

## List of Publications by Citations

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494  
papers

15,811  
citations

63  
h-index

108  
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548  
ext. papers

18,569  
ext. citations

4.1  
avg, IF

7.21  
L-index

#	Paper	IF	Citations
494	From micro to nano contacts in biological attachment devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 10603-6	11.5	849
493	Evidence for capillarity contributions to gecko adhesion from single spatula nanomechanical measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 16293-6	11.5	510
492	Mechanics of hierarchical adhesion structures of geckos. <i>Mechanics of Materials</i> , <b>2005</b> , 37, 275-285	3.3	502
491	Biomimetic mushroom-shaped fibrillar adhesive microstructure. <i>Journal of the Royal Society Interface</i> , <b>2007</b> , 4, 271-5	4.1	383
490	Ultrastructure of attachment specializations of hexapods (Arthropoda): evolutionary patterns inferred from a revised ordinal phylogeny. <i>Journal of Zoological Systematics and Evolutionary Research</i> , <b>2001</b> , 39, 177-207	1.9	340
489	The effect of surface roughness on the adhesion of elastic plates with application to biological systems. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 11437-11444	3.9	327
488	Fabrication of Macroscopically Flexible and Highly Porous 3D Semiconductor Networks from Interpenetrating Nanostructures by a Simple Flame Transport Approach. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 775-783	3.1	240
487	Roughness-dependent friction force of the tarsal claw system in the beetle <i>Pachnoda marginata</i> (Coleoptera, Scarabaeidae). <i>Journal of Experimental Biology</i> , <b>2002</b> , 205, 2479-2488	3	235
486	Resolving the nanoscale adhesion of individual gecko spatulae by atomic force microscopy. <i>Biology Letters</i> , <b>2005</b> , 1, 2-4	3.6	221
485	Adhesion design maps for bio-inspired attachment systems. <i>Acta Biomaterialia</i> , <b>2005</b> , 1, 5-13	10.8	216
484	Origin of the superior adhesive performance of mushroom-shaped microstructured surfaces. <i>Soft Matter</i> , <b>2011</b> , 7, 5545	3.6	186
483	Roughness-dependent friction force of the tarsal claw system in the beetle <i>Pachnoda marginata</i> (Coleoptera, Scarabaeidae). <i>Journal of Experimental Biology</i> , <b>2002</b> , 205, 2479-88	3	180
482	Hexagonal Surface Micropattern for Dry and Wet Friction. <i>Advanced Materials</i> , <b>2009</b> , 21, 483-486	24	176
481	Influence of surface roughness on gecko adhesion. <i>Acta Biomaterialia</i> , <b>2007</b> , 3, 607-10	10.8	166
480	Evidence for a material gradient in the adhesive tarsal setae of the ladybird beetle <i>Coccinella septempunctata</i> . <i>Nature Communications</i> , <b>2013</b> , 4, 1661	17.4	165
479	Ultrastructural architecture and mechanical properties of attachment pads in <i>Tettigonia viridissima</i> (Orthoptera Tettigoniidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>2000</b> , 186, 821-31	2.3	161
478	Adhesion measured on the attachment pads of <i>Tettigonia viridissima</i> (Orthoptera, insecta). <i>Journal of Experimental Biology</i> , <b>2000</b> , 203, 1887-1895	3	158

477	Spatulate structures in biological fibrillar adhesion. <i>Soft Matter</i> , <b>2010</b> , 6, 3269	3.6	154
476	Biological attachment devices: exploring nature's diversity for biomimetics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2008</b> , 366, 1557-74	3	150
475	The function of resilin in beetle wings. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2000</b> , 267, 1375-81	4.4	144
474	Sexual dimorphism in the attachment ability of the Colorado potato beetle <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae) to rough substrates. <i>Journal of Insect Physiology</i> , <b>2008</b> , 54, 765-76	2.4	142
473	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. <i>Journal of Experimental Biology</i> , <b>2005</b> , 208, 4651-62	3	136
472	Detailed three-dimensional visualization of resilin in the exoskeleton of arthropods using confocal laser scanning microscopy. <i>Journal of Microscopy</i> , <b>2012</b> , 245, 1-16	1.9	130
471	Chemical composition of the attachment pad secretion of the locust <i>Locusta migratoria</i> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2002</b> , 32, 1605-13	4.5	128
470	Evolution of locomotory attachment pads of hexapods. <i>Die Naturwissenschaften</i> , <b>2001</b> , 88, 530-4	2	126
469	Adhesion measured on the attachment pads of <i>Tettigonia viridissima</i> (Orthoptera, insecta). <i>Journal of Experimental Biology</i> , <b>2000</b> , 203, 1887-95	3	122
468	Tarsal movements in flies during leg attachment and detachment on a smooth substrate. <i>Journal of Insect Physiology</i> , <b>2003</b> , 49, 611-20	2.4	121
467	Shearing of fibrillar adhesive microstructure: friction and shear-related changes in pull-off force. <i>Journal of the Royal Society Interface</i> , <b>2007</b> , 4, 721-5	4.1	116
466	Serial elastic elements in the damselfly wing: mobile vein joints contain resilin. <i>Die Naturwissenschaften</i> , <b>1999</b> , 86, 552-5	2	111
465	Biologically Inspired Mushroom-Shaped Adhesive Microstructures. <i>Annual Review of Materials Research</i> , <b>2014</b> , 44, 173-203	12.8	110
464	Emerging roots alter epidermal cell fate through mechanical and reactive oxygen species signaling. <i>Plant Cell</i> , <b>2012</b> , 24, 3296-306	11.6	109
463	Elastic joints in dermapteran hind wings: materials and wing folding. <i>Arthropod Structure and Development</i> , <b>2000</b> , 29, 137-46	1.8	108
462	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> , <b>2000</b> , 267, 1239-44	4.4	108
461	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> , <b>2004</b> , 271, 2209-15	4.4	107
460	Function of epidermal surfaces in the trapping efficiency of <i>Nepenthes alata</i> pitchers. <i>New Phytologist</i> , <b>2002</b> , 156, 479-489	9.8	107

459	Contact behaviour of tenent setae in attachment pads of the blowfly <i>Calliphora vicina</i> (Diptera, Calliphoridae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>2002</b> , 187, 961-70	2.3	106
458	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> , <b>2004</b> , 33, 103-11	1.8	105
457	Local mechanical properties of the head articulation cuticle in the beetle <i>Pachnoda marginata</i> (Coleoptera, Scarabaeidae). <i>Journal of Experimental Biology</i> , <b>2006</b> , 209, 722-30	3	103
456	Material structure, stiffness, and adhesion: why attachment pads of the grasshopper ( <i>Tettigonia viridissima</i> ) adhere more strongly than those of the locust ( <i>Locusta migratoria</i> ) (Insecta: Orthoptera). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>2006</b> , 192, 1223-32	2.3	101
455	Friction and adhesion in the tarsal and metatarsal scopulae of spiders. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>2006</b> , 192, 1223-32	2.3	99
454	Adhesion of echinoderm tube feet to rough surfaces. <i>Journal of Experimental Biology</i> , <b>2005</b> , 208, 2555-63		93
453	Scale effects on the attachment pads and friction forces in syrphid flies (Diptera, Syrphidae). <i>Journal of Experimental Biology</i> , <b>2001</b> , 204, 1421-1431	3	92
452	Hierarchical self-entangled carbon nanotube tube networks. <i>Nature Communications</i> , <b>2017</b> , 8, 1215	17.4	91
451	Microbial colonization and degradation of polyethylene and biodegradable plastic bags in temperate fine-grained organic-rich marine sediments. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 103, 168-178	6.7	87
450	Remote Control over Underwater Dynamic Attachment/Detachment and Locomotion. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801595	24	87
449	A beetle-inspired solution for underwater adhesion. <i>Journal of the Royal Society Interface</i> , <b>2008</b> , 5, 383-54.1		85
448	Wing Coupling in Bees and Wasps: From the Underlying Science to Bioinspired Engineering (Adv. Sci. 16/2021). <i>Advanced Science</i> , <b>2021</b> , 8, 2170099	13.6	78
447	Plant surfaceBug interactions: <i>Dicyphus errans</i> stalking along trichomes. <i>Arthropod-Plant Interactions</i> , <b>2007</b> , 1, 221-243	2.2	77
446	Close-up of mushroom-shaped fibrillar adhesive microstructure: contact element behaviour. <i>Journal of the Royal Society Interface</i> , <b>2008</b> , 5, 785-9	4.1	76
445	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> , <b>2009</b> , 195, 311-8	2.3	75
444	Bioinspired photocontrollable microstructured transport device. <i>Science Robotics</i> , <b>2017</b> , 2,	18.6	73
443	Epidermis architecture and material properties of the skin of four snake species. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 3140-55	4.1	72
442	Scale effects on the attachment pads and friction forces in syrphid flies (Diptera, Syrphidae). <i>Journal of Experimental Biology</i> , <b>2001</b> , 204, 1421-31	3	71

441	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> , <b>2004</b> , 207, 2947-63	3	69
440	Anisotropic Friction of the Ventral Scales in the Snake <i>Lampropeltis getula californica</i> . <i>Tribology Letters</i> , <b>2014</b> , 54, 139-150	2.8	67
439	Elastic modulus of tree frog adhesive toe pads. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>2011</b> , 197, 969-78	2.3	67
438	Slippery pores: anti-adhesive effect of nanoporous substrates on the beetle attachment system. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 1571-9	4.1	67
437	Elastic deformation and energy loss of flapping fly wings. <i>Journal of Experimental Biology</i> , <b>2011</b> , 214, 2949-61	3	66
436	Ultrastructure of dragonfly wing veins: composite structure of fibrous material supplemented by resilin. <i>Journal of Anatomy</i> , <b>2015</b> , 227, 561-82	2.9	65
435	Surface roughness effects on attachment ability of the spider <i>Philodromus dispar</i> (Araneae, Philodromidae). <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 179-84	3	65
434	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> , <b>2004</b> , 33, 77-89	1.8	65
433	Seed Dispersal by Ants in a Deciduous Forest Ecosystem <b>2003</b> ,		65
432	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> , <b>2010</b> , 196, 659-68	2.3	63
431	Humidity-enhanced wet adhesion on insect-inspired fibrillar adhesive pads. <i>Nature Communications</i> , <b>2015</b> , 6, 6621	17.4	62
430	Adhesion failure at 180,000 frames per second: direct observation of the detachment process of a mushroom-shaped adhesive. <i>Physical Review Letters</i> , <b>2013</b> , 111, 104301	7.4	62
429	Shear induced adhesion: contact mechanics of biological spatula-like attachment devices. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 276, 126-31	2.3	62
428	Spider's super-glue: thread anchors are composite adhesives with synergistic hierarchical organization. <i>Soft Matter</i> , <b>2015</b> , 11, 2394-403	3.6	61
427	Spring model of biological attachment pads. <i>Journal of Theoretical Biology</i> , <b>2006</b> , 243, 48-53	2.3	61
426	Design of insect unguis tractor apparatus. <i>Journal of Morphology</i> , <b>1996</b> , 230, 219-230	1.6	61
425	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> , <b>2009</b> , 130, 222-228	2.1	60
424	Microsculpture of the wing surface in Odonata: evidence for cuticular wax covering. <i>Arthropod Structure and Development</i> , <b>2000</b> , 29, 129-35	1.8	60

423	A multiscale study on the structural and mechanical properties of the luffa sponge from <i>Luffa cylindrica</i> plant. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 1332-9	2.9	57
422	Evolution of locomotory attachment pads in the Dermaptera (Insecta). <i>Arthropod Structure and Development</i> , <b>2004</b> , 33, 45-66	1.8	57
421	Functional diversity of resilin in Arthropoda. <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 1241-1259	3	56
420	Suction component in adhesion of mushroom-shaped microstructure. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 585-9	4.1	54
419	Tools for crushing diatoms--opal teeth in copepods feature a rubber-like bearing composed of resilin. <i>Scientific Reports</i> , <b>2012</b> , 2, 465	4.9	54
418	Uncovering Insect Stickiness: Structure and Properties of Hairy Attachment Devices. <i>American Entomologist</i> , <b>2005</b> , 51, 31-35	0.6	54
417	Towards a micromechanical understanding of biological surface devices. <i>International Journal of Materials Research</i> , <b>2002</b> , 93, 345-351		52
416	Exploring Biological Surfaces by Nanoindentation. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 880-887	2.5	51
415	Wet versus dry adhesion of biomimetic mushroom-shaped microstructures. <i>Soft Matter</i> , <b>2012</b> , 8, 7560	3.6	50
414	Biomaterials: silk-like secretion from tarantula feet. <i>Nature</i> , <b>2006</b> , 443, 407	50.4	50
413	The jumping mechanism of cicada <i>Cercopis vulnerata</i> (Auchenorrhyncha, Cercopidae): skeleton-muscle organisation, frictional surfaces, and inverse-kinematic model of leg movements. <i>Arthropod Structure and Development</i> , <b>2004</b> , 33, 201-20	1.8	50
412	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> , <b>2015</b> , 5, 20140036	3.9	49
411	Attachment force of the beetle <i>Cryptolaemus montrouzieri</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> , <b>2008</b> , 2, 247-259	2.2	49
410	Contact Mechanics and Friction on Dry and Wet Human Skin. <i>Tribology Letters</i> , <b>2013</b> , 50, 17-30	2.8	46
409	Underwater locomotion in a terrestrial beetle: combination of surface de-wetting and capillary forces. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 4236-42	4.4	46
408	Physicochemical properties of functional surfaces in pitchers of the carnivorous plant <i>Nepenthes alata</i> Blanco (Nepenthaceae). <i>Plant Biology</i> , <b>2006</b> , 8, 841-8	3.7	46
407	Ontogenesis of the attachment ability in the bug <i>Coreus marginatus</i> (Heteroptera, Insecta). <i>Journal of Experimental Biology</i> , <b>2004</b> , 207, 2917-24	3	46
406	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> , <b>2016</b> , 18, 7114-23	3.6	45

405	Friction behavior of a microstructured polymer surface inspired by snake skin. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 83-97	3	45
404	The influence of humidity on the attachment ability of the spider <i>Philodromus dispar</i> (Araneae, Philodromidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 139-43	4.4	45
403	Evolutionary scenarios for unusual attachment devices of Phasmatodea and Mantophasmatodea (Insecta). <i>Systematic Entomology</i> , <b>2008</b> , 33, 501-510	3.4	45
402	Frictional-anisotropy-based systems in biology: structural diversity and numerical model. <i>Scientific Reports</i> , <b>2013</b> , 3, 1240	4.9	45
401	Terminal contact elements of insect attachment devices studied by transmission X-ray microscopy. <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 1958-63	3	44
400	The synergy between the insect-inspired claws and adhesive pads increases the attachment ability on various rough surfaces. <i>Scientific Reports</i> , <b>2016</b> , 6, 26219	4.9	44
399	Dry friction of microstructured polymer surfaces inspired by snake skin. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1091-103	3	43
398	Geometry-controlled adhesion: revisiting the contact splitting hypothesis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 103, 933-938	2.6	43
397	Visualisation of Native Surfaces by Two-Step Molding. <i>Microscopy Today</i> , <b>2007</b> , 15, 44-47	0.4	43
396	Insect walking techniques on thin stems. <i>Arthropod-Plant Interactions</i> , <b>2007</b> , 1, 77-91	2.2	43
395	Adhesive and frictional properties of tarsal attachment pads in two species of stick insects (Phasmatodea) with smooth and nubby euplantulae. <i>Zoology</i> , <b>2012</b> , 115, 135-41	1.7	42
394	Fibrillar adhesion with no clusterisation: Functional significance of material gradient along adhesive setae of insects. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 837-45	3	42
393	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> , <b>2013</b> , 10, 20130409	4.1	42
392	Smooth Attachment Devices in Insects: Functional Morphology and Biomechanics. <i>Advances in Insect Physiology</i> , <b>2007</b> , 81-115	2.5	42
391	Visual Cues in Mate Recognition by Males of the Damselfly, <i>Coenagrion puella</i> (L.) (Odonata: Coenagrionidae). <i>Journal of Insect Behavior</i> , <b>1998</b> , 11, 73-92	1.1	41
390	Surface roughness rather than surface chemistry essentially affects insect adhesion. <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 1471-1479	3	40
389	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> , <b>2008</b> , 211, 2647-57	3	39
388	Arcus as a tensegrity structure in the arolium of wasps (Hymenoptera: Vespidae). <i>Zoology</i> , <b>2002</b> , 105, 225-37	1.7	39

387	Resilin microjoints: a smart design strategy to avoid failure in dragonfly wings. <i>Scientific Reports</i> , <b>2016</b> , 6, 39039	4.9	39
386	Adhesion control by inflation: implications from biology to artificial attachment device. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 116, 567-573	2.6	37
385	Dragonfly wing nodus: A one-way hinge contributing to the asymmetric wing deformation. <i>Acta Biomaterialia</i> , <b>2017</b> , 60, 330-338	10.8	37
384	Force transformation in spider strain sensors: white light interferometry. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 1254-64	4.1	37
383	Anti-adhesive effects of plant wax coverage on insect attachment. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 5323-5337	7	36
382	Egg attachment of the asparagus beetle <i>Crioceris asparagi</i> to the crystalline waxy surface of <i>Asparagus officinalis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2010</b> , 277, 895-903	4.4	36
381	Mechanical properties of the endophytic ovipositor in damselflies (Zygoptera, Odonata) and their oviposition substrates. <i>Zoology</i> , <b>2007</b> , 110, 167-75	1.7	36
380	Effect of microstructure on the mechanical and damping behaviour of dragonfly wing veins. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160006	3.3	36
379	The Evolution of Tarsal Adhesive Microstructures in Stick and Leaf Insects (Phasmatodea). <i>Frontiers in Ecology and Evolution</i> , <b>2018</b> , 6,	3.7	35
378	The whole is more than the sum of all its parts: collective effect of spider attachment organs. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 222-4	3	35
377	Generation of bioinspired structural colors via two-photon polymerization. <i>Scientific Reports</i> , <b>2017</b> , 7, 17622	4.9	35
376	Radial arrangement of Janus-like setae permits friction control in spiders. <i>Scientific Reports</i> , <b>2013</b> , 3, 1101	4.9	35
375	Resilin-bearing wing vein joints in the dragonfly <i>Epiophlebia superstes</i> . <i>Bioinspiration and Biomimetics</i> , <b>2011</b> , 6, 046006	2.6	35
374	Hairy suckers: the surface microstructure and its possible functional significance in the Octopus vulgaris sucker. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 561-5	3	33
373	Adhesion tilt-tolerance in bio-inspired mushroom-shaped adhesive microstructure. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 011906	3.4	33
372	A comparative study of the effects of vein-joints on the mechanical behaviour of insect wings: I. Single joints. <i>Bioinspiration and Biomimetics</i> , <b>2015</b> , 10, 056003	2.6	32
371	Inversion of friction anisotropy in a bio-inspired asymmetrically structured surface. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	32
370	Visualization of Wave Propagation and Fine Structure in Frictional Motion of Unconstrained Soft Microstructured Tapes. <i>Tribology Letters</i> , <b>2017</b> , 65, 1	2.8	32



369	Composition and substrate-dependent strength of the silken attachment discs in spiders. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140477	4.1	31
368	Direct observation of microcavitation in underwater adhesion of mushroom-shaped adhesive microstructure. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 903-9	3	30
367	Leaf beetle attachment on wrinkles: isotropic friction on anisotropic surfaces. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 1975-82	3	30
366	Wing-locking mechanisms in aquatic Heteroptera. <i>Journal of Morphology</i> , <b>2003</b> , 257, 127-46	1.6	30
365	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> , <b>2000</b> , 15, 187-192	1.9	30
364	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> , <b>2015</b> , 81, 129-36	2.4	29
363	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> , <b>2016</b> , 122, 1	2.6	29
362	Tarsal morphology and attachment ability of the codling moth <i>Cydia pomonella</i> L. (Lepidoptera, Tortricidae) to smooth surfaces. <i>Journal of Insect Physiology</i> , <b>2009</b> , 55, 1029-38	2.4	29
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227	Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. <i>Small</i> , <b>2019</b> , 15, e1802931	11	10
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