

S N Gorb

List of Publications by Year in descending order

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528
papers

20,631
citations

12303

69
h-index

18606

119
g-index

548
all docs

548
docs citations

548
times ranked

9642
citing authors

#	ARTICLE	IF	CITATIONS
1	From micro to nano contacts in biological attachment devices. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10603-10606.	3.3	985
2	Mechanics of hierarchical adhesion structures of geckos. Mechanics of Materials, 2005, 37, 275-285.	1.7	592
3	Evidence for capillarity contributions to gecko adhesion from single spatula nanomechanical measurements. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16293-16296.	3.3	576
4	Biomimetic mushroom-shaped fibrillar adhesive microstructure. Journal of the Royal Society Interface, 2007, 4, 271-275.	1.5	447
5	Ultrastructure of attachment specializations of hexapods (Arthropoda): evolutionary patterns inferred from a revised ordinal phylogeny. Journal of Zoological Systematics and Evolutionary Research, 2001, 39, 177-207.	0.6	390
6	The effect of surface roughness on the adhesion of elastic plates with application to biological systems. Journal of Chemical Physics, 2003, 119, 11437-11444.	1.2	370
7	Roughness-dependent friction force of the tarsal claw system in the beetle <i>Pachnoda marginata</i> (Coleoptera, Scarabaeidae). Journal of Experimental Biology, 2002, 205, 2479-2488.	0.8	284
8	Fabrication of Macroscopically Flexible and Highly Porous 3D Semiconductor Networks from Interpenetrating Nanostructures by a Simple Flame Transport Approach. Particle and Particle Systems Characterization, 2013, 30, 775-783.	1.2	278
9	Adhesion design maps for bio-inspired attachment systems. Acta Biomaterialia, 2005, 1, 5-13.	4.1	250
10	Resolving the nanoscale adhesion of individual gecko spatulae by atomic force microscopy. Biology Letters, 2005, 1, 2-4.	1.0	239
11	Evidence for a material gradient in the adhesive tarsal setae of the ladybird beetle <i>Coccinella septempunctata</i> . Nature Communications, 2013, 4, 1661.	5.8	238
12	Origin of the superior adhesive performance of mushroom-shaped microstructured surfaces. Soft Matter, 2011, 7, 5545.	1.2	226
13	Hexagonal Surface Micropattern for Dry and Wet Friction. Advanced Materials, 2009, 21, 483-486.	11.1	207
14	Biological attachment devices: exploring nature's diversity for biomimetics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1557-1574.	1.6	197
15	Detailed three-dimensional visualization of resilin in the exoskeleton of arthropods using confocal laser scanning microscopy. Journal of Microscopy, 2012, 245, 1-16.	0.8	192
16	Roughness-dependent friction force of the tarsal claw system in the beetle <i>Pachnoda marginata</i> (Coleoptera, Scarabaeidae). Journal of Experimental Biology, 2002, 205, 2479-88.	0.8	189
17	Ultrastructural architecture and mechanical properties of attachment pads in <i>Tettigonia viridissima</i> (Orthoptera Tettigoniidae). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2000, 186, 821-831.	0.7	185
18	Influence of surface roughness on gecko adhesion. Acta Biomaterialia, 2007, 3, 607-610.	4.1	184

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19	Adhesion Measured on the Attachment Pads of <i>Tettigonia Viridissima</i> (Orthoptera, Insecta). Journal of Experimental Biology, 2000, 203, 1887-1895.	0.8	179
20	Spatulate structures in biological fibrillar adhesion. Soft Matter, 2010, 6, 3269.	1.2	168
21	Sexual dimorphism in the attachment ability of the Colorado potato beetle <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae) to rough substrates. Journal of Insect Physiology, 2008, 54, 765-776.	0.9	165
22	The function of resilin in beetle wings. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 1375-1381.	1.2	162
23	Composite structure of the crystalline epicuticular wax layer of the slippery zone in the pitchers of the carnivorous plant <i>Nepenthes alata</i> and its effect on insect attachment. Journal of Experimental Biology, 2005, 208, 4651-4662.	0.8	160
24	Microbial colonization and degradation of polyethylene and biodegradable plastic bags in temperate fine-grained organic-rich marine sediments. Marine Pollution Bulletin, 2016, 103, 168-178.	2.3	155
25	Biologically Inspired Mushroom-Shaped Adhesive Microstructures. Annual Review of Materials Research, 2014, 44, 173-203.	4.3	147
26	Chemical composition of the attachment pad secretion of the locust <i>Locusta migratoria</i> . Insect Biochemistry and Molecular Biology, 2002, 32, 1605-1613.	1.2	145
27	Emerging Roots Alter Epidermal Cell Fate through Mechanical and Reactive Oxygen Species Signaling. Plant Cell, 2012, 24, 3296-3306.	3.1	145
28	Tarsal movements in flies during leg attachment and detachment on a smooth substrate. Journal of Insect Physiology, 2003, 49, 611-620.	0.9	140
29	Evolution of locomotory attachment pads of hexapods. Die Naturwissenschaften, 2001, 88, 530-534.	0.6	137
30	Remote Control over Underwater Dynamic Attachment/Detachment and Locomotion. Advanced Materials, 2018, 30, e1801595.	11.1	137
31	Local mechanical properties of the head articulation cuticle in the beetle <i>Pachnoda marginata</i> (Coleoptera, Scarabaeidae). Journal of Experimental Biology, 2006, 209, 722-730.	0.8	135
32	Shearing of fibrillar adhesive microstructure: friction and shear-related changes in pull-off force. Journal of the Royal Society Interface, 2007, 4, 721-725.	1.5	133
33	Serial Elastic Elements in the Damselfly Wing: Mobile Vein Joints Contain Resilin. Die Naturwissenschaften, 1999, 86, 552-555.	0.6	130
34	Elastic joints in dermapteran hind wings: materials and wing folding. Arthropod Structure and Development, 2000, 29, 137-146.	0.8	130
35	Adhesion measured on the attachment pads of <i>Tettigonia viridissima</i> (Orthoptera, insecta). Journal of Experimental Biology, 2000, 203, 1887-95.	0.8	126
36	Function of epidermal surfaces in the trapping efficiency of <i>Nepenthes alata</i> pitchers. New Phytologist, 2002, 156, 479-489.	3.5	125

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37	Biological microtribology: anisotropy in frictional forces of orthopteran attachment pads reflects the ultrastructure of a highly deformable material. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 1239-1244.	1.2	124
38	Adhesion forces measured at the level of a terminal plate of the fly's seta. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2209-2215.	1.2	120
39	Hierarchical self-entangled carbon nanotube tube networks. <i>Nature Communications</i> , 2017, 8, 1215.	5.8	120
40	Contact behaviour of tenent setae in attachment pads of the blowfly <i>Calliphora vicina</i> (Diptera). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i> <i>Physiology</i> , 2002, 187, 961-970.	0.7	119
41	How do plant waxes cause flies to slide? Experimental tests of wax-based trapping mechanisms in three pitfall carnivorous plants. <i>Arthropod Structure and Development</i> , 2004, 33, 103-111.	0.8	117
42	Material structure, stiffness, and adhesion: why attachment pads of the grasshopper (<i>Tettigonia</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5</i> <i>Physiology</i> , 2006, 192, 1233-1243.	0.7	117
43	Bioinspired photocontrollable microstructured transport device. <i>Science Robotics</i> , 2017, 2, .	9.9	116
44	Scale effects on the attachment pads and friction forces in syrphid flies (Diptera, Syrphidae). <i>Journal of Experimental Biology</i> , 2001, 204, 1421-1431.	0.8	111
45	Adhesion of echinoderm tube feet to rough surfaces. <i>Journal of Experimental Biology</i> , 2005, 208, 2555-2567.	0.8	109
46	Friction and adhesion in the tarsal and metatarsal scopulae of spiders. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2006, 192, 1223-1232.	0.7	109
47	Functional diversity of resilin in Arthropoda. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1241-1259.	1.5	102
48	A beetle-inspired solution for underwater adhesion. <i>Journal of the Royal Society Interface</i> , 2008, 5, 383-385.	1.5	100
49	Ultrastructure of dragonfly wing veins: composite structure of fibrous material supplemented by resilin. <i>Journal of Anatomy</i> , 2015, 227, 561-582.	0.9	99
50	Plant surface "bug interactions: <i>Dicyphus errans</i> stalking along trichomes. <i>Arthropod-Plant Interactions</i> , 2007, 1, 221-243.	0.5	98
51	Visualization of Wave Propagation and Fine Structure in Frictional Motion of Unconstrained Soft Microstructured Tapes. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	95
52	Epidermis architecture and material properties of the skin of four snake species. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3140-3155.	1.5	94
53	Close-up of mushroom-shaped fibrillar adhesive microstructure: contact element behaviour. <i>Journal of the Royal Society Interface</i> , 2008, 5, 785-789.	1.5	92
54	Anisotropic Friction of the Ventral Scales in the Snake <i>Lampropeltis getula californiae</i> . <i>Tribology Letters</i> , 2014, 54, 139-150.	1.2	89

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55	Surface structure and frictional properties of the skin of the Amazon tree boa <i>Corallus hortulanus</i> (Squamata, Boidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009, 195, 311-318.	0.7	86
56	Structure and mechanics of the tarsal chain in the hornet, <i>Vespa crabro</i> (Hymenoptera: Vespidae): implications on the attachment mechanism. <i>Arthropod Structure and Development</i> , 2004, 33, 77-89.	0.8	85
57	Structure and properties of the glandular surface in the digestive zone of the pitcher in the carnivorous plant <i>Nepenthes ventrata</i> and its role in insect trapping and retention. <i>Journal of Experimental Biology</i> , 2004, 207, 2947-2963.	0.8	84
58	Slippery pores: anti-adhesive effect of nanoporous substrates on the beetle attachment system. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1571-1579.	1.5	83
59	Elastic deformation and energy loss of flapping fly wings. <i>Journal of Experimental Biology</i> , 2011, 214, 2949-2961.	0.8	82
60	Humidity-enhanced wet adhesion on insect-inspired fibrillar adhesive pads. <i>Nature Communications</i> , 2015, 6, 6621.	5.8	80
61	Scale effects on the attachment pads and friction forces in syrphid flies (Diptera, Syrphidae). <i>Journal of Experimental Biology</i> , 2001, 204, 1421-31.	0.8	79
62	A multiscale study on the structural and mechanical properties of the luffa sponge from <i>Luffa cylindrica</i> plant. <i>Journal of Biomechanics</i> , 2014, 47, 1332-1339.	0.9	78
63	Elastic modulus of tree frog adhesive toe pads. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011, 197, 969-78.	0.7	77
64	Mapping the Surface Microbiome and Metabolome of Brown Seaweed <i>Fucus vesiculosus</i> by Amplicon Sequencing, Integrated Metabolomics and Imaging Techniques. <i>Scientific Reports</i> , 2019, 9, 1061.	1.6	76
65	Uncovering Insect Stickiness: Structure and Properties of Hairy Attachment Devices. <i>American Entomologist</i> , 2005, 51, 31-35.	0.1	75
66	Tools for crushing diatoms – opal teeth in copepods feature a rubber-like bearing composed of resilin. <i>Scientific Reports</i> , 2012, 2, 465.	1.6	75
67	Adhesion Failure at 180,000 Frames per Second: Direct Observation of the Detachment Process of a Mushroom-Shaped Adhesive. <i>Physical Review Letters</i> , 2013, 111, 104301.	2.9	75
68	Design of insect unguitactor apparatus. , 1996, 230, 219-230.		74
69	Surface roughness effects on attachment ability of the spider <i>Philodromus dispar</i> (Araneae.) <i>Tj ETQq1 1 0.784314 rgBJ4/Overlock</i>	0.8	74
70	Shear induced adhesion: Contact mechanics of biological spatula-like attachment devices. <i>Journal of Theoretical Biology</i> , 2011, 276, 126-131.	0.8	72
71	The Evolution of Tarsal Adhesive Microstructures in Stick and Leaf Insects (Phasmatodea). <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	1.1	72
72	Microsculpture of the wing surface in Odonata: evidence for cuticular wax covering. <i>Arthropod Structure and Development</i> , 2000, 29, 129-135.	0.8	71

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73	Spring model of biological attachment pads. <i>Journal of Theoretical Biology</i> , 2006, 243, 48-53.	0.8	71
74	Effects of surface topography and chemistry of <i>Rumex obtusifolius</i> leaves on the attachment of the beetle <i>Gastrophysa viridula</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2009, 130, 222-228.	0.7	71
75	Spider's super-glue: thread anchors are composite adhesives with synergistic hierarchical organization. <i>Soft Matter</i> , 2015, 11, 2394-2403.	1.2	71
76	Material properties of the skin of the Kenyan sand boa <i>Gongylophis colubrinus</i> (Squamata, Boidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2010, 196, 659-668.	0.7	69
77	Suction component in adhesion of mushroom-shaped microstructure. <i>Journal of the Royal Society Interface</i> , 2011, 8, 585-589.	1.5	69
78	Exploring Biological Surfaces by Nanoindentation. <i>Journal of Materials Research</i> , 2004, 19, 880-887.	1.2	68
79	Anti-adhesive effects of plant wax coverage on insect attachment. <i>Journal of Experimental Botany</i> , 2017, 68, 5323-5337.	2.4	68
80	Evolution of locomotory attachment pads in the Dermaptera (Insecta). <i>Arthropod Structure and Development</i> , 2004, 33, 45-66.	0.8	63
81	The jumping mechanism of cicada <i>Cercopis vulnerata</i> (Auchenorrhyncha, Cercopidae): skeletal muscle organisation, frictional surfaces, and inverse-kinematic model of leg movements. <i>Arthropod Structure and Development</i> , 2004, 33, 201-220.	0.8	63
82	Towards a micromechanical understanding of biological surface devices. <i>International Journal of Materials Research</i> , 2002, 93, 345-351.	0.8	62
83	Underwater locomotion in a terrestrial beetle: combination of surface de-wetting and capillary forces. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4236-4242.	1.2	62
84	Hairy suckers: the surface microstructure and its possible functional significance in the <i>Octopus vulgaris</i> sucker. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 561-565.	1.5	60
85	Complex shaped ZnO nano- and microstructure based polymer composites: mechanically stable and environmentally friendly coatings for potential antifouling applications. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7114-7123.	1.3	60
86	Wet versus dry adhesion of biomimetic mushroom-shaped microstructures. <i>Soft Matter</i> , 2012, 8, 7560.	1.2	59
87	Morphological studies of the toe pads of the rock frog, <i>Staurois parvus</i> (family: Ranidae) and their relevance to the development of new biomimetically inspired reversible adhesives. <i>Interface Focus</i> , 2015, 5, 20140036.	1.5	58
88	Surface roughness rather than surface chemistry essentially affects insect adhesion. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1471-1479.	1.5	58
89	The synergy between the insect-inspired claws and adhesive pads increases the attachment ability on various rough surfaces. <i>Scientific Reports</i> , 2016, 6, 26219.	1.6	58
90	Effect of microstructure on the mechanical and damping behaviour of dragonfly wing veins. <i>Royal Society Open Science</i> , 2016, 3, 160006.	1.1	58

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91	Attachment force of the beetle <i>Cryptolaemus montrouzeri</i> (Coleoptera, Coccinellidae) on leaflet surfaces of mutants of the pea <i>Pisum sativum</i> (Fabaceae) with regular and reduced wax coverage. <i>Arthropod-Plant Interactions</i> , 2008, 2, 247-259.	0.5	57
92	Resilin microjoints: a smart design strategy to avoid failure in dragonfly wings. <i>Scientific Reports</i> , 2016, 6, 39039.	1.6	57
93	Contact Mechanics and Friction on Dry and Wet Human Skin. <i>Tribology Letters</i> , 2013, 50, 17-30.	1.2	56
94	Male clasping ability, female polymorphism and sexual conflict: fine-scale elytral morphology as a sexually antagonistic adaptation in female diving beetles. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130409.	1.5	56
95	Fibrillar adhesion with no clusterisation: Functional significance of material gradient along adhesive setae of insects. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 837-845.	1.5	56
96	Silk-like secretion from tarantula feet. <i>Nature</i> , 2006, 443, 407-407.	13.7	55
97	Adhesive and frictional properties of tarsal attachment pads in two species of stick insects (Phasmatodea) with smooth and nubby euplantulae. <i>Zoology</i> , 2012, 115, 135-141.	0.6	55
98	Frictional-anisotropy-based systems in biology: structural diversity and numerical model. <i>Scientific Reports</i> , 2013, 3, 1240.	1.6	55
99	Evolutionary scenarios for unusual attachment devices of Phasmatodea and Mantophasmatodea (Insecta). <i>Systematic Entomology</i> , 2008, 33, 501-510.	1.7	54
100	Dry friction of microstructured polymer surfaces inspired by snake skin. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1091-1103.	1.5	54
101	Ontogenesis of the attachment ability in the bug <i>Coreus marginatus</i> (Heteroptera, Insecta). <i>Journal of Experimental Biology</i> , 2004, 207, 2917-2924.	0.8	53
102	Physicochemical Properties of Functional Surfaces in Pitchers of the Carnivorous Plant <i>Nepenthes alata</i> Blanco (Nepenthaceae). <i>Plant Biology</i> , 2006, 8, 841-848.	1.8	53
103	Geometry-controlled adhesion: revisiting the contact splitting hypothesis. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 933-938.	1.1	52
104	Dragonfly wing nodus: A one-way hinge contributing to the asymmetric wing deformation. <i>Acta Biomaterialia</i> , 2017, 60, 330-338.	4.1	52
105	Visualisation of Native Surfaces by Two-Step Molding. <i>Microscopy Today</i> , 2007, 15, 44-47.	0.2	51
106	Smooth Attachment Devices in Insects: Functional Morphology and Biomechanics. <i>Advances in Insect Physiology</i> , 2007, , 81-115.	1.1	50
107	An insect trap as habitat: cohesion-failure mechanism prevents adhesion of <i>Pameridea roridulae</i> bugs to the sticky surface of the plant <i>Roridula gorgonias</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 2647-2657.	0.8	50
108	Insect walking techniques on thin stems. <i>Arthropod-Plant Interactions</i> , 2007, 1, 77-91.	0.5	49

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109	Egg attachment of the asparagus beetle <i>Crioceris asparagi</i> to the crystalline waxy surface of <i>Asparagus officinalis</i> . Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 895-903.	1.2	49
110	Material composition of the mouthpart cuticle in a damselfly larva (Insecta: Odonata) and its biomechanical significance. Royal Society Open Science, 2018, 5, 172117.	1.1	49
111	Terminal contact elements of insect attachment devices studied by transmission X-ray microscopy. Journal of Experimental Biology, 2008, 211, 1958-1963.	0.8	48
112	Friction behavior of a microstructured polymer surface inspired by snake skin. Beilstein Journal of Nanotechnology, 2014, 5, 83-97.	1.5	48
113	Generation of bioinspired structural colors via two-photon polymerization. Scientific Reports, 2017, 7, 17622.	1.6	48
114	Gecko's Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. Chemistry of Materials, 2021, 33, 2785-2795.	3.2	48
115	Title is missing!. Journal of Insect Behavior, 1998, 11, 73-92.	0.4	46
116	Force transformation in spider strain sensors: white light interferometry. Journal of the Royal Society Interface, 2012, 9, 1254-1264.	1.5	46
117	Stiffness distribution in insect cuticle: a continuous or a discontinuous profile?. Journal of the Royal Society Interface, 2017, 14, 20170310.	1.5	46
118	Inversion of friction anisotropy in a bio-inspired asymmetrically structured surface. Journal of the Royal Society Interface, 2018, 15, 20170629.	1.5	46
119	The influence of humidity on the attachment ability of the spider <i>Philodromus dispar</i> (Araneae). Tj ETQq1 1 0.784314 rgBT /Ove	1.2	45
120	Radial arrangement of Janus-like setae permits friction control in spiders. Scientific Reports, 2013, 3, 1101.	1.6	44
121	Adhesion control by inflation: implications from biology to artificial attachment device. Applied Physics A: Materials Science and Processing, 2014, 116, 567-573.	1.1	44
122	Arcus as a tensegrity structure in the arolium of wasps (Hymenoptera: Vespidae). Zoology, 2002, 105, 225-237.	0.6	42
123	Mechanical properties of the endophytic ovipositor in damselflies (Zygoptera, Odonata) and their oviposition substrates. Zoology, 2007, 110, 167-175.	0.6	42
124	Resilin-bearing wing vein joints in the dragonfly <i>Epiophlebia superstes</i> . Bioinspiration and Biomimetics, 2011, 6, 046006.	1.5	42
125	Adhesion tilt-tolerance in bio-inspired mushroom-shaped adhesive microstructure. Applied Physics Letters, 2014, 104, 011906.	1.5	41
126	A comparative study of the effects of vein-joints on the mechanical behaviour of insect wings: I. Single joints. Bioinspiration and Biomimetics, 2015, 10, 056003.	1.5	41

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127	Leaf beetle attachment on wrinkles: isotropic friction on anisotropic surfaces. <i>Journal of Experimental Biology</i> , 2012, 215, 1975-1982.	0.8	40
128	Reduction of female copulatory damage by resilin represents evidence for tolerance in sexual conflict. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141107.	1.5	40
129	The whole is more than the sum of all its parts: collective effect of spider attachment organs. <i>Journal of Experimental Biology</i> , 2014, 217, 222-224.	0.8	38
130	Mechanism of the wing colouration in the dragonfly <i>Zenithoptera lanei</i> (Odonata: Libellulidae) and its role in intraspecific communication. <i>Journal of Insect Physiology</i> , 2015, 81, 129-136.	0.9	38
131	Effects of seed aggregation on the removal rates of elaiosome-bearing <i>Chelidonium majus</i> and <i>Viola odourata</i> seeds carried by <i>Formica polyctena</i> ants. <i>Ecological Research</i> , 2000, 15, 187-192.	0.7	37
132	Direct observation of microcavitation in underwater adhesion of mushroom-shaped adhesive microstructure. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 903-909.	1.5	37
133	Honey bee hairs and pollenkitt are essential for pollen capture and removal. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 026015.	1.5	37
134	Surface topography and contact mechanics of dry and wet human skin. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1341-1348.	1.5	36
135	Enhanced Locomotion Efficiency of a Bio-inspired Walking Robot using Contact Surfaces with Frictional Anisotropy. <i>Scientific Reports</i> , 2016, 6, 39455.	1.6	36
136	A comparative study of the effects of constructional elements on the mechanical behaviour of dragonfly wings. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	36
137	How does a slender tibia resist buckling? The effect of material, structural and geometric characteristics on the buckling behaviour of the hindleg tibia in the postembryonic development of the stick insect <i>Carausius morosus</i> . <i>Journal of Experimental Biology</i> , 2017, 221, .	0.8	36
138	Holding tight on feathers - structural specializations and attachment properties of the avian ectoparasite <i>Crataerina pallida</i> (Diptera, Hippoboscidae). <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	36
139	Biomechanical Strategies Underlying the Robust Body Armour of an Aposematic Weevil. <i>Frontiers in Physiology</i> , 2018, 9, 1410.	1.3	36
140	Wing-locking mechanisms in aquatic Heteroptera. <i>Journal of Morphology</i> , 2003, 257, 127-146.	0.6	35
141	Composition and substrate-dependent strength of the silken attachment discs in spiders. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140477.	1.5	35
142	Attachment ability of the polyphagous bug <i>Nezara viridula</i> (Heteroptera: Pentatomidae) to different host plant surfaces. <i>Scientific Reports</i> , 2018, 8, 10975.	1.6	35
143	Landing on branches in the frog <i>Trachycephalus resinifictrix</i> (Anura: Hylidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2016, 202, 267-276.	0.7	34
144	Slipping vs sticking: Water-dependent adhesive and frictional properties of <i>Linum usitatissimum</i> L. seed mucilaginous envelope and its biological significance. <i>Acta Biomaterialia</i> , 2015, 17, 152-159.	4.1	33

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145	Mechanical properties of a single gecko seta. <i>International Journal of Materials Research</i> , 2008, 99, 1113-1118.	0.1	32
146	Tarsal morphology and attachment ability of the codling moth <i>Cydia pomonella</i> L. (Lepidoptera). <i>Tj ETQq0 0 0 rgBT /Overlock</i> , 10 Tf 50 7	0.9	32
147	An Experimental and Numerical Study of <i>Calliphora</i> Wing Structure. <i>Experimental Mechanics</i> , 2010, 50, 1183-1197.	1.1	32
148	Comparative study of the fluid viscosity in tarsal hairy attachment systems of flies and beetles. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140752.	1.5	32
149	Interlocking-based attachment during locomotion in the beetle <i>Pachnoda marginata</i> (Coleoptera). <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.6	32
150	Effects of multiple vein microjoints on the mechanical behaviour of dragonfly wings: numerical modelling. <i>Royal Society Open Science</i> , 2016, 3, 150610.	1.1	32
151	Attachment ability of the southern green stink bug <i>Nezara viridula</i> (Heteroptera: Pentatomidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 601-611.	0.7	32
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