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High throughput soil rapid testing system**Rujing Wang**

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Soil environmental chemistry is a hot topic at present. In view of the long period, high cost and low precision in soil testing, we developed a high throughput soil rapid detection system. The testing system consists of four sets: fast drying soil, automatic grinding and screening, automatic extraction of soil and automatic monitoring of soil nutrients. The system realizes the detection of short period soil (less than half a day), bulk, low cost, the traditional 300 yuan/soil fertility index sample testing costs reduced to less than 20 yuan. The corresponding equipments are in accordance with the standards of the agricultural industry of the People's Republic of China (NY/T 2011-2016). The current system can quickly detect 12 elements including soil texture, soil pH, soil lime requirement, soil organic matter, soil total nitrogen, soil nitrogen, soil available phosphorus, soil potassium, soil available potassium, exchangeable calcium and magnesium in soil, soil available sulphur, and soil available Fe Mn Cu Zn boron. The detection precision is over 95%, and the detection speed is 400 Test/h.

Biography

Rujing Wang has completed her PhD from Huazhong University of Science and Technology. He is the Professor at the Hefei Institutes of Physical Science, Chinese Academy of Science. He has published more than 10 papers in reputed journals as the first and other authors, and has some patent for invention.

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