Roberto Guidetti

List of Publications by Year
in descending order

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	Tardigrade taxonomy: an updated check list of the taxa and a list of characters for their identification. Zootaxa, 2005, 845, 1â€“46.	0.5	288
2	Notes to the current checklist of Tardigrada. Zootaxa, 2007, 1579, 41-53.	0.5	199
3	Phylogeny of Eutardigrada: New molecular data and their morphological support lead to the identification of new evolutionary lineages. Molecular Phylogenetics and Evolution, 2014, 76, 110-126.	2.7	176
4	On dormancy strategies in tardigrades. Journal of Insect Physiology, 2011, 57, 567-576.	2.0	162
5	Phylum Tardigrada. , 2015, , 347-380.		114
6	New molecular data for tardigrade phylogeny, with the erection ofParamacrobiotusgen. nov.. Journal of Zoological Systematics and Evolutionary Research, 2009, 47, 315-321.	1.4	104
7	Long-term anhydrobiotic survival in semi-terrestrial micrometazoans. Journal of Zoology, 2002, 257, 181-187.	1.7	97
8	Experiences with dormancy in tardigrades. Journal of Limnology, 2004, 63, 16.	1.1	84
9	High diversity in species, reproductive modes and distribution within the Paramacrobiotus richtersi complex (Eutardigrada, Macrobiotidae). Zoological Letters, 2019, 5, 1.	1.3	84
10	Tardigrade Resistance to Space Effects: First Results of Experiments on the LIFE-TARSE Mission on FOTON-M3 (September 2007). Astrobiology, 2009, 9, 581-591.	3.0	81
11	Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotoidea and Echiniscoidea. Invertebrate Systematics, 2016, 30, 303.	1.3	79
12	Antioxidant defences in hydrated and desiccated states of the tardigrade Paramacrobiotus richtersi. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 156, 115-121.	1.6	78
13	DNA barcoding in Tardigrada: the first case study onMacrobiotus macrocalixÂBertolani & Rebecchi 1993 (Eutardigrada, Macrobiotidae). Molecular Ecology Resources, 2009, 9, 699-706.	4.8	75
14	Form and function of the feeding apparatus in Eutardigrada (Tardigrada). Zoomorphology, 2012, 131, 127-148.	0.8	69
15	Phylogenetic analysis of Macrobiotidae (Eutardigrada, Parachela): a combined morphological and molecular approach. Zoologica Scripta, 2005, 34, 235-244.	1.7	68
16	Ultraviolet radiation tolerance in hydrated and desiccated eutardigrades. Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 104-110.	1.4	67
17	Survival and DNA degradation in anhydrobiotic tardigrades. Journal of Experimental Biology, 2009, 212, 4033-4039.	1.7	66
18	A pest alien invasion in progress: potential pathways of origin of the brown marmorated stink bug Halyomorpha halys populations in Italy. Journal of Pest Science, 2015, 88, 1-7.	3.7	61

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19	The morphological and molecular analyses of a new South American urban tardigrade offer new insights on the biological meaning of theMacrobiotus hufelandigroup of species (Tardigrada:) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	33
20	Dynamics of Long-term Anhydrobiotic Survival of Lichen-dwelling Tardigrades. Hydrobiologia, 2006, 558, 23-30.	2.0	55
21	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. Planetary and Space Science, 2012, 74, 97-102.	1.7	54
22	Use of substrate-borne vibrational signals to attract the Brown Marmorated Stink Bug, Halyomorpha halys. Journal of Pest Science, 2017, 90, 1219-1229.	3.7	53
23	Genetic diversity and biogeography of the south polar water bear Acutuncus antarcticus (Eutardigrada : Hypsibiidae) â€“ evidence that it is a truly pan-Antarctic species. Invertebrate Systematics, 2016, 30, 635.	1.3	47
24	Morphological and molecular analyses onRichtersius(Eutardigrada) diversity reveal its new systematic position and lead to the establishment of a new genus and a new family within Macrobiotoidea. Zoological Journal of the Linnean Society, 2016, 178, 834-845.	2.3	44
25	NMR spectroscopy of single sub-nL ova with inductive ultra-compact single-chip probes. Scientific Reports, 2017, 7, 44670.	3.3	42
26	Genetic diversity of the brown marmorated stink bug Halyomorpha halys in the invaded territories of Europe and its patterns of diffusion in Italy. Biological Invasions, 2018, 20, 1073-1092.	2.4	42
27	Cuticle structure and systematics of the Macrobiotidae (Tardigrada, Eutardigrada). Acta Zoologica, 2001, 81, 27-36.	0.8	41
28	Integrative taxonomy allows the identification of synonymous species and the erection of a new genus of Echiniscidae (Tardigrada, Heterotardigrada). Zootaxa, 2013, 3613, 557-72.	0.5	37
29	Mopsechiniscus franciscae, a new species of a rare genus of Tardigrada from continental Antarctica. Polar Biology, 2014, 37, 1221-1233.	1.2	36
30	Survival of freezing by hydrated tardigrades inhabiting terrestrial and freshwater habitats. Zoology, 2011, 114, 123-128.	1.2	32
31	Resistance of the anhydrobiotic eutardigrade Paramacrobiotus richtersi to space flight (LIFEâ€“TARSE mission on FOTONâ€M3). Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 98-103.	1.4	31
32	Increasing knowledge of Antarctic biodiversity: new endemic taxa of tardigrades (Eutardigrada;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.2	31
33	Diapause in tardigrades: a study of factors involved in encystment. Journal of Experimental Biology, 2008, 211, 2296-2302.	1.7	30
34	Geonemy, ecology, reproductive biology and morphology of the tardigrade Hypsibius zetlandicus (Eutardigrada: Hypsibiidae) with erection of Borealibius gen. n.. Polar Biology, 2006, 29, 595-603.	1.2	29
35	The Microbial Community of Tardigrades: Environmental Influence and Species Specificity of Microbiome Structure and Composition. Microbial Ecology, 2018, 76, 467-481.	2.8	28
36	3D printed microchannels for sub-nL NMR spectroscopy. PLoS ONE, 2018, 13, e0192780.	2.5	28

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37	Stress response of a boreo-alpine species of tardigrade, Borealibius zetlandicus (Eutardigrada,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.1	26
38	Life history traits and reproductive mode of the tardigrade Acutuncus antarcticus under laboratory conditions: strategies to colonize the Antarctic environment. Hydrobiologia, 2015, 761, 277-291.	2.0	26
39	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
40	Molecular palaeontology illuminates the evolution of ecdysozoan vision. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, .	2.6	25
41	Production of reactive oxygen species and involvement of bioprotectants during anhydrobiosis in the tardigrade Paramacrobiotus spatialis. Scientific Reports, 2022, 12, 1938.	3.3	23
42	The Tardigrades of Emilia (Italy). III. Piane di Mocogno (Northern Apennines). Zoologischer Anzeiger, 2001, 240, 377-383.	0.9	22
43	Revision of the genus Pseudodiphascon (Tardigrada, Macrobiotidae), with the erection of three new genera. Journal of Natural History, 2003, 37, 1679-1690.	0.5	22
44	Tardigrada. , 2010, , 455-484.		22
45	BIOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. Microgravity Science and Technology, 2012, 24, 397-409.	1.4	22
46	Somatic musculature of Tardigrada: phylogenetic signal and metameric patterns. Zoological Journal of the Linnean Society, 2013, 169, 580-603.	2.3	22
47	An evolutionary line of the Macrobiotinae (Tardigrada, Macrobiotidae):Calcarobiotusand related species. Italian Journal of Zoology, 2001, 68, 229-233.	0.6	21
48	Attraction of Halyomorpha halys (Hemiptera: Pentatomidae) haplotypes in North America and Europe to baited traps. Scientific Reports, 2017, 7, 16941.	3.3	21
49	High level of phenotypic homoplasy amongst eutardigrades (Tardigrada) based on morphological and total evidence phylogenetic analyses. Zoological Journal of the Linnean Society, 2013, 169, 1-26.	2.3	20
50	Comparative analysis of the tardigrade feeding apparatus: adaptive convergence and evolutionary pattern of the piercing stylet system. Journal of Limnology, 2013, 72, .	1.1	20
51	Nature, Source and Function of Pigments in Tardigrades: In Vivo Raman Imaging of Carotenoids in Echiniscus blumi. PLoS ONE, 2012, 7, e50162.	2.5	20
52	Encystment Processes and the â€œMatrioshka-like Stageâ€•in a Moss-dwelling and in a Limnic Species of Eutardigrades (Tardigrada). Hydrobiologia, 2006, 558, 9-21.	2.0	19
53	Phylogenetic Relationships in the Macrobiotidae (Tardigrada: Eutardigrada: Parachela). Zoologischer Anzeiger, 2001, 240, 371-376.	0.9	18
54	Will the Antarctic tardigrade Acutuncus antarcticus be able to withstand environmental stresses due to global climate change?. Journal of Experimental Biology, 2018, 221, .	1.7	18

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55	Two new species of Tardigrada from moss cushions (Grimmia sp.) in a xerothermic habitat in northeast Tennessee (USA, North America), with the first identification of males in the genus Viridiscus. PeerJ, 2020, 8, e10251.	2.0	18
56	A new species of Tardigrada (Eutardigrada: Macrobiotidae) from Iberian Peninsula and Canary Islands (Spain). Zootaxa, 2005, 889, 1â€“11.	0.5	17
57	<p class="HeadingRunIn">Aquatic tardigrades in the Great Smoky Mountains National Park, North Carolina and Tennessee, U.S.A., with the description of a new species ofÂThulinius (Tardigrada, Isohypsibiidae)</p>. Zootaxa, 2014, 3764, 524.	0.5	17
58	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
59	Comparative phylogeography reveals consistently shallow genetic diversity in a mitochondrial marker in Antarctic bdelloid rotifers. Journal of Biogeography, 2021, 48, 1797-1809.	3.0	17
60	An integrated study of the biodiversity within the Pseudechiniscus suillusâ€“facettalis group (Heterotardigrada: Echiniscidae). Zoological Journal of the Linnean Society, 0, , .	2.3	16
61	Effects of Methyl Bromide Fumigation on Anhydrobiotic Micrometazoans. Ecotoxicology and Environmental Safety, 2001, 50, 72-75.	6.0	15
62	A DNA barcoding approach in the study of tardigrades. Journal of Limnology, 2013, 72, .	1.1	15
63	Space Flight Effects on Antioxidant Molecules in Dry Tardigrades: The TARDIKISS Experiment. BioMed Research International, 2015, 2015, 1-7.	1.9	15
64	What if the claws are reduced? Morphological and molecular phylogenetic relationships of the genusHaplomacrobiotusMay, 1948 (Eutardigrada, Parachela). Zoological Journal of the Linnean Society, 2016, 178, 819-827.	2.3	15
65	Genetic Diversity of Halyomorpha halys (Hemiptera, Pentatomidae) in Korea and Comparison with COI Sequence Datasets from East Asia, Europe, and North America. Florida Entomologist, 2018, 101, 49-54.	0.5	15
66	Further insights in the Tardigrada microbiome: phylogenetic position and prevalence of infection of four new Alphaproteobacteria putative endosymbionts. Zoological Journal of the Linnean Society, 2020, 188, 925-937.	2.3	15
67	A New Species of Freshwater Tardigrades from Disko Island (Greenland) Increases an Unsolved Paradox in Tardigrade Systematics. Hydrobiologia, 2006, 558, 69-79.	2.0	14
68	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
69	Tardigrades of Kristianstads Vattenrike Biosphere Reserve with description of four new species from Sweden. Scientific Reports, 2021, 11, 4861.	3.3	13
70	New taxonomic position of several Macrobiotus species Â(Eutardigrada: Macrobiotidae). Zootaxa, 2007, 1471, 61.	0.5	12
71	Interspecific relationships of tardigrades with bacteria, fungi and protozoans, with a focus on the phylogenetic position ofPyxidium tardigradum(Ciliophora). Zoological Journal of the Linnean Society, 2016, 178, 846-855.	2.3	12
72	When DNA sequence data and morphological results fit together: Phylogenetic position of Crenubiotus within Macrobiotoidea (Eutardigrada) with description of Crenubiotus ruhesteini sp. nov. Journal of Zoological Systematics and Evolutionary Research, 2021, 59, 576-587.	1.4	12

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73	Phylum Tardigrada. , 2020, , 505-522.		11
74	Energy allocation in two species of Eutardigrada. Journal of Limnology, 2007, 66, 111.	1.1	9
75	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
76	Multi-marker DNA metabarcoding reflects tardigrade diversity in different habitats. Genome, 2021, 64, 217-231.	2.0	9
77	Description of the new speciesCalcarobiotus(C.)longinoisp. nov. (Eutardigrada, Macrobiotidae) from Costa Rica with the diagnostic key to the genusCalcarobiotus. Italian Journal of Zoology, 2006, 73, 247-253.	0.6	8
78	Phylum Tardigrada DoyÃ¨re, 1840. In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. Zootaxa, 2011, 3148, 96.	0.5	8
79	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
80	Environmental Adaptations: Encystment and Cyclomorphosis. Zoological Monographs, 2018, , 249-271.	1.1	8
81	Tardigrade Taxa. Zoological Monographs, 2018, , 371-409.	1.1	8
82	Antioxidant Response during the Kinetics of Anhydrobiosis in Two Eutardigrade Species. Life, 2022, 12, 817.	2.4	8
83	A data set on the distribution of Rotifera in Antarctica. Biogeographia, 2019, 35, .	0.5	7
84	Morphology and taxonomy of the genus Ramazzottius (Eutardigrada; Ramazzottiidae) with the integrative description of Ramazzottius kretschmanni sp. nov. , 2022, 89, 346-370.		7
85	Observations on the â€œtenuisgroupâ€•(Eutardigrada, Macrobiotidae) and description of a newMacrobiotusspecies. Journal of Natural History, 2007, 41, 2741-2755.	0.5	6
86	Heat shock proteins in encysted and anhydrobiotic eutardigrades. Journal of Limnology, 2012, 71, 22.	1.1	6
87	Tardigrades of Sweden; an updated check-list. Zootaxa, 2015, 3981, 491.	0.5	6
88	Paleontology and Molecular Dating. Zoological Monographs, 2018, , 131-143.	1.1	6
89	The species identification problem in mirids (Hemiptera: Heteroptera) highlighted by DNA barcoding and species delimitation studies. , 2020, 87, 310-324.		6
90	Life-history traits and description of the new gonochoric amphimictic Mesobiotus joenssoni (Eutardigrada: Macrobiotidae) from the island of Elba, Italy. Zoological Journal of the Linnean Society, 2019, , .	2.3	5

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91	Molecular phylogenetics, speciation, and long distance dispersal in tardigrade evolution: A case study of the genus Milnesium. Molecular Phylogenetics and Evolution, 2022, 169, 107401.	2.7	5
92	Superoxide Anion Radical Production in the Tardigrade Paramacrobiotus richtersi, the First Electron Paramagnetic Resonance Spin-Trapping Study. Physiological and Biochemical Zoology, 2015, 88, 451-454.	1.5	4
93	Fantastic animals as an experimental model to teach animal adaptation. BMC Evolutionary Biology, 2007, 7, S13.	3.2	3
94	Corrigendum to: Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotoidea and Echiniscoidea. Invertebrate Systematics, 2016, 30, 521.	1.3	3
95	Phylum Tardigrada. , 2016, , 277-290.		3
96	Microhabitats, macro-differences: a survey of temperature records in Victoria Land terrestrial and freshwater environments. Antarctic Science, 2022, 34, 256-265.	0.9	3
97	Tardigradi dellâ€™Appennino umbro-marchigiano. Biogeographia, 1994, 17, .	0.5	2
98	The toughest animals of the Earth versus global warming: Effects of longâ€term experimental warming on tardigrade community structure of a temperate deciduous forest. Ecology and Evolution, 2021, 11, 9856-9863.	1.9	2
99	Identification of predatory arthropods of the invasive Halyomorpha halys through molecular gut content analysis. Agricultural and Forest Entomology, 2022, 24, 219-228.	1.3	1
100	The morphological diversity within a species can obscure the correct identification. Zoologischer Anzeiger, 2022, , .	0.9	1
101	Hsp levels and DNA integrity in anhydrobiotic tardigrades. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 151, S32.	1.8	0
102	Contributors to Volume II. , 2016, , xi-xiii.		0
103	CMOS and 3D Printing for NMR Spectroscopy at the Single Embryo Scale. Chimia, 2019, 73, 635.	0.6	0
104	Phylum Tardigrada. , 2019, , 533-548.		0