

# W Alison Forster

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

515  
citations

840776

11  
h-index

888059

17  
g-index

18  
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18  
docs citations

18  
times ranked

408  
citing authors

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