

## Professor LU Dalei

College	College of Agriculture
Current Position	Professor
Types of Tutor	Doctoral Tutor
Language	Chinese/English
Education	Doctor 2009.6
Research Interests	Maize stress-resistance physiology
Selected Publications	<ol style="list-style-type: none"> <li>1. Yang H, Gu X, Ding M, Lu W, Lu D. Weakened carbon and nitrogen metabolisms under post-silking heat stress reduce the yield and dry matter accumulation in waxy maize. <i>Journal of Integrative Agriculture</i>, 2020, 19(1), 78-88</li> <li>2. Guanghao Li, Guigen Cheng, Long Li, Dalei Lu* &amp; Weiping Lu* (2020) Effects of slow-released fertilizer on maize yield, biomass production, and source-sink ratio at different densities. <i>Journal of Plant Nutrition</i>, 43:5, 725-738</li> <li>3. Guanghao Li, Longfei Wang, Long Li, Dalei Lu* &amp; Weiping Lu* (2020) Effects of fertilizer management strategies on maize yield and nitrogen use efficiencies under different densities. <i>Agronomy Journal</i>, 2020, 112, 368-381</li> <li>4. Jue Wang, Pengxiao Fu, Weiping Lu, Dalei Lu. Application of moderate nitrogen levels alleviates yield loss and grain quality deterioration in fresh waxy maize caused by post-silking heat stress. <i>The Crop Journal</i>, doi: 10.1016/j.cj.2019.11.007</li> <li>5. Jue Wang#, Kai Shi#, Weiping Lu, Dalei Lu*. Post-silking Shading Stress Affects Leaf Nitrogen Metabolism of Spring Maize in Southern China. <i>Plants-Basel</i>, 2020, 9, 210.</li> <li>6. Ye Y X, Wen Z R, Yang H, Lu W P, Lu D L. Effects of post silking water deficit on the leaf photosynthesis and senescence of waxy maize. <i>Journal of Integrative Agriculture</i>, doi:</li> </ol>

	<p>10.1016/S2095-3119(20)63158-6</p> <p>7. Wang J, Wen Z, Fu P, Lu W, Lu D. Effects of nitrogen rates on the physicochemical properties of waxy maize starch. <i>Starch-Stärke</i>, 2019, 71, 1900146</p> <p>8. Wen Z R, Shi K, Lu W, Lu D. Effects of post-silking weak-light stress on the flour quality of spring maize. <i>Cereal Chemistry</i>, 2019, 96(4), 742-753</p> <p>9. Yang H, Wen Z, Huang T, Lu W, Lu D. Effects of waterlogging at grain formation stage on starch structure and functionality of waxy maize. <i>Food Chemistry</i>, 2019, 294: 187-193</p> <p>10. Yang H, Gu X, Ding M, Lu W, Lu D. Activities of starch synthetic enzymes and contents of endogenous hormones in waxy maize grains subjected to post-silking water deficit. <i>Scientific Reports</i>, 2019, 9, 7059</p> <p>11. Gu X, Ding M, Lu W, Lu D. Nitrogen topdressing at the jointing stage affects the nutrient accumulation and translocation in rainfed waxy maize. <i>Journal of Plant Nutrition</i>, 2019, 42(6): 657-672.</p> <p>12. Yang H, Gu X, Ding M, Lu W, Lu D. Heat stress during grain filling affects activities of enzymes involved in grain protein and starch synthesis in waxy maize. <i>Scientific Reports</i>, 2018, 8, 15665</p> <p>13. Shi K, Gu X, Lu W, Lu D. Effects of weak-light stress during grain filling on the physicochemical properties of normal maize starch. <i>Carbohydrate Polymers</i>, 2018, 202: 47-55</p> <p>14. Gu X, Huang T, Ding M, Lu W, Lu D. Effects of short-term heat stress at the grain formation stage on physicochemical properties of waxy maize starch. <i>Journal of the Science of Food and Agriculture</i>, 2018, 98(3): 1008-1015</p>
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