W Alison Forster

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10816572/publications.pdf

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18	515	840776 11	888059 17
papers	citations	h-index	g-index

18	18	18	408
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spray droplet impaction outcomes for different plant species and spray formulations. Crop Protection, 2017, 99, 65-75.	2.1	93
2	Impaction of spray droplets on leaves: influence of formulation and leaf character on shatter, bounce and adhesion. Experiments in Fluids, 2015, 56, 1.	2.4	73
3	Towards a model of sprayâ€“canopy interactions: Interception, shatter, bounce and retention of droplets on horizontal leaves. Ecological Modelling, 2014, 290, 94-101.	2.5	71
4	Spray retention on whole plants: modelling, simulations and experiments. Crop Protection, 2016, 88, 118-130.	2.1	45
5	Quantification of physical (roughness) and chemical (dielectric constant) leaf surface properties relevant to wettability and adhesion. Pest Management Science, 2011, 67, 1562-1570.	3.4	43
6	Mechanisms of cuticular uptake of xenobiotics into living plants: 1. Influence of xenobiotic dose on the uptake of three model compounds applied in the absence and presence of surfactants intoChenopodium album, Hedera helix andStephanotis floribunda leaves. Pest Management Science, 2004, 60, 1105-1113.	3.4	38
7	Evaporating droplets on inclined plant leaves and synthetic surfaces: Experiments and mathematical models. Journal of Colloid and Interface Science, 2021, 592, 329-341.	9.4	26
8	The contribution of spray formulation component variables to foliar uptake of agrichemicals. Pest Management Science, 2015, 71, 1324-1334.	3.4	18
9	Effect of solution and leaf surface polarity on droplet spread area and contact angle. Pest Management Science, 2016, 72, 551-557.	3.4	17
10	Nonlinear Porous Diffusion Modeling of Hydrophilic Ionic Agrochemicals in Astomatous Plant Cuticle Aqueous Pores: A Mechanistic Approach. Frontiers in Plant Science, 2017, 8, 746.	3.6	17
11	Simulating droplet motion on virtual leaf surfaces. Royal Society Open Science, 2015, 2, 140528.	2.4	14
12	Simulating spray droplet impaction outcomes: comparison with experimental data. Pest Management Science, 2020, 76, 3469-3476.	3.4	13
13	A Model for Spray Droplet Adhesion, Bounce or Shatter at a Crop Leaf Surface. Mathematics in Industry, 2010, , 945-951.	0.3	13
14	Image analysis of shatter and pinning events on hardâ€toâ€wet leaf surfaces by drops containing surfactant. Pest Management Science, 2020, 76, 3477-3486.	3.4	11
15	Mechanisms of Cuticular Uptake of Xenobiotics into Living Plants:Â Evaluation of a Logisticâ^'Kinetic Penetration Model. Journal of Agricultural and Food Chemistry, 2006, 54, 3025-3032.	5.2	10
16	Due diligence required to quantify and visualise agrichemical spray deposits using dye tracers. Crop Protection, 2019, 115, 92-98.	2.1	8
17	Mathematical Modelling of Hydrophilic Ionic Fertiliser Diffusion in Plant Cuticles: Lipophilic Surfactant Effects. Plants, 2019, 8, 202.	3.5	5
18	Is Retention the Old-New Problem in a Drift-Control Era?. , 2018, , 106-114.		0