical signal transduction on photosynthesis and respiration. Further topics include the electrophysiology of plant-insect interactions, how plants sense different environmental stresses and stimuli, and how phytoactuators respond to them. All chapters analyze the generation and transmission of electrical signals in plants.

It is a fine collection of papers on a subject that has been neglected by the scientific community.

[Download to continue reading...](#)

Plant Electrophysiology: Signaling and Responses
Cardiac Electrophysiology: A Visual Guide for Nurses, Techs, and Fellows
Clinical Electrophysiology: Electrotherapy and Electrophysiologic Testing (Point (Lippincott Williams & Wilkins))
Electrophysiology and Pharmacology of the Heart: A Clinical Guide
American Horticultural Society Plant Propagation: The Fully Illustrated Plant-by-Plant Manual of Practical Techniques
Handbook of Digital Techniques for High-Speed Design: Design Examples, Signaling and Memory Technologies, Fiber Optics, Modeling, and Simulation to Ensure Signal Integrity
Mitochondrial Signaling in Health and Disease (Oxidative Stress and Disease) 2013
NFPA 72: National Fire Alarm and Signaling Code
Cell Signaling: principles and mechanisms
EGFR Signaling Networks in Cancer Therapy (Cancer Drug Discovery and Development)
Railroad Signaling DIY Advanced Model Railroad Signaling
Electronics: Sensors, Interactivity, Track Control
Cell Signaling
Chemical and Process Plant Commissioning Handbook: A Practical Guide to Plant System and Equipment Installation and Commissioning
Child Exploitation and Trafficking: Examining Global Enforcement and Supply Chain Challenges and U.S. Responses
The Creation of Health: The Emotional, Psychological, and Spiritual Responses That Promote Health and Healing
The Creation of Health: The Emotional, Psychological, and Spiritual Responses That Promote Health and Healing: Three Rivers Press Edition
Construction Claims and Responses: Effective

Writing and Presentation Incredible 5 Point Scale: The Significantly Improved and Expanded Second Edition; Assisting Students in Understanding Social Interactions and Controlling their Emotional Responses Judaism and Animal Rights: Classical and Contemporary Responses

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)