

## Superior Paper Awards 2024 presented 2025

The articles published by ASABE in its three peer-reviewed journals during 2024 are eligible for 2025 Superior Paper Awards. Each Technical Community selects up to 5% of the papers published by their community for Paper Awards based on the articles' timeliness, fundamental value, originality, and benefits to society, as well as for the quality of writing. Winning Paper Award authors are presented with a certificate at the Annual International Meeting.

### [An Automated On-the-Go Unloading System Reduces Harvest Operator Stress Relative to Manual Operation](#)

Travis A. Burgers, Kusha Kamarej, Mukund Vora, Matthew Horne

*Journal of Agricultural Safety and Health* 30(3) (doi: 10.13031/jash.15992)

### [Organ-Level Instance Segmentation of Oilseed Rape at Seedling Stage Based on 3D Point Cloud](#)

Jie Li, Li Qingqing, Jiangwei Qiao, Li Li, Jian Yao, Jingmin Tu

*Applied Engineering in Agriculture* 40(2) (doi: 10.13031/aea.15698)

### [Powering In-Field Continuous Robotic Systems Using Solar Energy Systems](#)

Joe Dvorak, Bo Smith

*Journal of the ASABE* 67(3) (doi: 10.13031/ja.15579)

### [Design, Prototyping, and Evaluation of A New Machine Vision-Based Automated Sweetpotato Grading and Sorting System](#)

Jiajun Xu, Yuzhen Lu, Boyang Deng

*Journal of the ASABE* 67(5) (doi: 10.13031/ja.16051)

### [Evaluation of a Process to Separate Ensiled Corn Grain and Stover for Improved Utilization as a Biomass Feedstock](#)

Keagan J. Blazer, Kevin J. Shinnars, Aaron J. Timm, Matthew F. Digman

*Journal of the ASABE* 67(1) (doi: 10.13031/ja.15713)

### [Cleaning performance evaluation of pneumatic spray delivery based solid set canopy delivery system](#)

Eric Mozzanini, Dattatray G. Bhalekar, Marco Grella, Gwen-Alyn Hoheisel, Shar Samy, Paolo Balsari, Fabrizio Gioelli, Lav R. Khot

*Journal of the ASABE* 67(4) (doi: 10.13031/ja.15944)

### [A Model System to Evaluate the Potential of Floating Treatment Wetlands to Manage Phytophthora species in Recycled Irrigation Water](#)

Natasha L. Bell, Neelam R. Redekar, Steven N. Jeffers, Daniel R. Hitchcock, Jennifer L. Parke, Sarah A. White

*Journal of Natural Resources and Agricultural Ecosystems* 2(3) (doi: 10.13031/jnrae.15949)

[Modeling Tillage Effects on Plant-Available Water by Considering Changes in Soil Structure](#)

Sayantan Samanta, Dianna Bagnall, Srinivasulu Ale, Cristine L.S. Morgan, Christine C. Molling  
*Journal of the ASABE* 67(3) (doi: 10.13031/ja.15695)

[Runoff and Erosion Following a Prescribed Fire on a Sagebrush-Steppe Rangeland in Idaho, USA](#)

William J. Elliot  
*Journal of the ASABE* 67(6) (doi: 10.13031/ja.15738)

[Drainage Water Management: A Review of Nutrient Load Reductions and Cost Effectiveness](#)

Jane Frankenberger, Sara K. W. McMillan, M. R. Williams, Katy Mazer, Jared Ross, Brent Sohngen  
*Journal of the ASABE* 67(4) (doi: 10.13031/ja.15549)

[The Heat Transfer Properties of a Stainless Steel Sow Cooling Pad Variant](#)

Charles D. Sebright, Samantha M. Neeno, Allan P. Schinckel, Robert Merton Stwalley III  
*Applied Engineering in Agriculture* 40(4) (doi: 10.13031/aea.15960)

[A Statistical Approach to Understanding How Inter-Kernel Moisture Content Variability Affects Rice Quality](#)

Kaushik Luthra, Abass Oduola, Alan Vazquez, Griffiths Atungulu  
*Journal of the ASABE* 67(4) (doi: 10.13031/ja.15803)