



# 2021 Journal Outstanding Paper Awards

October 27, 2021



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Each year, ASA, CSSA, and SSSA, and its journals recognize outstanding journal papers with annual awards presented at the ASA, CSSA, and SSSA International Annual Meeting. Following are this year's winners.

## **Society Awards**

Articles published during the preceding two years are considered for the current year's award (e.g., articles from 2019 and 2020 are considered for the 2021 award). In general, the selection is based on evaluation of how the article has advanced knowledge in the profession, the effectiveness of communication, and its originality and impact.

### **ASA Society Award Winner**

"Setting the Record Straight on Precision Agriculture Adoption" by James Lowenberg-DeBoer and Bruce Erickson. See <https://doi.org/10.2134/AGRONJ2018.12.0779>

### **CSSA Society Award Winner**

"Cover crop biomass production is more important than diversity for weed suppression," by Chloe MacLaren, Pieter Swanepoel, James Bennett, Julia Wright, and Katharina Dehnen-Schmutz. See <https://doi.org/10.2135/cropsci2018.05.0329>

### **SSSA Society Award Winner**

"Expanding Perspectives of Soil Nitrification to Include Ammonia-Oxidizing Archaea and Comammox Bacteria" by Xinda Lu, Anne E. Taylor, David D. Myrold, and Josh D. Neufeld. See <https://doi.org/10.1002/saj2.20029>



**Bruce Erickson**



**Chloe MacLaren**



**Josh D. Neufeld**

### **Journal Outstanding Paper Awards**

As with the Society Outstanding Paper awards, articles that are eligible for the Journal Outstanding Paper Awards are published during the preceding two years. The articles undergo a selection process based on evaluation of how the article has advanced knowledge in the profession, the effectiveness of communication, and its methodology, originality, and impact.

### **Agricultural & Environmental Letters**

"Phosphorus and Soil Health Management Practices" by Emily W. Duncan, Deanna L. Osmond, Amy L. Shober, Laura Starr, Peter Tomlinson, John L. Kovar, Thomas B. Moorman, Heidi M. Peterson, Nicole M. Fiorellino, and Keith Reid. See  
<https://doi.org/10.2134/ael2019.04.0014>

### **Agrosystems, Geosciences & Environment**

"Genotype × Environment Interactions of Industrial Hemp Cultivars Highlight Diverse Responses to Environmental Factors" by Brian J. Campbell, Abdel F. Berrada, Chris Hudalla, Stefano Amaducci, and John K. McKay. See

<https://acsess.onlinelibrary.wiley.com/doi/full/10.2134/age2018.11.0057>

### **Journal of Environmental Quality**

"In Situ Denitrification in Saturated Riparian Buffers" by Tyler A. Groh, Morgan P. Davis, Thomas M. Isenhart, Dan B. Jaynes, and Timothy B. Parkin. See

<https://doi.org/10.2134/JEQ2018.03.0125>



**Emily Duncan**



**John McKay**



**Tyler Groh**

## **Crop, Forage & Turfgrass Management**

Applied Turfgrass Science Section: "Kentucky Bluegrass Performance Under Chronic Drought Stress" by Daniel Sandor, Douglas Karcher, Michael Richardson, Debra Hightight, and Kenneth Hightight. See <https://doi.org/10.2134/cftm2018.10.0089>

Crop Management Section: "New Grain P and K Concentration Values for Illinois Field Crops" by María B. Villamil, Emerson D. Nafziger, and Gevan D. Behnke. See <https://doi.org/10.2134/cftm2018.11.0090>

Forage and Grazinglands Section: "Mob Grazing Increases Trampling but Not Litter Deposition on a Nebraska Sandhills Subirrigated Meadow" by John A. Guretzky, Martha Mamo, Walter H. Schacht, Jerry D. Volesky, and Ana B. Wingeier. See <https://doi.org/10.1002/CFT2.20047>



**Dan Sandor**



**María Villamil**



**John Guretzky**

## **Natural Sciences Education**

"Impact of Multimedia Learning Tools in Agricultural Science Classes" by April Ulery, Amy Smith Muise, Kenneth C. Carroll, Barbara Chamberlin, Laura White, Pamela Martinez, LaJoy Spears, and Jeanne Gleason. See <https://doi.org/10.1002/nse2.20011>

## **The Plant Genome**

"A sorghum practical haplotype graph facilitates genome-wide imputation and cost-effective genomic prediction" by Sarah E. Jensen, Jean Rigaud Charles, Kebede Muleta, Peter J. Bradbury, Terry Casstevens, Santosh P. Deshpande, ... Michael A. Gore, Rajeev Gupta, Daniel C. Ilut, Lynn Johnson, Roberto Lozano, Zachary Miller, Punna Ramu, Abhishek Rathore, M. Cinta Romay, Hari D. Upadhyaya, Rajeev K. Varshney, Geoffrey P. Morris, Gael Pressoir, Edward S. Buckler, and Guillaume P. Ramstein. See <https://doi.org/10.1002/tpg2.20009>

## **The Plant Phenome Journal**

"FIELDImageR: An R Package to Analyze Orthomosaic Images from Agricultural Field Trials" by Filipe Inácio Matias, Maria V. Caraza-Harter, and Jeffrey B. Endelman. See <https://doi.org/10.1002/ppj2.20005>

"Nutrient Leaching in Soil Affected by Fertilizer Application and Frozen Ground" by Kirsten N. Grant, Merrin L. Macrae, Fereidoun Rezanezhad, and W. Vito Lam. See <https://doi.org/10.2136/vzj2018.08.0150>



**April Ulery**



**Sarah Jensen**



**Filipe Matias**



**Kirsten Grant**

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