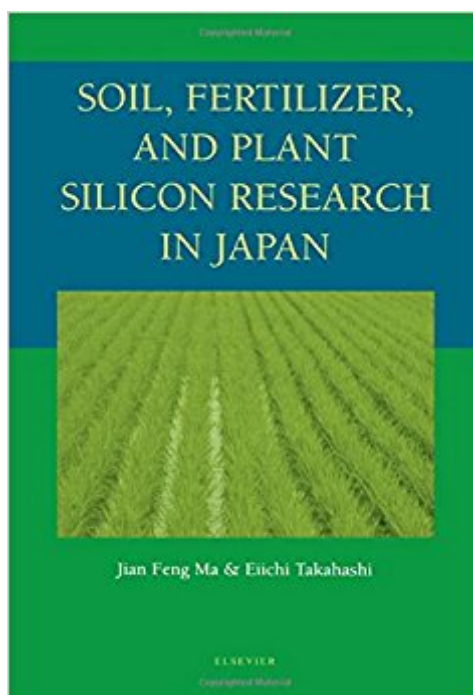


The book was found

# Soil, Fertilizer, And Plant Silicon Research In Japan



## Synopsis

Silicon (Si) plays a significant role in the resistance of plants to multiple stresses including biotic and abiotic stresses. Silicon is also the only element that does not damage plants when accumulated in excess. However, the contribution of Si to plant growth has been largely ignored due to its universal existence in the earth's crust. From numerous intensive studies on Si, initiated in Japan about 80 years ago, Japanese scientists realized that Si was important for the healthy growth of rice and for stability of rice production. In a worldwide first, silicon was recognized as a valuable fertilizer in Japan. The beneficial effects of Si on rice growth in particular, are largely attributable to the characteristics of a silica gel that is accumulated on the epidermal tissues in rice. These effects are expressed most clearly under high-density cultivation systems with heavy applications of nitrogen. Si is therefore recognized now as an "agronomically essential element" in Japan. Recently, Si has become globally important because it generates resistance in many plants to diseases and pests, and may contribute to reduced rates of application of pesticides and fungicides. Silicon is also now considered as an environment-friendly element. The achievements of Si research in Japan are introduced in this book, in relation to soils, fertilizers and plant nutrition.

## Book Information

Hardcover: 294 pages

Publisher: Elsevier Science; 1 edition (August 23, 2002)

Language: English

ISBN-10: 0444511660

ISBN-13: 978-0444511669

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,932,161 in Books (See Top 100 in Books) #85 in [Books > Crafts, Hobbies & Home > Gardening & Landscape Design > Soil](#) #579 in [Books > Science & Math > Agricultural Sciences > Soil Science](#) #2296 in [Books > Science & Math > Biological Sciences > Plants > Flowers](#)

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

Soil, Fertilizer, and Plant Silicon Research in Japan Japan: The Ultimate Japan Travel Guide By A Traveler For A Traveler: The Best Travel Tips; Where To Go, What To See And Much More (Japan Travel Guide, ... Guide, Japan Tour, History, Kyoto Guide,) Japan Travel Guide: The Ultimate Japan

Travel Guide for Curious, Fun and Adventurous Travelers - Experience the Best of Japan's Culture, History, Tours, ... Japan Travel, Tokyo Guide, Kyoto Guide) Japan: The Ultimate Japan Travel Guide By A Traveler For A Traveler: The Best Travel Tips; Where To Go, What To See And Much More (Lost Travelers, ... Guide, Japan Tour, Best Of JAPAN Travel) Japan Travel Guide: The Ultimate Japan Travel Guide for Curious, Fun and Adventurous Travelers - Experience the Best of Japan's Culture, History, ... Japan Travel, Tokyo Guide, Kyoto Guide) Japan: The Ultimate Japan Travel Guide By A Traveler For A Traveler: The Best Travel Tips; Where To Go, What To See And Much More (Lost Travelers ... Kyoto Guide, Japan Tour, Budget Japan Travel) Japan: Japan Travel Guide: 101 Coolest Things to Do in Japan (Tokyo Travel, Kyoto Travel, Osaka Travel, Hiroshima, Budget Travel Japan) Japan: 101 Awesome Things You Must Do In Japan: Japan Travel Guide To The Land Of The Rising Sun. The True Travel Guide from a True Traveler. All You Need To Know About Japan. Japan: Japan Travel Guide: The 30 Best Tips For Your Trip To Japan - The Places You Have To See (Tokyo, Kyoto, Osaka, Japan Travel Book 1) Japan: Japan Travel Guide: The 30 Best Tips For Your Trip To Japan - The Places You Have To See (Tokyo, Kyoto, Osaka, Japan Travel) (Volume 1) Methods of Soil Analysis. Part 2. Microbiological and Biochemical Properties (Soil Science Society of America Book, No 5) (Soil Science Society of America Book Series) Tokyo Travel Guide - Best of Tokyo - Your #1 Itinerary Planner for What to See, Do, and Eat in Tokyo, Japan (Tokyo Travel Guide, Tokyo Travel, Tokyo Japan) (Wanderlust Pocket Guides - Japan) Hydroponics for Beginners. How to Grow Hydroponics at Home: How to Choose a Fertilizer for Hydroponics, Hormones, Growth Factors, and Drugs Turf and Garden: Fertilizer Handbook American Horticultural Society Plant Propagation: The Fully Illustrated Plant-by-Plant Manual of Practical Techniques Balancing Soil Nutrients and Acidity: The Real Dirt on Cultivating Crops, Compost, and a Healthier Home (The Ultimate Guide to Soil Book 3) The Soil Will Save Us: How Scientists, Farmers, and Ranchers Are Tending the Soil to Reverse Global Warming The Soul of Soil: A Soil-Building Guide for Master Gardeners and Farmers, 4th Edition Start With the Soil: The Organic Gardener's Guide to Improving Soil for Higher Yields, More Beautiful Flowers, and a Healthy, Easy-Care Garden Taylor's Weekend Gardening Guide to Soil and Composting: The Complete Guide to Building Healthy, Fertile Soil (Taylor's Weekend Gardening Guides (Houghton Mifflin))

[Contact Us](#)

[DMCA](#)

[Privacy](#)

