## Rony Wallach

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/105515/publications.pdf

Version: 2024-02-01

		471509	3	377865
38	1,278	17		34
papers	citations	h-index		g-index
38	38	38		1566
all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Does biochar affect soil wettability and flow pattern?. Geoderma, 2022, 417, 115826.	5.1	5
2	Modeling Gravityâ€Driven Unstable Flow in Subcritical Waterâ€Repellent Soils With a Timeâ€Dependent Contact Angle. Water Resources Research, 2022, 58, .	4.2	2
3	Detection of Potassium Deficiency and Momentary Transpiration Rate Estimation at Early Growth Stages Using Proximal Hyperspectral Imaging and Extreme Gradient Boosting. Sensors, 2021, 21, 958.	3.8	17
4	Pepper Plants Leaf Spectral Reflectance Changes as a Result of Root Rot Damage. Remote Sensing, 2021, 13, 980.	4.0	5
5	Water infiltration into subcritical water-repellent soils with time-dependent contact angle. Journal of Hydrology, 2021, 595, 126044.	5.4	11
6	Remediating the Adverse Effects of Treated Wastewater Irrigation by Repeated Onâ€Surface Surfactant Application. Water Resources Research, 2021, 57, e2020WR029429.	4.2	10
7	The influence of surfactant-application method on the effectiveness of water-repellent soil remediation. Geoderma, 2020, 362, 114081.	5.1	18
8	Effects of Timeâ€Dependent Contact Angle on Wettability of Subcritically Waterâ€Repellent Soils. Water Resources Research, 2020, 56, e2020WR027314.	4.2	7
9	The Movingâ€Boundary Approach for Modeling 2â€D Gravityâ€Driven Stable and Unstable Flow in Partially Wettable Soils. Water Resources Research, 2020, 56, e2019WR025772.	4.2	12
10	A Telemetric, Gravimetric Platform for Real-Time Physiological Phenotyping of Plant–Environment Interactions. Journal of Visualized Experiments, 2020, , .	0.3	17
11	Structure and hydraulic properties in soils under long-term irrigation with treated wastewater. Geoderma, 2019, 333, 90-98.	5.1	39
12	Spatial variation of soil water repellency in a commercial orchard irrigated with treated wastewater. Geoderma, 2019, 333, 214-224.	5.1	11
13	Dynamic Physiological Phenotyping of Drought-Stressed Pepper Plants Treated With "Productivity-Enhancing―and "Survivability-Enhancing―Biostimulants. Frontiers in Plant Science, 2019, 10, 905.	3.6	48
14	ERT and salinity $\hat{a} \in A$ method to determine whether ERT-detected preferential pathways in brackish water-irrigated soils are water-induced or an artifact of salinity. Journal of Hydrology, 2019, 574, 35-45.	5.4	16
15	Physical Characteristics of Soilless Media. , 2019, , 33-112.		8
16	Quantitative analysis of wetting front instabilities in soil caused by treated waste water irrigation. Geoderma, 2018, 319, 132-141.	5.1	23
17	Riskâ€management strategies and transpiration rates of wild barley in uncertain environments. Physiologia Plantarum, 2018, 164, 412-428.	5.2	17
18	The movingâ€boundary approach for modeling gravityâ€driven stable and unstable flow in soils. Water Resources Research, 2017, 53, 344-360.	4.2	17

#	Article	IF	Citations
19	Induced heterogeneity of soil water content and chemical properties by treated wastewater irrigation and its reclamation by freshwater irrigation. Water Resources Research, 2017, 53, 4756-4774.	4.2	22
20	A combination of stomata deregulation and a distinctive modulation of amino acid metabolism are associated with enhanced tolerance of wheat varieties to transient drought. Metabolomics, 2017, 13, 1.	3.0	6
21	Highâ€throughput physiological phenotyping and screening system for the characterization of plant–environment interactions. Plant Journal, 2017, 89, 839-850.	5.7	123
22	Kinetics of gravityâ€driven slug flow in partially wettable capillaries of varying cross section. Water Resources Research, 2016, 52, 8472-8486.	4.2	3
23	Gravity-driven unsteady-state slug fall in capillaries – modeling and experimental verification. Journal of Adhesion Science and Technology, 2016, 30, 2146-2156.	2.6	0
24	Formation of soil–water repellency in olive orchards and its influence on infiltration pattern. Geoderma, 2016, 262, 1-11.	5.1	43
25	Natural variation and gene regulatory basis for the responses of asparagus beans to soil drought. Frontiers in Plant Science, 2015, 6, 891.	3.6	21
26	Role of aquaporins in determining transpiration and photosynthesis in waterâ€stressed plants: crop waterâ€use efficiency, growth and yield. Plant, Cell and Environment, 2015, 38, 1785-1793.	5.7	195
27	Capillary pressure overshoot for unstable wetting fronts is explained by Hoffman's velocityâ€dependent contactâ€angle relationship. Water Resources Research, 2014, 50, 5290-5297.	4.2	16
28	The role of contact angle on unstable flow formation during infiltration and drainage in wettable porous media. Water Resources Research, 2013, 49, 6508-6521.	4.2	30
29	Synergistic effects of geometry, inertia, and dynamic contact angle on wetting and dewetting of capillaries of varying cross sections. Journal of Colloid and Interface Science, 2013, 396, 270-277.	9.4	20
30	An extension of Miller scaling to scale sorptivity by contact angle. Water Resources Research, 2013, 49, 6927-6932.	4.2	5
31	Moment analysis description of wetting and redistribution plumes in wettable and water-repellent soils. Journal of Hydrology, 2012, 422-423, 30-42.	5.4	21
32	The Effect of Contact Angle on Saturation Overshoot. Vadose Zone Journal, 2011, 10, 466-468.	2.2	8
33	Development of synchronized, autonomous, and self-regulated oscillations in transpiration rate of a whole tomato plant under water stress. Journal of Experimental Botany, 2010, 61, 3439-3449.	4.8	22
34	Effect of soil water repellency on moisture distribution from a subsurface point source. Water Resources Research, 2010, 46, .	4.2	20
35	Improving plant stress tolerance and yield production: is the tonoplast aquaporin SITIP2;2 a key to isohydric to anisohydric conversion?. New Phytologist, 2009, 181, 651-661.	<b>7.</b> 3	302
36	Unstable finger-like flow in water-repellent soils during wetting and redistribution – The case of a point water source. Journal of Hydrology, 2008, 351, 26-41.	5.4	48

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#	Article	IF	CITATION
37	Modeling the Losses of Soil-applied Chemicals in Runoff: Lateral Irrigation versus Precipitation. Soil Science Society of America Journal, 1988, 52, 605-612.	2.2	12
38	Transfer of Chemicals from Soil solution to Surface Runoff: A Diffusionâ€based Soil Model. Soil Science Society of America Journal, 1988, 52, 612-618.	2.2	78