Dagmar Voigt

List of Publications by Year
in descending order

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62	1,549	361296	330025
papers	citations	20 h-index	37 g-index

66	66	66	1402
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sexual dimorphism in the attachment ability of the Colorado potato beetle Leptinotarsa decemlineata (Coleoptera: Chrysomelidae) to rough substrates. Journal of Insect Physiology, 2008, 54, 765-776.	0.9	165
2	Leaf surface structures enable the endemic Namib desert grass Stipagrostis sabulicola to irrigate itself with fog water. Journal of the Royal Society Interface, 2012, 9, 1965-1974.	1.5	158
3	Plant surfaceâ€“bug interactions: Dicyphus errans stalking along trichomes. Arthropod-Plant Interactions, 2007, 1, 221-243.	0.5	98
4	Cytocompatible, Injectable, and Electroconductive Soft Adhesives with Hybrid Covalent/Noncovalent Dynamic Network. Advanced Science, 2019, 6, 1802077.	5.6	84
5	Convergent synthesis of diversified reversible network leads to liquid metal-containing conductive hydrogel adhesives. Nature Communications, 2021, 12, 2407.	5.8	70
6	Attachment force of the beetle Cryptolaemus montrouzieri (Coleoptera, Coccinellidae) on leaflet surfaces of mutants of the pea Pisum sativum (Fabaceae) with regular and reduced wax coverage. Arthropod-Plant Interactions, 2008, 2, 247-259.	0.5	57
7	An insect trap as habitat: cohesion-failure mechanism prevents adhesion ofPameridea roridulaebugs to the sticky surface of the plantRoridula gorgonias. Journal of Experimental Biology, 2008, 211, 2647-2657.	0.8	50
8	Egg attachment of the asparagus beetle Crioceris asparagi to the crystalline waxy surface of Asparagus officinalis. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 895-903.	1.2	49
9	Conductive Hydrogels with Dynamic Reversible Networks for Biomedical Applications. Advanced Healthcare Materials, 2021, 10, e2100012.	3.9	47
10	Always on the bright side: the climbing mechanism of Galium aparine. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2233-2239.	1.2	44
11	Leaf beetle attachment on wrinkles: isotropic friction on anisotropic surfaces. Journal of Experimental Biology, 2012, 215, 1975-1982.	0.8	40
12	Locomotion in a sticky terrain. Arthropod-Plant Interactions, 2010, 4, 69-79.	0.5	36
13	Tarsal morphology and attachment ability of the codling moth Cydia pomonella L. (Lepidoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	32
14	Extensive collection of femtolitre pad secretion droplets in the beetleLeptinotarsa decemlineataallows nanolitre microrheology. Journal of the Royal Society Interface, 2010, 7, 1745-1752.	1.5	32
15	Insect Epicuticular Grease Visualised by Scanning Probe Microscopy. Microscopy Today, 2008, 16, 42-45.	0.2	31
16	Attachment ability of the codling moth Cydia pomonella L. to rough substrates. Journal of Insect Physiology, 2010, 56, 1966-1972.	0.9	31
17	Shoe soles for the gripping robot: Searching for polymer-based materials maximising friction. Robotics and Autonomous Systems, 2012, 60, 1046-1055.	3.0	30
18	Attachment of honeybees and greenbottle flies to petal surfaces. Arthropod-Plant Interactions, 2017, 11, 171-192.	0.5	30

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19	Tomato-aphid-hoverfly: a tritrophic interaction incompatible for pest management. Arthropod-Plant Interactions, 2009, 3, 141-149.	0.5	29
20	Construction of Eukaryotic Cell Biomimetics: Hierarchical Polymersomesâ€inâ€Proteinosome Multicompartment with Enzymatic Reactions Modulated Protein Transportation. Small, 2021, 17, e2005749.	5.2	26
21	Egg adhesion of the codling moth Cydia pomonella L. (Lepidoptera, Tortricidae) to various substrates: I. Leaf surfaces of different apple cultivars. Arthropod-Plant Interactions, 2012, 6, 471-488.	0.5	21
22	Spermâ€“Particle Interactions and Their Prospects for Charge Mapping. Advanced Biology, 2019, 3, e1900061.	3.0	21
23	Changes in tarsal morphology and attachment ability to rough surfaces during ontogenesis in the beetle Gastrophysa viridula (Coleoptera, Chrysomelidae). Arthropod Structure and Development, 2017, 46, 130-137.	0.8	20
24	Attachment ability of sawfly larvae to smooth surfaces. Arthropod Structure and Development, 2012, 41, 145-153.	0.8	18
25	How tight are beetle hugs? Attachment in mating leaf beetles. Royal Society Open Science, 2017, 4, 171108.	1.1	18
26	Egg adhesion of the codling moth Cydia pomonella L. (Lepidoptera, Tortricidae) to various substrates: II. Fruit surfaces of different apple cultivars. Arthropod-Plant Interactions, 2014, 8, 57-77.	0.5	17
27	Locomotion and attachment of leaf beetle larvaeGastrophysa viridula(Coleoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.5	17
28	Herbivory-responsive calmodulin-like protein CML9 does not guide jasmonate-mediated defenses in Arabidopsis thaliana. PLoS ONE, 2018, 13, e0197633.	1.1	17
29	Hierarchical organisation of the trap in the protocarnivorous plant Roridula gorgonias (Roridulaceae). Journal of Experimental Biology, 2009, 212, 3184-3191.	0.8	16
30	Functional morphology of tarsal adhesive pads and attachment ability in ticksIxodes ricinus(Arachnida, Acari, Ixodidae). Journal of Experimental Biology, 2017, 220, 1984-1996.	0.8	16
31	Skating and diving: Changes in functional morphology of the setal and microtrichial cover during ontogenesis inAquarius paludum fabricius (Heteroptera, Gerridae). Journal of Morphology, 2008, 269, 734-744.	0.6	15
32	Extracellular ice management in the frost hardy horsetail Equisetum hyemale L.. Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 234, 207-214.	0.6	15
33	Strongest grip on the rod: tarsal morphology and attachment of Japanese pine sawyer beetles. Zoological Letters, 2017, 3, 16.	0.7	15
34	Temporary stay at various environmental humidities affects attachment ability of Colorado potato beetles Leptinotarsa decemlineata (Coleoptera, Chrysomelidae). Journal of Zoology, 2010, 281, 227-231.	0.8	14
35	Gripping ease in southern green stink bugs Nezara viridula L. (Heteroptera: Pentatomidae): Coping with geometry, orientation and surface wettability of substrate. Entomological Science, 2019, 22, 105-118.	0.3	14
36	A universal glue: underwater adhesion of the secretion of the carnivorous flypaper plantRoridula gorgonias. Interface Focus, 2015, 5, 20140053.	1.5	12

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37	INSPIRAT â€“ TOWARDS A BIOLOGICALLY INSPIRED CLIMBING ROBOT FOR THE INSPECTION OF LINEAR STRUCTURES. , 2008, , .		11
38	Desiccation resistance of adhesive secretion in the protocarnivorous plant Roridula gorgonias as an adaptation to periodically dry environment. Planta, 2010, 232, 1511-1515.	1.6	11
39	Attachment ability of the southern green stink bug, Nezara viridula (L.), on plant surfaces. Arthropod-Plant Interactions, 2018, 12, 415-421.	0.5	11
40	On the laboratory rearing of green dock leaf beetles Gastrophysa viridula (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (Ch	1.5	10
41	Crystalline wax coverage of the cuticle in easy bleeding sawfly larvae. Arthropod Structure and Development, 2011, 40, 186-189.	0.8	9
42	Plant pressure sensitive adhesives: similar chemical properties in distantly related plant lineages. Planta, 2016, 244, 145-154.	1.6	9
43	Inter- and intraspecific differences in leaf beetle attachment on rigid and compliant substrates. Journal of Zoology, 2019, 307, 1-8.	0.8	8
44	Robust, universal, and persistent bud secretion adhesion in horse-chestnut trees. Scientific Reports, 2020, 10, 16925.	1.6	8
45	Superhydrophobic cuticle with a â€œpinning effectâ€•in the larvae of the iris sawfly, Rhadinoceraea micans (Hymenoptera, Tenthredinidae). Zoology, 2011, 114, 265-271.	0.6	7
46	Foothold matters: attachment on plant surfaces promotes the vitality of omnivorous mirid bugs Dicyphus errans. Arthropod-Plant Interactions, 2019, 13, 819-834.	0.5	6
47	Visualization of Epicuticular Grease on the Covering Wings in the Colorado Potato Beetle: A Scanning Probe Approach. Nanoscience and Technology, 2009, , 1-16.	1.5	6
48	A vegetable oilâ€“based biopesticide with ovicidal activity against the twoâ€spotted spider mite, Tetranychus urticae Koch. Engineering in Life Sciences, 2020, 20, 525-534.	2.0	5
49	Cryo-scanning electron microscopy studies of pits in Pinus Wallichiana and Mallotus Japonicus. IAWA Journal, 2010, 31, 257-267.	2.7	4
50	In situ visualization of spider mite-plant interfaces. Journal of the Acarological Society of Japan, 2016, 25, S119-S132.	0.4	4
51	Anchoring of greenhouse whitefly eggs on different rose cultivars. Arthropod-Plant Interactions, 2019, 13, 335-348.	0.5	4
52	Cuticular Hydrocarbon Trails Released by Host Larvae Lose their Kairomonal Activity for Parasitoids by Solidification. Journal of Chemical Ecology, 2021, 47, 998-1013.	0.9	4
53	Visualization of Small Water Droplets on Surfaces with Different Degree of Wettability by Using Cryo-Scanning Electron Microscopy. Journal of Advanced Microscopy Research, 2012, 7, 64-67.	0.3	4
54	New results on sexual differences in tarsal adhesive setae of Diabrotica virgifera virgifera LeConte (Coleoptera, Chrysomelidae, Galerucinae). European Journal of Environmental Sciences, 2014, 4, 97-101.	0.6	4

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55	Integument and defence in larva and prepupa of a sawfly living on a semi-aquatic plant. Die Naturwissenschaften, 2013, 100, 107-110.	0.6	3
56	Evidence for a sexually selected function of the attachment system in bedbugs Cimex lectularius (Heteroptera, Cimicidae). Journal of Experimental Biology, 2019, 222, .	0.8	3
57	Comparison of tarsal attachment in two closely related leaf beetle species. Journal of Insect Physiology, 2020, 127, 104158.	0.9	3
58	A Selfâ€Assembled Matrix System for Cellâ€Bioengineering Applications in Different Dimensions, Scales, and Geometries. Small, 2022, 18, e2104758.	5.2	3
59	Ten years of â€˜APISâ€™ impact: 10 years in communication and advance toward understanding complex arthropod-plant interactions. Arthropod-Plant Interactions, 2019, 13, 153-155.	0.5	1
60	â€œPush and Pullâ€: Biomechanics of the Pollination Apparatus of Oncidium spp.. Frontiers in Mechanical Engineering, 2021, 6, .	0.8	1
61	Charge Mapping: Spermâ€“Particle Interactions and Their Prospects for Charge Mapping (Adv. Biosys.) Tj ETQq1 1 0.784314 rgBT /Ov	3.0	0
62	Eukaryotic Cell Biomimetics: Construction of Eukaryotic Cell Biomimetics: Hierarchical Polymersomesâ€inâ€Proteinosome Multicompartment with Enzymatic Reactions Modulated Protein Transportation (Small 7/2021). Small, 2021, 17, 2170026.	5.2	0