



2012, XXVI, 474 p.

Printed book

Hardcover

219,99 € | £199.99 | \$279.99

^[1]235,39 € (D) | 241,99 € (A) | CHF 259,50

Softcover

205,59 € | £149.99 | \$229.99

^[1]219,98 € (D) | 226,15 € (A) | CHF 242,50

eBook

171,19 € | £119.50 | \$179.00

^[2]171,19 € (D) | 171,19 € (A) | CHF 194,00

Available from your library or
springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

R. Matyssek, H. Schnyder, W. Oßwald, D. Ernst, J.C. Munch, H. Pretzsch (Eds.)

Growth and Defence in Plants

Resource Allocation at Multiple Scales

Series: Ecological Studies

- **Written by experts**
- **Richly illustrated**
- **An invaluable source of information for plant scientists, ecologists, ecophysiologicals, plant pathologists, molecular biologists, agronomists, forest scientists, plant breeders, modelers, and advanced students**

Plants use resources, i.e. carbon, nutrients, water and energy, either for growth or to defend themselves from biotic and abiotic stresses. This volume provides a timely understanding of resource allocation and its regulation in plants, linking the molecular with biochemical and physiological-level processes. Ecological scenarios covered include competitors, pathogens, herbivores, mycorrhizae, soil microorganisms, carbon dioxide/ozone regimes, nitrogen and light availabilities. The validity of the "Growth-Differentiation Balance Hypothesis" is examined and novel theoretical concepts and approaches to modelling plant resource allocation are discussed. The results presented can be applied in plant breeding and engineering, as well as in resource-efficient stand management in agriculture and forestry.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

