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 .....Xiaolong Li, Xinlin He, Guang Yang, Hongguang Liu, Aihua Long, Fulong Chen, et al. 5 (141)
- Response of spatial structure of cotton root to soil-wetting patterns under mulched drip irrigation  
 .....Dongwei Li, Mingsi Li, Xiaojun Shen, Xinguo Zhou, Hao Sun, Yulong Zhao, et al. 5 (153)

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- Tracking and recognition algorithm for a robot harvesting oscillating apples  
 .....Qinghua Yang, Chen Chen, Jiayu Dai, Yi Xun, Guanjun Bao 5 (163)
- Monocular vision and calculation of regular three-dimensional target pose based on Otsu and Haar-feature AdaBoost classifier  
 .....Yuanhong Li, Hongjun Wang, Weiliang Zhou, Zehao Xue 5 (171)
- Detection navigation baseline in row-following operation of maize weeder based on axis extraction  
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- Effects of pressure and noise on the stability of photoacoustic signals of trace gas components  
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- Determination of damaged wheat kernels with hyperspectral imaging analysis  
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- Applications of beneficial plant growth promoting rhizobacteria and mycorrhizae in rhizosphere and plant growth: A review  
 .....Ashiq Khan, Zitong Ding, Muhammad Ishaq, Israr Khan, Anum Ali Ahmed, Abdul Qadir Khan, et al. 5 (199)

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- Recommendations for green development of motor biofuel industry in China: A review  
 .....Zongxi Zhang, Gang Li, Yinghua Zhang, Jiang Zhang, Chuanzeng Song, Yuguang Zhou 5 (218)

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- Simulation and experiment of rice cleaning in air-separation device based on DEM-CFD coupling method  
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- Effects of germination and aeration treatment following segmented moisture conditioning on the  $\gamma$ -aminobutyric acid accumulation in germinated brown rice .....Qiang Zhang, Nian Liu, Shuangshuang Wang, Leiqing Pan 5 (234)

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- Prediction accuracy of reservoir break flood simulation model using finite volume method and UAV  
 .....Jeongbae Jeon, Won Choi 6 (7)
- Simulation and experimental research on droplet flow characteristics and deposition in airflow field  
 .....Bing Xiahou, Daozong Sun, Shuran Song, Xiuyun Xue, Qiufang Dai 6 (16)
- Design and experiment of low-frequency ultrasonic nozzle integrating air-assistant system and acoustic levitation mechanism  
 .....Jianmin Gao, Mazhar Hussian Tunio, Yiming Chen, Rui He 6 (25)

## Animal, Plant and Facility System (APFS)

- Evaluating avoidance distance and fleeing speed of broilers exposed to aerial systems  
 .....Pratik Parajuli, Yang Zhao, Tom Tabler 6 (34)
- Comparison of direct and indirect determinations of dynamic ventilation rate in a modern dairy free stall barn  
 .....Bing Zou, Albert J. Heber, Zhengxiang Shi, Songhuai Du, Yaomin Jin, Teng Teeh Lim 6 (41)
- Investigation of a root zone heating system for greenhouse seedling and its effects on micro-environment  
 .....Fen He, Yong Hou, Kai Li, Xiaoming Wei, Yaqing Liu 6 (47)
- Effects of window opening style on inside environment of solar greenhouse based on CFD simulation  
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- Method for generating non-circular gear with addendum modification and its application in transplanting mechanism  
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- Multi-objective optimization design of wheat centralized seed feeding device based on particle swarm optimization (PSO) algorithm  
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- Design and experiment of automatic garlic seed directing device  
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- Design and parameters optimization for cutting-conveying mechanism of ramie combine harvester  
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- Development of a measurement system for noise and vibration of combine harvester  
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- Design and experiment of centralized pneumatic deep precision fertilization device for rice transplanter  
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- Design and experiment on atomizer parameter of impinging low-speed centrifugal atomization sprayer  
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