Alexander Blanke

List of Publications by Year in Descending Order

34 papers	1,989 citations	13 h-index	41 g-index
41 ext. papers	2,512 ext. citations	5 avg, IF	4.14 L-index

#	Paper	IF	Citations
34	Suspension feeders: diversity, principles of particle separation and biomimetic potential.. *Journal of the Royal Society Interface*, **2022**, 19, 20210741	4.1	1
33	A previously unknown feeding mode in millipedes and the convergence of fluid feeding across arthropods.. *Science Advances*, **2022**, 8, eabm0577	14.3	1
32	Ultra high-resolution biomechanics suggest that substructures within insect mechanosensors decisively affect their sensitivity.. *Journal of the Royal Society Interface*, **2022**, 19, 20220102	4.1	1
31	Juvenile ecology drives adult morphology in two insect orders. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20210616	4.4	1
30	Location and arrangement of campaniform sensilla in Drosophila melanogaster. *Journal of Comparative Neurology*, **2021**, 529, 905-925	3.4	11
29	First steps toward suctorial feeding in millipedes: Comparative morphology of the head of the Platydesmida (Diplopoda: Colobognatha). *Invertebrate Biology*, **2021**, 140, e12312	1	2
28	Neuromodulation Can Be Simple: Myoinhibitory Peptide, Contained in Dedicated Regulatory Pathways, Is the Only Neurally-Mediated Peptide Modulator of Stick Insect Leg Muscle. *Journal of Neuroscience*, **2021**, 41, 2911-2929	6.6	1
27	Four myriapod relatives - but who are sisters? No end to debates on relationships among the four major myriapod subgroups. *BMC Evolutionary Biology*, **2020**, 20, 144	3	10
26	The loss of flight in ant workers enabled an evolutionary redesign of the thorax for ground labour. *Frontiers in Zoology*, **2020**, 17, 33	2.8	8
25	The Early Evolution of Biting□Chewing Performance in Hexapoda. *Zoological Monographs*, **2019**, 175-202	0.9	5
24	A biomechanical analysis of prognathous and orthognathous insect head capsules: evidence for a many-to-one mapping of form to function. *Journal of Evolutionary Biology*, **2018**, 31, 665-674	2.3	4
23	A Dipteran□s Novel Sucker Punch: Evolution of Arthropod Atypical Venom with a Neurotoxic Component in Robber Flies (Asilidae, Diptera). *Toxins*, **2018**, 10,	4.9	22
22	Reanalyzing the Palaeoptera problem - The origin of insect flight remains obscure. *Arthropod Structure and Development*, **2018**, 47, 328-338	1.8	29
21	A biological switching valve evolved in the female of a sex-role reversed cave insect to receive multiple seminal packages. *ELife*, **2018**, 7,	8.9	6
20	Analysis of modularity and integration suggests evolution of dragonfly wing venation mainly in response to functional demands. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	13
19	Computational biomechanics changes our view on insect head evolution. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	13
18	Form-function relationships in dragonfly mandibles under an evolutionary perspective. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	9

17	Evolutionary ecology of beta-lactam gene clusters in animals. *Molecular Ecology*, **2017**, 26, 3217-3229	5.7	16
16	The NOVA project: maximizing beam time efficiency through synergistic analyses of SR CT data **2017**,		1
15	Age-dependent male mating tactics in a spider mite-A life-history perspective. *Ecology and Evolution*, **2016**, 6, 7367-7374	2.8	4
14	The homology of cephalic muscles and endoskeletal elements between Diplura and Ectognatha (Insecta). *Organisms Diversity and Evolution*, **2016**, 16, 241-257	1.7	4
13	Musculoskeletal modelling of the dragonfly mandible system as an aid to understanding the role of single muscles in an evolutionary context. *Journal of Experimental Biology*, **2016**, 219, 1041-9	3	13
12	Musculoskeletal modelling under an evolutionary perspective: deciphering the role of single muscle regions in closely related insects. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	10
11	Structural mouthpart interaction evolved already in the earliest lineages of insects. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20151033	4.4	11
10	Mandibles with two joints evolved much earlier in the history of insects: dicondyly is a synapomorphy of bristletails, silverfish and winged insects. *Systematic Entomology*, **2015**, 40, 357-364	3.4	18
9	Coding characters from different life stages for phylogenetic reconstruction: a case study on dragonfly adults and larvae, including a description of the larval head anatomy ofEpiophlebia superstes(Odonata: Epiophlebiidae). *Zoological Journal of the Linnean Society*, **2015**, 174, 718-732	2.4	13
8	Revival of forgotten characters and modern imaging techniques help to produce a robust phylogeny of the Diplopoda (Arthropoda, Myriapoda). *Arthropod Structure and Development*, **2014**, 43, 63-75	1.8	40
7	Phylogenomics resolves the timing and pattern of insect evolution. *Science*, **2014**, 346, 763-7	33.3	1489
6	The first venomous crustacean revealed by transcriptomics and functional morphology: remipede venom glands express a unique toxin cocktail dominated by enzymes and a neurotoxin. *Molecular Biology and Evolution*, **2014**, 31, 48-58	8.3	70
5	Head morphology of Tricholepidion gertschi indicates monophyletic Zygentoma. *Frontiers in Zoology*, **2014**, 11, 16	2.8	23
4	The identification of concerted convergence in insect heads corroborates palaeoptera. *Systematic Biology*, **2013**, 62, 250-63	8.4	25
3	The head anatomy of Epiophlebia superstes (Odonata: Epiophlebiidae). *Organisms Diversity and Evolution*, **2013**, 13, 55-66	1.7	16
2	An updated phylogeny of Anisoptera including formal convergence analysis of morphological characters. *Systematic Entomology*, **2013**, 38, 474-490	3.4	31
1	Revival of Palaeoptera-head characters support a monophyletic origin of Odonata and Ephemeroptera (Insecta). *Cladistics*, **2012**, 28, 560-581	3.5	63