

# Roberto Guidetti

## List of Publications by Year in descending order

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104  
papers

3,501  
citations

159585

30  
h-index

175258

52  
g-index

109  
all docs

109  
docs citations

109  
times ranked

1398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of predatory arthropods of the invasive <i>Halyomorpha halys</i> through molecular gut content analysis. <i>Agricultural and Forest Entomology</i> , 2022, 24, 219-228.	1.3	1
2	Molecular phylogenetics, speciation, and long distance dispersal in tardigrade evolution: A case study of the genus <i>Milnesium</i> . <i>Molecular Phylogenetics and Evolution</i> , 2022, 169, 107401.	2.7	5
3	Production of reactive oxygen species and involvement of bioprotectants during anhydrobiosis in the tardigrade <i>Paramacrobiotus spatialis</i> . <i>Scientific Reports</i> , 2022, 12, 1938.	3.3	23
4	Morphology and taxonomy of the genus <i>Ramazzottius</i> (Eutardigrada; Ramazzottiidae) with the integrative description of <i>Ramazzottius kretschmanni</i> sp. nov. , 2022, 89, 346-370.		7
5	Microhabitats, macro-differences: a survey of temperature records in Victoria Land terrestrial and freshwater environments. <i>Antarctic Science</i> , 2022, 34, 256-265.	0.9	3
6	Antioxidant Response during the Kinetics of Anhydrobiosis in Two Eutardigrade Species. <i>Life</i> , 2022, 12, 817.	2.4	8
7	The morphological diversity within a species can obscure the correct identification. <i>Zoologischer Anzeiger</i> , 2022, , .	0.9	1
8	Tardigrades of Kristianstads Vattenrike Biosphere Reserve with description of four new species from Sweden. <i>Scientific Reports</i> , 2021, 11, 4861.	3.3	13
9	Multi-marker DNA metabarcoding reflects tardigrade diversity in different habitats. <i>Genome</i> , 2021, 64, 217-231.	2.0	9
10	Comparative phylogeography reveals consistently shallow genetic diversity in a mitochondrial marker in Antarctic bdelloid rotifers. <i>Journal of Biogeography</i> , 2021, 48, 1797-1809.	3.0	17
11	The toughest animals of the Earth versus global warming: Effects of long-term experimental warming on tardigrade community structure of a temperate deciduous forest. <i>Ecology and Evolution</i> , 2021, 11, 9856-9863.	1.9	2
12	When DNA sequence data and morphological results fit together: Phylogenetic position of <i>Crenubiotus</i> within Macrobiotioidea (Eutardigrada) with description of <i>Crenubiotus ruhesteyni</i> sp. nov. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2021, 59, 576-587.	1.4	12
13	Further insights in the Tardigrada microbiome: phylogenetic position and prevalence of infection of four new Alphaproteobacteria putative endosymbionts. <i>Zoological Journal of the Linnean Society</i> , 2020, 188, 925-937.	2.3	15
14	The species identification problem in mirids (Hemiptera: Heteroptera) highlighted by DNA barcoding and species delimitation studies. , 2020, 87, 310-324.		6
15	Phylum Tardigrada. , 2020, , 505-522.		11
16	Two new species of Tardigrada from moss cushions ( <i>Grimmia</i> sp.) in a xerothermic habitat in northeast Tennessee (USA, North America), with the first identification of males in the genus <i>Viridiscus</i> . <i>PeerJ</i> , 2020, 8, e10251.	2.0	18
17	CMOS and 3D Printing for NMR Spectroscopy at the Single Embryo Scale. <i>Chimia</i> , 2019, 73, 635.	0.6	0
18	Life-history traits and description of the new gonochoric amphimictic <i>Mesobiotus joenssoni</i> (Eutardigrada: Macrobiotidae) from the island of Elba, Italy. <i>Zoological Journal of the Linnean Society</i> , 2019, , .	2.3	5

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19	Increasing knowledge of Antarctic biodiversity: new endemic taxa of tardigrades (Eutardigrada); Tj ETQq1 1 0.784314 rgBT /Qyerlock 10	1.2	31
20	High diversity in species, reproductive modes and distribution within the Paramacrobiotus richtersi complex (Eutardigrada, Macrobiotidae). Zoological Letters, 2019, 5, 1.	1.3	84
21	Phylum Tardigrada. , 2019, , 533-548.		0
22	A data set on the distribution of Rotifera in Antarctica. Biogeographia, 2019, 35, .	0.5	7
23	Will the Antarctic tardigrade <i>Acutuncus antarcticus</i> be able to withstand environmental stresses due to global climate change?. Journal of Experimental Biology, 2018, 221, .	1.7	18
24	The Microbial Community of Tardigrades: Environmental Influence and Species Specificity of Microbiome Structure and Composition. Microbial Ecology, 2018, 76, 467-481.	2.8	28
25	Genetic Diversity of <i>Halyomorpha halys</i> (Hemiptera, Pentatomidae) in Korea and Comparison with <i>COI</i> Sequence Datasets from East Asia, Europe, and North America. Florida Entomologist, 2018, 101, 49-54.	0.5	15
26	Genetic diversity of the brown marmorated stink bug <i>Halyomorpha halys</i> in the invaded territories of Europe and its patterns of diffusion in Italy. Biological Invasions, 2018, 20, 1073-1092.	2.4	42
27	Paleontology and Molecular Dating. Zoological Monographs, 2018, , 131-143.	1.1	6
28	Environmental Adaptations: Encystment and Cyclomorphosis. Zoological Monographs, 2018, , 249-271.	1.1	8
29	Tardigrade Taxa. Zoological Monographs, 2018, , 371-409.	1.1	8
30	Molecular palaeontology illuminates the evolution of ecdysozoan vision. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, .	2.6	25
31	3D printed microchannels for sub-nL NMR spectroscopy. PLoS ONE, 2018, 13, e0192780.	2.5	28
32	Comparative analyses of Bertolanius species (Eohypsibiidae; Eutardigrada) with the description of Bertolanius birnae sp. nov. from northern polar regions. Polar Biology, 2017, 40, 123-140.	1.2	14
33	Use of substrate-borne vibrational signals to attract the Brown Marmorated Stink Bug, <i>Halyomorpha halys</i> . Journal of Pest Science, 2017, 90, 1219-1229.	3.7	53
34	NMR spectroscopy of single sub-nL ova with inductive ultra-compact single-chip probes. Scientific Reports, 2017, 7, 44670.	3.3	42
35	Attraction of <i>Halyomorpha halys</i> (Hemiptera: Pentatomidae) haplotypes in North America and Europe to baited traps. Scientific Reports, 2017, 7, 16941.	3.3	21
36	Evolutionary scenarios for the origin of an Antarctic tardigrade species based on molecular clock analyses and biogeographic data. Contributions To Zoology, 2017, 86, 97-110.	0.5	26

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37	Doryphoribius chetumalensis sp. nov. (Eutardigrada: Isohypsibiidae) a new tardigrade species discovered in an unusual habitat of urban areas of Mexico. Zootaxa, 2017, 4344, 345-356.	0.5	9
38	Corrigendum to: Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotodea and Echiniscoidea. Invertebrate Systematics, 2016, 30, 521.	1.3	3
39	Contributors to Volume II. , 2016, , xi-xiii.		0
40	Genetic diversity and biogeography of the south polar water bear Acutuncus antarcticus (Eutardigrada : Hypsibiidae) – evidence that it is a truly pan-Antarctic species. Invertebrate Systematics, 2016, 30, 635.	1.3	47
41	Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotodea and Echiniscoidea. Invertebrate Systematics, 2016, 30, 303.	1.3	79
42	Phylum Tardigrada. , 2016, , 277-290.		3
43	Interspecific relationships of tardigrades with bacteria, fungi and protozoans, with a focus on the phylogenetic position of <i>Pyxidium tardigradum</i> (Ciliophora). Zoological Journal of the Linnean Society, 2016, 178, 846-855.	2.3	12
44	What if the claws are reduced? Morphological and molecular phylogenetic relationships of the genus <i>Haplomacrotus</i> May, 1948 (Eutardigrada, Parachela). Zoological Journal of the Linnean Society, 2016, 178, 819-827.	2.3	15
45	Morphological and molecular analyses on <i>Richtersius</i> (Eutardigrada) diversity reveal its new systematic position and lead to the establishment of a new genus and a new family within Macrobiotodea. Zoological Journal of the Linnean Society, 2016, 178, 834-845.	2.3	44
46	New multivariate image analysis method for detection of differences in chemical and structural composition of chitin structures in tardigrade feeding apparatuses. Zoomorphology, 2016, 135, 43-50.	0.8	8
47	<b>Tardigrades of Sweden; an updated check-list</b> . Zootaxa, 2015, 3981, 491.	0.5	6
48	Space Flight Effects on Antioxidant Molecules in Dry Tardigrades: The TARDIKISS Experiment. BioMed Research International, 2015, 2015, 1-7.	1.9	15
49	Life history traits and reproductive mode of the tardigrade <i>Acutuncus antarcticus</i> under laboratory conditions: strategies to colonize the Antarctic environment. Hydrobiologia, 2015, 761, 277-291.	2.0	26
50	A pest alien invasion in progress: potential pathways of origin of the brown marmorated stink bug <i>Halyomorpha halys</i> populations in Italy. Journal of Pest Science, 2015, 88, 1-7.	3.7	61
51	Superoxide Anion Radical Production in the Tardigrade <i>Paramacrotus richtersi</i> , the First Electron Paramagnetic Resonance Spin-Trapping Study. Physiological and Biochemical Zoology, 2015, 88, 451-454.	1.5	4
52	Distribution of Calcium and Chitin in the Tardigrade Feeding Apparatus in Relation to its Function and Morphology. Integrative and Comparative Biology, 2015, 55, 241-252.	2.0	17
53	Phylum Tardigrada. , 2015, , 347-380.		114
54	<b>Aquatic tardigrades in the Great Smoky Mountains National Park, North Carolina and Tennessee, U.S.A., with the description of a new species of <i>Thulinus</i> (Tardigrada, Isohypsibiidae)</b> . Zootaxa, 2014, 3764, 524.	0.5	17

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55	Phylogeny of Eutardigrada: New molecular data and their morphological support lead to the identification of new evolutionary lineages. <i>Molecular Phylogenetics and Evolution</i> , 2014, 76, 110-126.	2.7	176
56	<i>Mopsechiniscus franciscae</i> , a new species of a rare genus of Tardigrada from continental Antarctica. <i>Polar Biology</i> , 2014, 37, 1221-1233.	1.2	36
57	Somatic musculature of Tardigrada: phylogenetic signal and metamerism patterns. <i>Zoological Journal of the Linnean Society</i> , 2013, 169, 580-603.	2.3	22
58	High level of phenotypic homoplasy amongst eutardigrades (Tardigrada) based on morphological and total evidence phylogenetic analyses. <i>Zoological Journal of the Linnean Society</i> , 2013, 169, 1-26.	2.3	20
59	The morphological and molecular analyses of a new South American urban tardigrade offer new insights on the biological meaning of the <i>Macrobotus hufelandi</i> group of species (Tardigrada: Tj ETQq1 1 0.784314 rgrBT /Over	1.1	20
60	Comparative analysis of the tardigrade feeding apparatus: adaptive convergence and evolutionary pattern of the piercing stylet system. <i>Journal of Limnology</i> , 2013, 72, .	1.1	20
61	A DNA barcoding approach in the study of tardigrades. <i>Journal of Limnology</i> , 2013, 72, .	1.1	15
62	Integrative taxonomy allows the identification of synonymous species and the erection of a new genus of Echiniscidae (Tardigrada, Heterotardigrada). <i>Zootaxa</i> , 2013, 3613, 557-72.	0.5	37
63	What can we learn from the toughest animals of the Earth? Water bears (tardigrades) as multicellular model organisms in order to perform scientific preparations for lunar exploration. <i>Planetary and Space Science</i> , 2012, 74, 97-102.	1.7	54
64	Heat shock proteins in encysted and anhydrobiotic eutardigrades. <i>Journal of Limnology</i> , 2012, 71, 22.	1.1	6
65	BLOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2012, 24, 397-409.	1.4	22
66	Form and function of the feeding apparatus in Eutardigrada (Tardigrada). <i>Zoomorphology</i> , 2012, 131, 127-148.	0.8	69
67	Nature, Source and Function of Pigments in Tardigrades: In Vivo Raman Imaging of Carotenoids in <i>Echiniscus blumi</i> . <i>PLoS ONE</i> , 2012, 7, e50162.	2.5	20
68	Phylum Tardigrada DoyÃ're, 1840. In: Zhang, Z.-Q. (Ed.) <i>Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness</i> . <i>Zootaxa</i> , 2011, 3148, 96.	0.5	8
69	Resistance of the anhydrobiotic eutardigrade <i>Paramacrobotus richtersi</i> to space flight (LIFEâ€TARSE mission on FOTONâ€M3). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 98-103.	1.4	31
70	Ultraviolet radiation tolerance in hydrated and desiccated eutardigrades. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 104-110.	1.4	67
71	On dormancy strategies in tardigrades. <i>Journal of Insect Physiology</i> , 2011, 57, 567-576.	2.0	162
72	Survival of freezing by hydrated tardigrades inhabiting terrestrial and freshwater habitats. <i>Zoology</i> , 2011, 114, 123-128.	1.2	32

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73	Tardigrada. , 2010, , 455-484.		22
74	Antioxidant defences in hydrated and desiccated states of the tardigrade <i>Paramacrobiotus richtersi</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2010, 156, 115-121.	1.6	78
75	Stress response of a boreo-alpine species of tardigrade, <i>Borealibius zetlandicus</i> (Eutardigrada,) Tj ETQq1 1 0.784314 rgBT / Overlock 1	1.1	26
76	New molecular data for tardigrade phylogeny, with the erection of <i>Paramacrobiotus</i> gen. nov.. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2009, 47, 315-321.	1.4	104
77	Tardigrade Resistance to Space Effects: First Results of Experiments on the LIFE-TARSE Mission on FOTON-M3 (September 2007). <i>Astrobiology</i> , 2009, 9, 581-591.	3.0	81
78	Survival and DNA degradation in anhydrobiotic tardigrades. <i>Journal of Experimental Biology</i> , 2009, 212, 4033-4039.	1.7	66
79	DNA barcoding in Tardigrada: the first case study on <i>Macrobiotus macrocalix</i> Bertolani & Rebecchi 1993 (Eutardigrada, Macrobiotidae). <i>Molecular Ecology Resources</i> , 2009, 9, 699-706.	4.8	75
80	Hsp levels and DNA integrity in anhydrobiotic tardigrades. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2008, 151, S32.	1.8	0
81	Diapause in tardigrades: a study of factors involved in encystment. <i>Journal of Experimental Biology</i> , 2008, 211, 2296-2302.	1.7	30
82	Observations on the <i>tenuis</i> group (Eutardigrada, Macrobiotidae) and description of a new <i>Macrobiotus</i> species. <i>Journal of Natural History</i> , 2007, 41, 2741-2755.	0.5	6
83	Energy allocation in two species of Eutardigrada. <i>Journal of Limnology</i> , 2007, 66, 111.	1.1	9
84	New taxonomic position of several <i>Macrobiotus</i> species (Eutardigrada: Macrobiotidae). <i>Zootaxa</i> , 2007, 1471, 61.	0.5	12
85	Notes to the current checklist of Tardigrada. <i>Zootaxa</i> , 2007, 1579, 41-53.	0.5	199
86	Fantastic animals as an experimental model to teach animal adaptation. <i>BMC Evolutionary Biology</i> , 2007, 7, S13.	3.2	3
87	Encystment Processes and the "Matrioshka-like Stage" in a Moss-dwelling and in a Limnic Species of Eutardigrades (Tardigrada). <i>Hydrobiologia</i> , 2006, 558, 9-21.	2.0	19
88	A New Species of Freshwater Tardigrades from Disko Island (Greenland) Increases an Unsolved Paradox in Tardigrade Systematics. <i>Hydrobiologia</i> , 2006, 558, 69-79.	2.0	14
89	Dynamics of Long-term Anhydrobiotic Survival of Lichen-dwelling Tardigrades. <i>Hydrobiologia</i> , 2006, 558, 23-30.	2.0	55
90	Geonemy, ecology, reproductive biology and morphology of the tardigrade <i>Hypsibius zetlandicus</i> (Eutardigrada: Hypsibiidae) with erection of <i>Borealibius</i> gen. n.. <i>Polar Biology</i> , 2006, 29, 595-603.	1.2	29

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91	Description of the new species <i>Calcarobiotus</i> (C.) <i>longino</i> sp. nov. (Eutardigrada, Macrobiotidae) from Costa Rica with the diagnostic key to the genus <i>Calcarobiotus</i> . Italian Journal of Zoology, 2006, 73, 247-253.	0.6	8
92	Phylogenetic analysis of Macrobiotidae (Eutardigrada, Parachela): a combined morphological and molecular approach. Zoologica Scripta, 2005, 34, 235-244.	1.7	68
93	A new species of Tardigrada (Eutardigrada: Macrobiotidae) from Iberian Peninsula and Canary Islands (Spain). Zootaxa, 2005, 889, 1-11.	0.5	17
94	Tardigrade taxonomy: an updated check list of the taxa and a list of characters for their identification. Zootaxa, 2005, 845, 1-46.	0.5	288
95	Experiences with dormancy in tardigrades. Journal of Limnology, 2004, 63, 16.	1.1	84
96	Revision of the genus <i>Pseudodiphasco</i> (Tardigrada, Macrobiotidae), with the erection of three new genera. Journal of Natural History, 2003, 37, 1679-1690.	0.5	22
97	Long-term anhydrobiotic survival in semi-terrestrial micrometazoans. Journal of Zoology, 2002, 257, 181-187.	1.7	97
98	Effects of Methyl Bromide Fumigation on Anhydrobiotic Micrometazoans. Ecotoxicology and Environmental Safety, 2001, 50, 72-75.	6.0	15
99	An evolutionary line of the Macrobiotinae (Tardigrada, Macrobiotidae): <i>Calcarobiotus</i> and related species. Italian Journal of Zoology, 2001, 68, 229-233.	0.6	21
100	Cuticle structure and systematics of the Macrobiotidae (Tardigrada, Eutardigrada). Acta Zoologica, 2001, 81, 27-36.	0.8	41
101	Phylogenetic Relationships in the Macrobiotidae (Tardigrada: Eutardigrada: Parachela). Zoologischer Anzeiger, 2001, 240, 371-376.	0.9	18
102	The Tardigrades of Emilia (Italy). III. Piane di Mocogno (Northern Apennines). Zoologischer Anzeiger, 2001, 240, 377-383.	0.9	22
103	Tardigradi dell'Appennino umbro-marchigiano. Biogeographia, 1994, 17, .	0.5	2
104	An integrated study of the biodiversity within the <i>Pseudechiniscus suillus</i> "facettalis" group (Heterotardigrada: Echiniscidae). Zoological Journal of the Linnean Society, 0, , .	2.3	16