

# Stefan Richter

## List of Publications by Year in descending order

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95  
papers

3,000  
citations

159585

30  
h-index

189892

50  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Invertebrate neurophylogeny: suggested terms and definitions for a neuroanatomical glossary. <i>Frontiers in Zoology</i> , 2010, 7, 29.	2.0	281
2	Finding Our Way through Phenotypes. <i>PLoS Biology</i> , 2015, 13, e1002033.	5.6	178
3	Phylogenetic systematics of the reptantian Decapoda (Crustacea, Malacostraca). <i>Zoological Journal of the Linnean Society</i> , 1995, 113, 289-328.	2.3	164
4	The Tetraconata concept: hexapod-crustacean relationships and the phylogeny of Crustacea. <i>Organisms Diversity and Evolution</i> , 2002, 2, 217-237.	1.6	164
5	Phylogeny of Branchiopoda (Crustacea) based on a combined analysis of morphological data and six molecular loci. <i>Cladistics</i> , 2007, 23, 301-336.	3.3	103
6	The compound eye of <i>Scutigera coleoptrata</i> (Linnaeus, 1758) (Chilopoda: Notostigmophora): an ultrastructural reinvestigation that adds support to the Mandibulata concept. <i>Zoomorphology</i> , 2003, 122, 191-209.	0.8	95
7	Phylogenetic systematics of the reptantian Decapoda (Crustacea, Malacostraca). <i>Zoological Journal of the Linnean Society</i> , 1995, 113, 289-328.	2.3	82
8	Tetraconatan phylogeny with special focus on Malacostraca and Branchiopoda: highlighting the strength of taxon-specific matrices in phylogenomics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181524.	2.6	80
9	Phylogenetic relationships within the Phyllopoda (Crustacea, Branchiopoda) based on mitochondrial and nuclear markers. <i>Molecular Phylogenetics and Evolution</i> , 2002, 25, 229-244.	2.7	78
10	Evolutionary morphology of the circulatory system in Peracarida (Malacostraca; Crustacea). <i>Cladistics</i> , 2010, 26, 143-167.	3.3	71
11	A research program for Evolutionary Morphology. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2014, 52, 338-350.	1.4	70
12	Phylogenetic analysis of the Brachyura (Crustacea, Decapoda) based on characters of the foregut with establishment of a new taxon. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2007, 45, 20-32.	1.4	63
13	Morphology of the brain in <i>Hutchinsoniella macracantha</i> (Cephalocarida, Crustacea). <i>Arthropod Structure and Development</i> , 2011, 40, 221-243.	1.4	54
14	Phylogeny of Spinicaudata (Branchiopoda, Crustacea) based on three molecular markers – An Australian origin for Limnadopsis. <i>Molecular Phylogenetics and Evolution</i> , 2009, 53, 716-725.	2.7	51
15	<i>Cyclestheria hislopi</i> (Crustacea: Branchiopoda): A group of morphologically cryptic species with origins in the Cretaceous. <i>Molecular Phylogenetics and Evolution</i> , 2013, 66, 800-810.	2.7	50
16	The formation of the nervous system during larval development in <i>Triops cancriformis</i> (Bosc) (Crustacea, Branchiopoda): An immunohistochemical survey. <i>Journal of Morphology</i> , 2010, 271, 1457-1481.	1.2	47
17	Improvement of microanatomical research by combining corrosion casts with MicroCT and 3D reconstruction, exemplified in the circulatory organs of the woodlouse. <i>Microscopy Research and Technique</i> , 2004, 64, 250-254.	2.2	45
18	An integrative approach to species delineation incorporating different species concepts: a case study of <i>Limnadopsis</i> (Branchiopoda: Spinicaudata). <i>Biological Journal of the Linnean Society</i> , 2011, 104, 575-599.	1.6	44

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19	Architecture of the nervous system in mystacocarida (Arthropoda, crustacea)â€”An immunohistochemical study and 3D reconstruction. <i>Journal of Morphology</i> , 2010, 271, 169-189.	1.2	42
20	Phoretic Association Between the Dauerjuveniles of <i>Rhabditis Stammeri</i> (Rhabditidae) and Life History Stages of the Burying Beetle <i>Nicrophorus Vespilloides</i> (Coleoptera: Silphidae). <i>Nematologica</i> , 1993, 39, 346-355.	0.2	41
21	The lacinia mobilis and Similar Structures â€” a Valuable Character in Arthropod Phylogenetics?. <i>Zoologischer Anzeiger</i> , 2002, 241, 339-361.	0.9	41
22	On the ontogeny of <i>Leptodora kindtii</i> (Crustacea, Branchiopoda, Cladocera), with notes on the phylogeny of the Cladocera. <i>Journal of Morphology</i> , 2003, 256, 235-259.	1.2	39
23	Homologies in phylogenetic analysesâ€”concept and tests. <i>Theory in Biosciences</i> , 2005, 124, 105-120.	1.4	39
24	The foregut-ossicle system of <i>Dromia wilsoni</i> , <i>Dromia personata</i> and <i>Lauridromia intermedia</i> (Decapoda, Brachyura, Dromiidae), studied with a new staining method. <i>Arthropod Structure and Development</i> , 2002, 30, 329-338.	1.4	37
25	Flying with the birds? Recent largeâ€”area dispersal of four Australian <i>Limnadopsis</i> species (Crustacea: Branchiopoda: Spinicaudata). <i>Ecology and Evolution</i> , 2012, 2, 1605-1626.	1.9	36
26	The nervous system of <i>Leptodora kindtii</i> (Branchiopoda, Cladocera) surveyed with Confocal Scanning Microscopy (CLSM), including general remarks on the branchiopod neuromorphological ground pattern. <i>Arthropod Structure and Development</i> , 2007, 36, 143-156.	1.4	34
27	The brain in three crustaceans from cavernous darkness. <i>BMC Neuroscience</i> , 2015, 16, 19.	1.9	34
28	Homology and synapomorphyâ€”symplesiomorphyâ€”neither synonymous nor equivalent but different perspectives on the same phenomenon. <i>Cladistics</i> , 2017, 33, 540-544.	3.3	33
29	Title is missing!. <i>Hydrobiologia</i> , 2002, 486, 239-247.	2.0	30
30	A comparison of the mandibular gnathal edges in branchiopod crustaceans: implications for the phylogenetic position of the Laevicaudata. <i>Zoomorphology</i> , 2004, 123, 31-44.	0.8	30
31	Onychocaudata (Branchiopoda: Diplostraca), a new high-level taxon in branchiopod systematics. <i>Journal of Crustacean Biology</i> , 2013, 33, 62-65.	0.8	28
32	Phylogeny of the Anomala (Crustacea, Decapoda, Reptantia) based on the ossicles of the foregut. <i>Zoologischer Anzeiger</i> , 2011, 250, 316-342.	0.9	27
33	Nervous system development in Spinicaudata and Cycletherida (Crustacea, Branchiopoda)â€”comparing two different modes of indirect development by using an event pairing approach. <i>Journal of Morphology</i> , 2012, 273, 672-695.	1.2	27
34	Evolutionary systematics of the Australian <i>Eocyclus</i> fauna (Crustacea: Branchiopoda:) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50 147</i> <i>Systematics and Evolutionary Research</i> , 2014, 52, 15-31.	1.4	27
35	A list of the Recent clam shrimps (Crustacea: Laevicaudata, Spinicaudata, Cycletherida) of Australia, including a description of a new species of <i>Eocyclus</i> . <i>Records of the Australian Museum</i> , 2005, 57, 341-354.	0.2	27
36	Evolutionary morphology of the hemolymph vascular system in hermit and king crabs (Crustacea:) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	1.2	26

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37	Evolutionary morphology of the organ systems in squat lobsters and porcelain crabs (Crustacea: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.2	25
38	Evolutionary systematics of the Australian Cyzicidae (Crustacea, Branchiopoda, Spinicaudata) with the description of a new genus. Zoological Journal of the Linnean Society, 2015, 173, 271-295.	2.3	24
39	Symmetry variation in the heart&#x2013;descending artery system of the parthenogenetic marbled crayfish. Journal of Morphology, 2009, 270, 221-226.	1.2	23
40	The development of the nervous system in Laevicaudata (Crustacea, Branchiopoda): insights into the evolution and homologies of branchiopod limbs and &#x201c;frontal organs&#x201d;. Zoomorphology, 2013, 132, 163-181.	0.8	23
41	Unraveling the origin of Cladocera by identifying heterochrony in the developmental sequences of Branchiopoda. Frontiers in Zoology, 2013, 10, 35.	2.0	22
42	Spinicaudata (Branchiopoda: Diplostraca) in Australia&#x2013;s arid zone: unparalleled diversity at regional scales and within water bodies. Journal of Crustacean Biology, 2015, 35, 366-378.	0.8	22
43	The circulatory system in Mysidacea&#x2013;Implications for the phylogenetic position of Lophogastrida and Mysida (Malacostraca, Crustacea). Journal of Morphology, 2007, 268, 311-328.	1.2	21
44	Myogenesis of Malacostraca &#x201c; the &#x201e;egg-nauplius&#x201c;-concept revisited. Frontiers in Zoology, 2013, 10, 76.	2.0	21
45	Muscle development in the marbled crayfish&#x2013;insights from an emerging model organism (Crustacea.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.9	20
46	One hundred years of carcinization &#x201c; the evolution of the crab-like habitus in Anomura (Arthropoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	20
47	Description of four new species of Limnadopsis from Australia (Crustacea: Branchiopoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.5	19
48	The ventral nerve cord in Cephalocarida (Crustacea): New insights into the ground pattern of Tetraconata. Journal of Morphology, 2014, 275, 269-294.	1.2	19
49	The Phylogenetic Relationships of &#x201c;Predatory Water-Fleas&#x201c;(Cladocera: Onychopoda, Haplopoda) Inferred from 12S rDNA. Molecular Phylogenetics and Evolution, 2001, 19, 105-113.	2.7	18
50	Homologies in phylogenetic analyses &#x201c; concept and tests. Theory in Biosciences, 2005, 124, 105-120.	1.4	18
51	Morphological diversity of setae on the grooming legs in Anomala (Decapoda: Reptantia) revealed by scanning electron microscopy. Zoologischer Anzeiger, 2011, 250, 343-366.	0.9	18
52	The fate of the onychophoran antenna. Development Genes and Evolution, 2013, 223, 247-251.	0.9	17
53	Comparative analysis of the circulatory system in Amphipoda (Malacostraca, Crustacea). Acta Zoologica, 2007, 88, 159-171.	0.8	16
54	The circulatory system in Phreatoicidea: implications for the isopod ground pattern and peracarid phylogeny. Arthropod Structure and Development, 2003, 32, 337-347.	1.4	14

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55	The larval development of an Australian limnadiid clam shrimp (Crustacea, Branchiopoda,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.9	14
56	The word is not enough: on morphemes, characters and ontological concepts. Cladistics, 2016, 32, 682-690.	3.3	14
57	FIRST RECORD OF LIMNADIA LENTICULARIS MALES IN EUROPE (BRANCHIOPODA: CONCHOSTRACA). Journal of Crustacean Biology, 2000, 20, 657-662.	0.8	13
58	Evolution of eumalacostracan developmentâ€™ new insights into loss and reacquisition of larval stages revealed by heterochrony analysis. EvoDevo, 2015, 6, 4.	3.2	13
59	The first organ-based free ontology for arthropods (Ontology of Arthropod Circulatory Systems -) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Systematic Biology, 2017, 66, syw108.	5.6	13
60	The circulatory system and its spatial relations to other major organ systems in Spelaeogriphacea and Mictacea (Malacostraca, Crustacea) - a three-dimensional analysis. Zoological Journal of the Linnean Society, 2007, 149, 629-642.	2.3	12
61	The nauplius eye complex in â€™conchostracansâ€™™(Crustacea, Branchiopoda: Laevicaudata, Spinicaudata,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 408-419.	1.4	12
62	Development of the nervous system in Cephalocarida (Crustacea): early neuronal differentiation and successive patterning. Zoomorphology, 2015, 134, 183-209.	0.8	12
63	Morphology of the haemolymph vascular system in Tanaidacea and Cumacea: â€™ Implications for the relationships of â€™core groupâ€™Peracarida (Malacostraca; Crustacea). Arthropod Structure and Development, 2008, 37, 141-154.	1.4	11
64	The Clam Shrimp Eocycticus (Branchiopoda: Spinicaudata: Cyzicidae) in Australia. Journal of Crustacean Biology, 2009, 29, 245-253.	0.8	11
65	Male claspers in clam shrimps (Crustacea, Branchiopoda) in the light of evolution: A case study on homology versus analogy. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2014, 322, 269-280.	1.3	11
66	The mouth apparatus of <i><sc>L</sc>ithodes maja</i> (<sc>C</sc>rustacea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (<sc>P</sc>eracarida) Journal of Crustacean Biology, 2015, 35, 1-11.	0.8	11
67	The mouthparts of two lophogastrids, Chalaraspidum alatum and Pseudochalaraspidum hanseni (Lophogastrida, Peracarida, Malacostraca), including some remarks on the monophyly of the Lophogastrida. Journal of Natural History, 2003, 37, 2773-2786.	0.5	10
68	The Mandibles of a Halocyprid Ostracode (Halocypridina: Halocypridae) â€™ a New Record of Mandibular Gnathal Edges with a â€™Lacinia Mobilisâ€™: Journal of Crustacean Biology, 2006, 26, 113-118.	0.8	10
69	The anatomy of the king crab Hapalogaster mertensii Brandt, 1850 (Anomura: Paguroidea:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 crabs. Contributions To Zoology, 2015, 84, 149-165.	0.5	10
70	The Arthropod Head. , 2013, , 223-240.		9
71	The Hemolymph Vascular System in Tethysbaena Argentarii (Thermosbaenacea: Monodellidae) as Revealed by 3D Reconstructions of Semi-Thin Sections. Journal of Crustacean Biology, 2009, 29, 13-17.	0.8	8
72	Circulatory System and Respiration. , 2013, , 376-412.		8

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73	Stochastic effects associated with resting egg banks lead to genetically differentiated active populations in large branchiopods from temporary water bodies. <i>Hydrobiologia</i> , 2015, 760, 239-253.	2.0	8
74	Revealing their innermost secrets: an evolutionary perspective on the disparity of the organ systems in anomuran crabs (Crustacea: Decapoda: Anomura). <i>Contributions To Zoology</i> , 2016, 85, 361-386.	0.5	8
75	Locomotion in Anaspides (Anaspidacea, Malacostraca) – insights from a morpho-functional study of thoracopods with some observations on swimming and walking. <i>Zoology</i> , 2021, 144, 125883.	1.2	8
76	The brain and the corresponding sense organs in calanoid copepods – Evidence of vestiges of compound eyes. <i>Arthropod Structure and Development</i> , 2020, 54, 100902.	1.4	7
77	Nervous system development in the fairy shrimp <i>Branchinella</i> sp. (Crustacea: Branchiopoda: Tj ETQq1 1 0.784314 rgBT /Overlock 10) organs. <i>Journal of Morphology</i> , 2016, 277, 1423-1446.	1.2	6
78	Evolution, classification, and global diversity of large Branchiopoda. <i>Journal of Crustacean Biology</i> , 2015, 35, 297-300.	0.8	5
79	Phylogeny and species diversity of Tasmanian mountain shrimps and their relatives (Crustacea, Tj ETQq1 1 0.784314 rgBT /Overlock 10)	1.7	5
80	Phylogeny and Biogeography of Spinicaudata (Crustacea: Branchiopoda). <i>Zoological Studies</i> , 2020, 59, e44.	0.3	5
81	Limb articulation in caridoid crustaceans revisited – New evidence from Euphausiacea (Malacostraca). <i>Arthropod Structure and Development</i> , 2008, 37, 221-233.	1.4	4
82	How the cladoceran heterogonic life cycle evolved – insights from gamogenetic reproduction and direct development in Cyclestherida. <i>Evolution &amp; Development</i> , 2015, 17, 356-366.	2.0	4
83	Unexpected UBX expression in the maxilliped of the mystacocarid crustacean <i>Derocheilocharis remanei</i> – evidence for a different way of making a maxilliped?. <i>Development Genes and Evolution</i> , 2017, 227, 289-296.	0.9	4
84	From swimming towards sessility in two metamorphoses – the drastic changes in structure and function of the nervous system of the bay barnacle <i>Amphibalanus improvisus</i> (Crustacea, Thecostraca, Tj ETQq0 0 0 rgBT /Overlock 10)	0.5	4
85	Constant morphological patterns in the hemolymph vascular system of crayfish (Crustacea, Tj ETQq1 1 0.784314 rgBT /Overlock 10)	1.4	3
86	Why – swimming crabs are able to swim – The importance of the axial skeleton: A comparison between the – swimming crab <i>Liocarcinus depurator</i> and two other brachyuran crabs ( <i>Cancer pagurus</i> , Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5) 100972.	1.4	3
87	The chewing lice (Phthiraptera: Ischnocera, Amblycera) of the great cormorant ( <i>Phalacrocorax</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10)	1.3	2
88	High degree of non-genetic phenotypic variation in the vascular system of crayfish: a discussion of possible causes and implications. <i>Zoomorphology</i> , 2021, 140, 317-329.	0.8	2
89	The Tasmanian Lake Shrimps, <i>Paranaspides</i> Smith, 1908 (Crustacea, Syncarida, Anaspididae). <i>Records of the Australian Museum</i> , 2017, 69, 259-275.	0.2	2
90	How body patterning might have worked in the evolution of arthropods – A case study of the mystacocarid <i>Derocheilocharis remanei</i> (Crustacea, Oligostraca). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2022, 338, 342-359.	1.3	2

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91	The Development of Phylogenetic Concepts in Hennig's Early Theoretical Publications (1947-1966). <i>Systematic Biology</i> , 1994, 43, 212.	5.6	1
92	ROSTOCK: The Zoological Collection of the University of Rostock. <i>Natural History Collections</i> , 2018, , 583-589.	0.1	1
93	Adapting spherical-harmonics-based geometric morphometrics (SPHARM) for 3D images containing large cavity openings using ambient occlusion: a study with hermit crab claw shape variability. <i>Zoomorphology</i> , 2020, 139, 421-432.	0.8	1
94	Genetic structure and new occurrence records of the iconic Tasmanian mountain shrimp. <i>Australian Journal of Zoology</i> , 2021, 68, 45-53.	1.0	1
95	Evolutionary Developmental Biology: New challenges to the homology concept? â€œ The 46th Phylogenetisches Symposium held in Jena. <i>Theory in Biosciences</i> , 2005, , .	1.4	0