Fritz Vollrath

List of Publications by Year in Descending Order

178 papers	11,710 citations	61 h-index	103 g-index
189 ext. papers	12,922 ext. citations	7.9 avg, IF	6.63 L-index

#	Paper	IF	Citations
178	Spinning conditions affect structure and properties of Nephila spider silk. *MRS Bulletin*, **2021**, 46, 915	3.2	0
177	Dynamic environments do not appear to constrain spider web building behaviour. *Die Naturwissenschaften*, **2021**, 108, 20	2	1
176	Human footprint and protected areas shape elephant range across Africa. *Current Biology*, **2021**, 31, 2437-2445e4	7.5	19
175	Seismic localization of elephant rumbles as a monitoring approach. *Journal of the Royal Society Interface*, **2021**, 18, 20210264	4.1	0
174	Anterior knee pain from the evolutionary perspective. *Knee*, **2021**, 31, 1-10	2.6	
173	Structural Diversity of Native Major Ampullate, Minor Ampullate, Cylindriform, and Flagelliform Silk Proteins in Solution. *Biomacromolecules*, **2020**, 21, 3387-3393	6.9	1
172	Hard X-ray nano-holotomography with a Fresnel zone plate. *Optics Express*, **2020**, 28, 37514-37525	3.3	4
171	Spider webs inspiring soft robotics. *Journal of the Royal Society Interface*, **2020**, 17, 20200569	4.1	3
170	Functional flexibility in a spider's orb web. *Journal of Experimental Biology*, **2020**, 223,	3	3
169	Movement reveals reproductive tactics in male elephants. *Journal of Animal Ecology*, **2020**, 89, 57-67	4.7	16
168	Artificial spinning of natural silk threads. *Scientific Reports*, **2019**, 9, 15428	4.9	8
167	Cryogenic toughness of natural silk and a proposed structure–function relationship. *Materials Chemistry Frontiers*, **2019**, 3, 2507-2513	7.8	11
166	Differential Scanning Calorimetry of Native Silk Feedstock. *Macromolecular Bioscience*, **2019**, 19, e1800238	3.5	5
165	Ivory as an Important Model Bio-composite. *Curator*, **2018**, 61, 95-110	0.4	11
164	Biophotonics of Native Silk Fibrils. *Macromolecular Bioscience*, **2018**, 18, e1700295	5.5	26
163	Exploring the Use of Native Spider Silk as an Optical Fiber for Chemical Sensing. *Journal of Lightwave Technology*, **2018**, 36, 1138-1144	4	33
162	Analysing the structure and glass transition behaviour of silks for archaeology and conservation. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	1

161	Graph theory illustrates spatial and temporal features that structure elephant rest locations and reflect risk perception. *Ecography*, **2017**, 40, 598-605	6.5	20
160	Observation of interfacial damage in a silk-epoxy composite, using a simple mechanoresponsive fluorescent probe. *Advanced Materials Interfaces*, **2017**, 4, 1601018	4.6	20
159	Silk micrococoons for protein stabilisation and molecular encapsulation. *Nature Communications*, **2017**, 8, 15902	17.4	65
158	Drop-on-coilable-fibre systems exhibit negative stiffness events and transitions in coiling morphology. *Soft Matter*, **2017**, 13, 5509-5517	3.6	6
157	Comparing the microstructure and mechanical properties of Bombyx mori and Antheraea pernyi cocoon composites. *Acta Biomaterialia*, **2017**, 47, 60-70	10.8	34
156	Weaving our way towards a new generation of fibre-optic chemical sensors based on spider silk **2016**,		1
155	Dry-Spun Silk Produces Native-Like Fibroin Solutions. *Biomacromolecules*, **2016**, 17, 3198-3204	6.9	32
154	Spider Silk: Mother Nature's Bio-Superlens. *Nano Letters*, **2016**, 16, 5842-5	11.5	54
153	Strain-dependent fractional molecular diffusion in humid spider silk fibres. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	5
152	The complexity of silk under the spotlight of synthetic biology. *Biochemical Society Transactions*, **2016**, 44, 1151-7	5.1	5
151	Glass transitions in native silk fibres studied by dynamic mechanical thermal analysis. *Soft Matter*, **2016**, 12, 5926-36	3.6	33
150	Silk fibroin gelation via non-solvent induced phase separation. *Biomaterials Science*, **2016**, 4, 460-73	7.4	38
149	In-drop capillary spooling of spider capture thread inspires hybrid fibers with mixed solid-liquid mechanical properties. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 6143-7	11.5	53
148	Interesting green elastomeric composites: Silk textile reinforced natural rubber. *Polymer Testing*, **2016**, 55, 17-24	4.5	36
147	Coiling of an elastic beam inside a disk: A model for spider-capture silk. *International Journal of Non-Linear Mechanics*, **2015**, 75, 59-66	2.8	10
146	Silk Reconstitution Disrupts Fibroin Self-Assembly. *Biomacromolecules*, **2015**, 16, 2796-804	6.9	30
145	Modern analysis of an ancient integrated farming arrangement: life cycle assessment of a mulberry dyke and pond system. *International Journal of Life Cycle Assessment*, **2015**, 20, 1387-1398	4.6	14
144	The biocomposite tube of a chaetopterid marine worm constructed with highly-controlled orientation of nanofilaments. *Materials Science and Engineering C*, **2015**, 48, 408-15	8.3	14

143	Silk cocoons as natural macro-balloon fillers in novel polyurethane-based syntactic foams. *Polymer*, **2015**, 56, 93-101	3.9	22
142	Linking naturally and unnaturally spun silks through the forced reeling of Bombyx mori. *Acta Biomaterialia*, **2015**, 11, 247-55	10.8	32
141	Unpicking the signal thread of the sector web spider Zygiella x-notata. *Journal of the Royal Society Interface*, **2015**, 12, 20150633	4.1	13
140	Identification and classification of silks using infrared spectroscopy. *Journal of Experimental Biology* , **2015**, 218, 3138-49	3	65
139	Spiders spinning electrically charged nano-fibres. *Biology Letters*, **2015**, 11, 20140813	3.6	19
138	Spiderman silks science and fiction. *Biochemist*, **2015**, 37, 6-9	0.5	
137	Silk protein aggregation kinetics revealed by Rheo-IR. *Acta Biomaterialia*, **2014**, 10, 776-84	10.8	49
136	Life cycle assessment of Indian silk. *Journal of Cleaner Production*, **2014**, 81, 158-167	10.3	35
135	Can silk become an effective reinforcing fibre? A property comparison with flax and glass reinforced composites. *Composites Science and Technology*, **2014**, 101, 173-183	8.6	102
134	Investigating the rheological properties of native plant latex. *Journal of the Royal Society Interface*, **2014**, 11, 20130847	4.1	13
133	Housing tubes from the marine worm Chaetopterus sp.: biomaterials with exceptionally broad thermomechanical properties. *Journal of the Royal Society Interface*, **2014**, 11, 20140525	4.1	6
132	Differential Scanning Fluorimetry provides high throughput data on silk protein transitions. *Scientific Reports*, **2014**, 4, 5625	4.9	29
131	Structure and properties of silk from the African wild silkmoth Gonometa postica reared indoors. *Journal of Insect Science*, **2014**, 14, 36	2	7
130	The speed of sound in silk: linking material performance to biological function. *Advanced Materials*, **2014**, 26, 5179-83	24	35
129	Opportunities for silk textiles in reinforced biocomposites: Studying through-thickness compaction behaviour. *Composites Part A: Applied Science and Manufacturing*, **2014**, 62, 1-10	8.4	37
128	African elephant alarm calls distinguish between threats from humans and bees. *PLoS ONE*, **2014**, 9, e89403	3.7	32
127	Mechanical and thermal degradation properties of silk from African wild silkmoths. *Journal of Applied Polymer Science*, **2013**, 127, 289-297	2.9	8
126	Consequences of electrical conductivity in an orb spider's capture web. *Die Naturwissenschaften*, **2013**, 100, 1163-9	2	19

125	Water mediated proton hopping empowers proteins. *Soft Matter*, **2013**, 9, 643-646	3.6	20
124	Thermally induced changes in dynamic mechanical properties of native silks. *Biomacromolecules*, **2013**, 14, 930-7	6.9	73
123	Forced reeling of Bombyx mori silk: separating behavior and processing conditions. *Biomacromolecules*, **2013**, 14, 3653-9	6.9	45
122	Chitin in the silk gland ducts of the spider Nephila edulis and the silkworm Bombyx mori. *PLoS ONE*, **2013**, 8, e73225	3.7	29
121	The impact behaviour of silk cocoons. *Journal of Experimental Biology*, **2013**, 216, 2648-57	3	33
120	Spider silk morphology for responsive materials. *Materials Research Society Symposia Proceedings*, **2013**, 1498, 197-202		
119	Brown recluse spider's nanometer scale ribbons of stiff extensible silk. *Advanced Materials*, **2013**, 25, 7028-32	24	16
118	Spider Silk: Brown Recluse Spider's Nanometer Scale Ribbons of Stiff Extensible Silk (Adv. Mater. 48/2013). *Advanced Materials*, **2013**, 25, 7027-7027	24	
117	Morphology and structure of silkworm cocoons. *Materials Science and Engineering C*, **2012**, 32, 772-778	8.3	78
116	Rainfall pattern and nutrient content influences on African elephants debarking behaviour in Samburu and Buffalo Springs National Reserves, Kenya. *African Journal of Ecology*, **2012**, 50, 152-159	0.8	7
115	Silk and synthetic polymers: reconciling 100 degrees of separation. *Advanced Materials*, **2012**, 24, 105-9, 104	24	86
114	Polymer Fibers: Silk and Synthetic Polymers: Reconciling 100 Degrees of Separation (Adv. Mater. 1/2012). *Advanced Materials*, **2012**, 24, 104-104	24	2
113	Distinct structural and optical regimes in natural silk spinning. *Biopolymers*, **2012**, 97, 368-73	2.2	16
112	A novel marine silk. *Die Naturwissenschaften*, **2012**, 99, 3-10	2	21
111	Tensile and shear mechanical properties of rotator cuff repair patches. *Journal of Shoulder and Elbow Surgery*, **2012**, 21, 1168-76	4.3	45
110	Silks cope with stress by tuning their mechanical properties under load. *Polymer*, **2012**, 53, 2717-2726	3.9	35
109	The mechanical properties of the non-sticky spiral in Nephila orb webs (Araneae, Nephilidae). *Journal of Experimental Biology*, **2012**, 215, 3362-9	3	17
108	Silk cocoon (Bombyx mori): multi-layer structure and mechanical properties. *Acta Biomaterialia*, **2012**, 8, 2620-7	10.8	93

107	Study on the microstructure of African wild silk cocoon shells and fibers. *International Journal of Biological Macromolecules*, **2012**, 50, 63-8	7.9	15
106	Water mobility, denaturation and the glass transition in proteins. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2012**, 1824, 785-91	4	34
105	Behavior of silk protein at the air□water interface. *Soft Matter*, **2012**, 8, 9705	3.6	29
104	Shear-induced self-assembly of native silk proteins into fibrils studied by atomic force microscopy. *Biomacromolecules*, **2012**, 13, 676-82	6.9	105
103	Spinning a Marine Silk for the Purpose of Tube-Building. *Journal of Crustacean Biology*, **2012**, 32, 191-202	0.8	17
102	A poisonous surprise under the coat of the African crested rat. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 675-80	4.4	26
101	Structure and physical properties of silkworm cocoons. *Journal of the Royal Society Interface*, **2012**, 9, 2299-308	4.1	88
100	Rheo-attenuated total reflectance infrared spectroscopy: a new tool to study biopolymers. *Physical Chemistry Chemical Physics*, **2011**, 13, 3979-84	3.6	23
99	Beehive fences as effective deterrents for crop-raiding elephants: field trials in northern Kenya. *African Journal of Ecology*, **2011**, 49, 431-439	0.8	66
98	Wind speed affects prey-catching behaviour in an orb web spider. *Die Naturwissenschaften*, **2011**, 98, 1063-7	2	15
97	Torn human rotator cuff tendons have reduced collagen thermal properties on differential scanning calorimetry. *Journal of Orthopaedic Research*, **2011**, 29, 1938-43	3.8	11
96	Understanding the Mechanical Properties of Antheraea Pernyi Silk□From Primary Structure to Condensed Structure of the Protein. *Advanced Functional Materials*, **2011**, 21, 729-737	15.6	94
95	There are many more lessons still to be learned from spider silks. *Soft Matter*, **2011**, 7, 9595	3.6	77
94	Two mechanisms for supercontraction in Nephila spider dragline silk. *Biomacromolecules*, **2011**, 12, 4030	6.9	52
93	Demineralization enables reeling of wild silkmoth cocoons. *Biomacromolecules*, **2011**, 12, 2257-66	6.9	32
92	The impact of elephants, Loxodonta africana, on woody vegetation through selective debarking in Samburu and Buffalo Springs National Reserves, Kenya. *African Journal of Ecology*, **2010**, 48, 87-95	0.8	25
91	Small angle neutron scattering of native and reconstituted silk fibroin. *Soft Matter*, **2010**, 6, 4389	3.6	41
90	Mulberry Silk, Spider Dragline and Recombinant Silks **2010**, 235-254		

89	Bee threat elicits alarm call in African elephants. *PLoS ONE*, **2010**, 5, e10346	3.7	30
88	Nutrient balance affects foraging behaviour of a trap-building predator. *Biology Letters*, **2009**, 5, 735-8	3.6	32
87	Beehive fence deters crop-raiding elephants. *African Journal of Ecology*, **2009**, 47, 131-137	0.8	58
86	A kinetic model for thermal degradation in polymers with specific application to proteins. *Polymer*, **2009**, 50, 1814-1818	3.9	18
85	Silks as ancient models for modern polymers. *Polymer*, **2009**, 50, 5623-5632	3.9	121
84	Concentration state dependence of the rheological and structural properties of reconstituted silk. *Biomacromolecules*, **2009**, 10, 2724-8	6.9	37
83	Structural disorder in silk proteins reveals the emergence of elastomericity. *Biomacromolecules*, **2008**, 9, 216-21	6.9	44
82	Proline and processing of spider silks. *Biomacromolecules*, **2008**, 9, 116-21	6.9	166
81	Breaking the 200 nm limit for routine flow linear dichroism measurements using UV synchrotron radiation. *Biophysical Journal*, **2008**, 95, 5974-7	2.9	19
80	Endocrine and behavioral changes in male African elephants: linking hormone changes to sexual state and reproductive tactics. *Hormones and Behavior*, **2008**, 54, 539-48	3.7	41
79	Elasticity of spider silks. *Biomacromolecules*, **2008**, 9, 1782-6	6.9	61
78	Deformation micromechanics of spider silk. *Journal of Materials Science*, **2008**, 43, 3728-3732	4.3	21
77	Silk Fibroin-Regulated Crystallization of Calcium Carbonate. *Advanced Functional Materials*, **2008**, 18, 2172-2179	15.6	112
76	Conformation transition kinetics of Bombyx mori silk protein. *Proteins: Structure, Function and Bioinformatics*, **2007**, 68, 223-31	4.2	154
75	African elephants run from the sound of disturbed bees. *Current Biology*, **2007**, 17, R832-3	6.3	47
74	The Role of Behavior in the Evolution of Spiders, Silks, and Webs. *Annual Review of Ecology, Evolution, and Systematics*, **2007**, 38, 819-846	13.5	127
73	Behavioural reactions of elephants towards a dying and deceased matriarch. *Applied Animal Behaviour Science*, **2006**, 100, 87-102	2.2	152
72	Elephants avoid costly mountaineering. *Current Biology*, **2006**, 16, R527-9	6.3	108

71	Spider silk: thousands of nano-filaments and dollops of sticky glue. *Current Biology*, **2006**, 16, R925-7	6.3	26
70	Stable isotopes in elephant hair document migration patterns and diet changes. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 371-3	11.5	170
69	Beta-silks: enhancing and controlling aggregation. *Advances in Protein Chemistry*, **2006**, 73, 17-53		34
68	The spinning processes for spider silk. *Soft Matter*, **2006**, 2, 448-451	3.6	62
67	Spider silk as archetypal protein elastomer. *Soft Matter*, **2006**, 2, 377-385	3.6	220
66	Biopolymers: shape memory in spider draglines. *Nature*, **2006**, 440, 621	50.4	80
65	Transient Expression of a Major Ampullate Spidroin 1 Gene Fragment from sp. in Mammalian Cells. *Cancer Genomics and Proteomics*, **2006**, 3, 83-87	3.3	6
64	Further investigation on potassium-induced conformation transition of Nephila spidroin film with two-dimensional infrared correlation spectroscopy. *Biomacromolecules*, **2005**, 6, 302-8	6.9	32
63	Conformational polymorphism, stability and aggregation in spider dragline silks proteins. *International Journal of Biological Macromolecules*, **2005**, 36, 215-24	7.9	19
62	The conserved C-termini contribute to the properties of spider silk fibroins. *Biochemical and Biophysical Research Communications*, **2005**, 338, 897-902	3.4	73
61	Spider silk proteins--mechanical property and gene sequence. *Zoological Science*, **2005**, 22, 273-81	0.8	124
60	Estimating elephant densities from wells and droppings in dried out riverbeds. *African Journal of Ecology*, **2005**, 43, 312-319	0.8	9
59	Relationships between supercontraction and mechanical properties of spider silk. *Nature Materials*, **2005**, 4, 901-5	27	225
58	Spiders' webs. *Current Biology*, **2005**, 15, R364-5	6.3	25
57	Novel assembly properties of recombinant spider dragline silk proteins. *Current Biology*, **2004**, 14, 2070-4	6.3	151
56	Influence of CO2 on the micro-structural properties of spider dragline silk: X-ray microdiffraction results. *Die Naturwissenschaften*, **2004**, 91, 30-3	2	16
55	Spider silk protein refolding is controlled by changing pH. *Biomacromolecules*, **2004**, 5, 704-10	6.9	127
54	Structural conformation of spidroin in solution: a synchrotron radiation circular dichroism study. *Biomacromolecules*, **2004**, 5, 758-67	6.9	54

53	Secondary structures and conformational changes in flagelliform, cylindrical, major, and minor ampullate silk proteins. Temperature and concentration effects. *Biomacromolecules*, **2004**, 5, 2105-15	6.9	64
52	NMR characterization of native liquid spider dragline silk from Nephila edulis. *Biomacromolecules*, **2004**, 5, 834-9	6.9	68
51	pH induced changes in the rheology of silk fibroin solution from the middle division of Bombyx mori silkworm. *Biomacromolecules*, **2004**, 5, 768-72	6.9	150
50	The effects of neurotoxins on web-geometry and web-building behaviour in Araneus diadematus Cl. *Physiology and Behavior*, **2004**, 82, 519-29	3.5	23
49	Effects of prey quality and availability on the life history of a trap-building predator. *Oikos*, **2003**, 101, 631-638	4	52
48	Structure and Behavior of Regenerated Spider Silk. *Macromolecules*, **2003**, 36, 1157-1161	5.5	92
47	Analyis of structure/property relationships in silkworm (Bombyx mori) and spider dragline (Nephila edulis) silks using Raman spectroscopy. *Biomacromolecules*, **2003**, 4, 387-94	6.9	126
46	Copper in the silk formation process of Bombyx mori silkworm. *FEBS Letters*, **2003**, 554, 337-41	3.8	52
45	African bees to control African elephants. *Die Naturwissenschaften*, **2002**, 89, 508-11	2	39
44	Amyloidogenic nature of spider silk. *FEBS Journal*, **2002**, 269, 4159-63		167
43	Surprising strength of silkworm silk. *Nature*, **2002**, 418, 741	50.4	724
42	Rheological characterization of nephila spidroin solution. *Biomacromolecules*, **2002**, 3, 644-8	6.9	109
41	Changes in element composition along the spinning duct in a Nephila spider. *Die Naturwissenschaften*, **2001**, 88, 179-82	2	188
40	Liquid crystalline spinning of spider silk. *Nature*, **2001**, 410, 541-8	50.4	1244
39	Comparison of the spinning of selachian egg case ply sheets and orb web spider dragline filaments. *Biomacromolecules*, **2001**, 2, 323-34	6.9	26
38	Extreme body size variability in the golden silk spider (Nephila edulis) does not extend to genitalia. *Journal of Zoology*, **2000**, 251, 7-14	2	28
37	Strength and structure of spiders' silks. *Reviews in Molecular Biotechnology*, **2000**, 74, 67-83		188
36	X-ray diffraction on spider silk during controlled extrusion under a synchrotron radiation X-ray beam. *Biomacromolecules*, **2000**, 1, 622-6	6.9	87

35	Extreme body size variability in the golden silk spider (Nephila edulis) does not extend to genitalia **2000**, 251, 7		2
34	The effect of solvents on the contraction and mechanical properties of spider silk. *Polymer*, **1999**, 40, 1799-1806	3.9	126
33	A virtual robot to model the use of regenerated legs in a web-building spider. *Animal Behaviour*, **1999**, 57, 223-232	2.8	21
32	Biology of spider silk. *International Journal of Biological Macromolecules*, **1999**, 24, 81-8	7.9	169
31	The effect of solvents on spider silk studied by mechanical testing and single-fibre Raman spectroscopy. *International Journal of Biological Macromolecules*, **1999**, 24, 295-300	7.9	79
30	Variability in the mechanical properties of spider silks on three levels: interspecific, intraspecific and intraindividual. *International Journal of Biological Macromolecules*, **1999**, 24, 301-6	7.9	212
29	In Situ X-ray Diffraction during Forced Silking of Spider Silk. *Macromolecules*, **1999**, 32, 4464-4466	5.5	85
28	Fabrication of Magnetic Spider Silk and Other Silk-Fiber Composites Using Inorganic Nanoparticles. *Advanced Materials*, **1998**, 10, 801-805	24	88
27	The effect of prey type on the geometry of the capture web of Araneus diadematus. *Die Naturwissenschaften*, **1998**, 85, 391-394	2	52
26	Dwarf males. *Trends in Ecology and Evolution*, **1998**, 13, 159-63	10.9	157
25	Genital morphology of Nephila edulis: implications for sperm competition in spiders. *Canadian Journal of Zoology*, **1998**, 76, 39-47	1.5	8
24	Design variability in web geometry of an orb-weaving spider. *Physiology and Behavior*, **1997**, 62, 735-43	3.5	90
23	Analysing Spider Web-building Behaviour with Rule-based Simulations and Genetic Algorithms. *Journal of Theoretical Biology*, **1997**, 185, 321-331	2.3	48
22	Structural engineering of an orb-spider's web. *Nature*, **1995**, 373, 146-148	50.4	119
21	The Selfish Crouton. *Behaviour*, **1995**, 132, 49-55	1.4	7
20	Unfreezing the behaviour of two orb spiders. *Physiology and Behavior*, **1995**, 58, 1167-73	3.5	39
19	Fragrant genes help Damenwahl. *Trends in Ecology and Evolution*, **1995**, 10, 307-8	10.9	18
18	Thread biomechanics in the two orb-weaving spiders Araneus diadematus (Araneae, Araneidae) and Uloborus walckenaerius (Araneae, Uloboridae). *The Journal of Experimental Zoology*, **1995**, 271, 1-17		94

17	Design features of the orb web of the spider, Araneus diadematus. *Behavioral Ecology*, **1994**, 5, 280-287	2.3	63
16	Analysis and Interpretation of Orb Spider Exploration and Web-building behavior. *Advances in the Study of Behavior*, **1992**, 147-199	3.4	54
15	Sex-ratio adjustment in solitary and social spiders. *Trends in Ecology and Evolution*, **1992**, 7, 326-7	10.9	12
14	Spider webs are efficient collectors of agrochemical spray. *Pest Management Science*, **1992**, 36, 47-51		28
13	Sexual dimorphism and distorted sex ratios in spiders. *Nature*, **1992**, 360, 156-159	50.4	224
12	Compounds in the droplets of the orb spider's viscid spiral. *Nature*, **1990**, 345, 526-528	50.4	184
11	Modulation of the mechanical properties of spider silk by coating with water. *Nature*, **1989**, 340, 305-307	50.4	224
10	Spiral orientation ofAraneus diadematus orb webs built during vertical rotation. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1988**, 162, 413-419	2.3	15
9	Untangling the spider's web. *Trends in Ecology and Evolution*, **1988**, 3, 331-5	10.9	22
8	Altered geometry of webs in spiders with regenerated legs. *Nature*, **1987**, 328, 247-248	50.4	53
7	Eusociality and extraordinary sex ratios in the spider Anelosimus eximius (Araneae: Theridiidae). *Behavioral Ecology and Sociobiology*, **1986**, 18, 283-287	2.5	70
6	Gravity as an orientation guide during web-construction in the orb spiderAraneus diadematus (Araneae, Araneidae). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1986**, 159, 275-280	2.3	20
5	Web spider's dilemma: a risky move or site dependent growth. *Oecologia*, **1985**, 68, 69-72	2.9	72
4	Prey Capture and Feeding in the Social Spider Anelosimus eximius. *Zeitschrift F Tierpsychologie*, **1983**, 61, 334-340		41
3	Colony Foundation in a Social Spider. *Zeitschrift F Tierpsychologie*, **1982**, 60, 313-324		62
2	Male Body Size and Fitness in the Web-building Spider Nephila clavipes. *Zeitschrift F Tierpsychologie*, **1980**, 53, 61-78		103
1	Behaviour of the kleptoparasitic spider Argyrodes elevatus (Araneae, theridiidae). *Animal Behaviour* , **1979**, 27, 515-521	2.8	75