

2018 Publications

(updated 12/27/2019)

1793. Acosta-Martinez, V., Cano, A. and **Johnson, J.** 2018. Simultaneous determination of multiple soil enzyme activities for soil health-biogeochemical indices. *Applied Soil Ecology*: 126:121-128. <https://doi.org/10.1016/j.apsoil.2017.11.024>.
1799. Anderson, J.V., Horvath, D.P., Dogramaci, M., Dorn, K.M., Chao, W.S., Watkin, E.E., Hernandez, A.G., Marks, M.D., **Gesch, R.** 2018. Expression of Flowering Locus C and a frameshift mutation of this gene on chromosome 20 differentiate a summer and winter annual biotype of *Camelina sativa*. *Plant Direct*. 2:1-14. <https://doi.org/10.1002/pld3.60>.
1792. Erazo-Barradas, M., **Forcella, F.**, Humburg, D. and Clay, S.A. 2018. Propelled abrasive grit for weed control in organic silage corn. *Agron. J.* 110:632-637. <https://doi.org/10.2134/agronj2017.08.0454>.
1804. **Forcella, F.**, Humburg, D., Wortman, S.E., Clay, S.A. 2018. Air-propelled abrasive grit can damage the perennial weed, quackgrass. *Canadian Journal of Plant Science*. 98(4):963-966. [dx.doi.org/10.1139/cjps-2017-0291](https://doi.org/10.1139/cjps-2017-0291).
1806. **Gesch, R.W.**, Matthees, H.L., Alvarez, A., Gardner, R.D. 2018. Winter camelina: Crop growth, seed yield and quality response to cultivar and seeding rate. *Crop Science*. 58:2089-2098. <https://doi.org/10.2135/cropsci2018.01.0018>.
1791. **Matthees, H.L.**, Thom, M.D., **Gesch, R.W.**, **Forcella, F.** 2018. Salinity tolerance of germinating alternative oilseeds. *Industrial Crops and Products*. 113:358-367. <https://doi.org/10.1016/j.indcrop.2018.01.042>.
1798. **Jaradat, A.A.** 2018. Integrating plant ontogeny and structure in *Brassica napus* L. I. Forward Phenomics. *Euphytica*. 214:141. <https://doi.org/10.1007/s10681-018-2221-4>.
1807. **Jaradat, A.A.** 2018. Simulated climate change differentially impacts phenotypic plasticity and stoichiometric homeostasis in major food crops. *Emirates Journal of Food and Agriculture*, suppl. Special Issue: Climate Change and Food Security. 30(6):429-442.
1802. **Jaradat, A.A.** 2018. Statistical modeling of phenotypic plasticity under abiotic stress in *Triticum durum* L. vs. *T. aestivum* L. genotypes. *Agronomy*. <https://doi.org/10.3390/agronomy8080139>.
1790. **Jaradat, A.A.**, Goldstein, W. 2018. Diversity of maize kernels from a breeding program for protein quality III: Ionome profiling. *Agronomy*. <https://doi.org/10.3390/agronomy8020009>.
1810. **Johnson, J.M.** 2018. A "Soil Lorax" perspective on corn stover for advanced biofuels. *Agronomy Journal*. 110:59-62. <https://doi.org/10.2134/agronj2018.02.0093>.

1795. **Johnson, J. M-F, Gesch, R.W. and Barbour, N.W.** 2018. Limited seed and seed yield response of calendula to applied nitrogen does not justify risk of environmental damage from high urea application rates. *Agriculture*. 8(40). <https://doi.org/10.3390/agriculture8030040>.
1813. **Johnson, J.M., Gesch, R.W., Barbour, N.W.** 2018. Spring camelina N rate: Balancing agronomics and environmental risk in United States Corn Belt. *Archives of Agronomy and Soil Science*. <https://doi.org/10.1080/03650340.2018.1519803>.
1797. Pagliari, P.H., Strock, J.S., **Johnson, J.M.**, Waldrip, H. 2018. Phosphorus distribution in soils treated with bioenergy co-product materials following corn growth. *Agronomy Journal*. 110(3):850-858. <https://doi.org/10.2134/agronj2017.04.0239>.
1794. Perez-Ruiz, M., Brenes, R., Urbano, J.M., Slaughter, D.C., **Forcella, F.**, and Rodríguez-Lizana, A. 2018. Agricultural residues are efficient abrasive tools for weed control. *Agron. Sustain. Develop.* 38:18. <https://doi.org/10.1007/s13593-018-0494-6>.
1800. **Weyers, S.L., Johnson, J.M.**, Archer, D.W., **Forcella, F., Gesch, R.W.** 2018. Manure and residue inputs maintained soil organic carbon in Upper Midwest conservation production systems. *Soil Science Society of America Journal*. 82:878-888. doi/10.2136/sssaj2017.09.0344.
1803. Walia, M.K., Wells, M.S., Cubins, J., Wyse, D., Gardner, R.D., **Forcella, F., Gesch, R.W.** 2018. Winter camelina seed yield and quality responses to harvest time. *Industrial Crops and Products*. 124(15):765-775. <https://doi.org/10.1016/j.indcrop.2018.08.025>.
1814. Wortman, S.E., **Forcella, F.**, Lambe, D., Clay, S.A., Humburg, D. 2018. Profitability of abrasive weeding in organic grain and vegetable crops. *Renewable Agriculture and Food Systems*. 1-6. <https://doi.org/10.1017/S1742170518000479>.
1801. Zanetti, F., Isbell, T., Alexopoulou, E., Evangelista, R.L., **Gesch, R.W.**, Monti, A. 2018. Pennycress (*Thlaspi arvense*): A new oilseed for biofuel production in Europe and the U.S. 26th European Biomass Conference and Exhibition, May 14-17, 2018, Copenhagen, Denmark.