

# Xinran Wang

## List of Publications by Year in descending order

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11  
papers

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citations

1478505

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271  
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#	ARTICLE	IF	CITATIONS
1	Continuous Monitoring of Soil Nitrate Using a Miniature Sensor with Poly(3-octyl-thiophene) and Molybdenum Disulfide Nanocomposite. ACS Applied Materials & Interfaces, 2019, 11, 29195-29206.	8.0	66
2	Nutrient Sensing Using Chip Scale Electrophoresis and <i>In Situ</i> Soil Solution Extraction. IEEE Sensors Journal, 2017, 17, 4330-4339.	4.7	32
3	Directivity-Reconfigurable Wideband Two-Arm Spiral Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 66-69.	4.0	27
4	Microfluidic droplet sorting using integrated bilayer micro-valves. Applied Physics Letters, 2016, 109, .	3.3	18
5	Humidity assay for studying plant-pathogen interactions in miniature controlled discrete humidity environments with good throughput. Biomicrofluidics, 2016, 10, 034108.	2.4	10
6	Tracking of water movement dynamics inside plants using leaf surface humidity sensors. , 2017, , .		10
7	Miniaturized Soil Sensor for Continuous, In-Situ Monitoring of Soil Water Potential. , 2019, , .		10
8	Continuous in situ soil nitrate sensors: The importance of high-resolution measurements across time and a comparison with salt extraction-based methods. Soil Science Society of America Journal, 2021, 85, 677-690.	2.2	9
9	Microfluidic eletrophoretic ion nutrient sensor. , 2016, , .		5
10	Miniaturized, Field-Deployable, Continuous Soil Water Potential Sensor. IEEE Sensors Journal, 2020, 20, 14109-14117.	4.7	5
11	Generation of temperature gradient on microfluidic plant chip for high-throughput plant phenotyping. , 2017, , .		1