

International Journal of Precision Agricultural Aviation (IJPAA)

Open Access at <https://www.ijpaa.org>

Table of Contents

Volume 3, Number 2, June, 2020

Overview Articles (OA)

- Overview of spray nozzles for plant protection from manned aircrafts: Present research and prospective Haibo Chen, Bradley K Fritz, Yubin Lan, Zhiyan Zhou, Jingfu Zheng (1)
Key technologies for testing and analyzing aerial spray deposition and drift: A comprehensive review Ruirui Zhang, Liping Chen, Yao Wen, Qing Tang, Longlong Li (13)

Research Articles (RA)

- Comparison of water stress coefficient using three alternative canopy temperature-based indices Huihui Zhang, Liyuan Zhang, Yaxiao Niu, Ming Han, Kevin Yemoto (28)
Control efficacy of different pesticide formulations and fan-nozzle model on wheat aphids by UAVs Xiaojing Yan, Huizhu Yuan, Xiaoxin Zhou, Ming Wang, Xin Shi, Yixuan Chen, Daibin Yang (35)
Field evaluation of a Tri-Set spray nozzle for aerial application and discussion on release of biological control agents Yanbo Huang, Steven J. Thomson (40)
Domain centralization and cross-modal reinforcement learning for vision-based robotic manipulation Kai Yang, Zhanpeng Zhang, Hui Cheng, Huadong Wu, Ziying Guo (48)
Method for establishing the UAV-rice vortex 3D model and extracting spatial parameters Jiyu Li, Han Wu, Xiaodan Hu, Gangao Fan, Yifan Li, Bo Long, Xu Wei, Yubin Lan (56)
Deposition and biological efficacy of UAV-based low-volume application in rice fields Guobin Wang, Xuan Li, John Andaloro, Pengchao Chen, Cancan Song, Changfeng Shan, et al. (65)
Nitrogen detection of Dendrobium nobile based on hyperspectral images Teng Long, Yongbing Long, Houcheng Liu, Hailin Liu, Zaihua Wang, Jing Zhao (73)
Automatic difference vegetation index generator for spider mite-infested cotton detection using hyperspectral reflectance Huasheng Huang, Jizhong Deng, Yubin Lan, Aqing Yang, Yan Jiang, Gaoyu Suo, Pengchao Chen (83)
Estimating the severity of sugarcane aphids infestation on sorghum with machine vision Xiaoling Deng, J. Alex Thomasson, N. Ace Pugh, Junxi Chen, William L. Rooney, Michael J. Brewer, Yeyin Shi (89)

Information

- Editorial Team and Board of International Journal of Precision Agricultural Aviation (Inside Covers)
Table of Contents (Front Insert I)
2020 IJPAA Author Guide (Inside Back Cover)