

JOURNAL OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE

VOL. 142, NO. 1

CONTENTS

JANUARY 2017

- 3 Light Intensity and Light Quality from Sole-source Light-emitting Diodes Impact Phytochemical Concentrations within *Brassica* Microgreens
Joshua K. Craver, Joshua R. Gerovac, Roberto G. Lopez, and Dean A. Kopsell
- 13 The Impact of Pollen Donor on Flavor in Cocoa
Darin A. Sukha, Pathmanathan Umaharan, and David R. Butler
- 20 Differential Effects of Glycine Betaine and Spermidine on Osmotic Adjustment and Antioxidant Defense Contributing to Improved Drought Tolerance in Creeping Bentgrass
Nanqing Liu, Shaoyan Lin, and Bingru Huang
- 27 Soil-application of Zinc-EDTA Increases Leaf Photosynthesis of Immature 'Wichita' Pecan Trees
Richard J. Heerema, Dawn VanLeeuwen, Marisa Y. Thompson, Joshua D. Sherman, Mary J. Comeau, and James L. Walworth
- 36 Early Measures of Drought Tolerance in Four Grape Rootstocks
Kevin Fort, Joaquin Fraga, Daniele Grossi, and M. Andrew Walker
- 47 Genetic Diversity in the Desert Watermelon *Citrullus colocynthis* and its Relationship with *Citrullus* Species as Determined by High-frequency Oligonucleotides-targeting Active Gene Markers
Amnon Levi, Alvin M. Simmons, Laura Massey, John Coffey, W. Patrick Wechter, Robert L. Jarret, Yaakov Tadmor, Padma Nimmakayala, and Umesh K. Reddy
- 57 Evaluation of Different Drought Stress Regimens on Growth, Leaf Gas Exchange Properties, and Carboxylation Activity in Purple Passionflower Plants
Alexandra García-Castro, Astrid Volder, Hermann Restrepo-Diaz, Terri W. Starman, and Leonardo Lombardini