Maria da Luz Mathias

List of Publications by Year
in descending order

88 papers	1,877 citations	279798 23 h-index	302126 39 g-index
90 all docs	90 docs citations	90 times ranked	1879 citing authors

#	Article	IF	Citations
1	Molecular phylogeny of the speciose vole genus Microtus (Arvicolinae, Rodentia) inferred from mitochondrial DNA sequences. Molecular Phylogenetics and Evolution, 2004, 33, 647-663.	2.7	283
2	Rapid chromosomal evolution in island mice. Nature, 2000, 403, 158-158.	27.8	146
3	Response of antioxidant enzymes in freshwater fish populations (Leuciscus alburnoides complex) to inorganic pollutants exposure. Science of the Total Environment, 2001, 280, 153-163.	8.0	137
4	R2d2Drives Selfish Sweeps in the House Mouse. Molecular Biology and Evolution, 2016, 33, 1381-1395.	8.9	55
5	Molecular studies on the colonization of the Madeiran archipelago by house mice. Molecular Ecology, 2001, 10, 2023-2029.	3.9	52
6	Induction of micronuclei and sister chromatid exchange in bone-marrow cells and abnormalities in sperm of Algerian mice (Mus spretus) exposed to cadmium, lead and zinc. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 678, 59-64.	1.7	52
7	Of Mice and â€˜Convictsâ€™: Origin of the Australian House Mouse, Mus musculus. PLoS ONE, 2011, 6, e28622.	2.5	48
8	Chromosomal phylogeny of Robertsonian races of the house mouse on the island of Madeira: testing between alternative mutational processes. Genetical Research, 2005, 86, 171-183.	0.9	46
9	Morphological and haematological parameters in the Algerian mouse (Mus spretus) inhabiting an area contaminated with heavy metals. Environmental Pollution, 2001, 113, 87-93.	7.5	44
10	Metal bioaccumulation in the greater white-toothed shrew, Crocidura russula, inhabiting an abandoned pyrite mine site. Chemosphere, 2007, 67, 121-130.	8.2	43
11	Molecular insights into the colonization and chromosomal diversification of Madeiran house mice. Molecular Ecology, 2009, 18, 4477-4494.	3.9	43
12	Phylogeny and adaptation shape the teeth of insular mice. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152820.	2.6	35
13	The non-random occurrence of Robertsonian fusion in the house mouse. Genetical Research, 2003, 81, 33-42.	0.9	34
14	Deep mitochondrial introgression and hybridization among ecologically divergent vole species. Molecular Ecology, 2012, 21, 5309-5323.	3.9	33
15	Rodents and Leptospira transmission risk in Terceira island (Azores). European Journal of Epidemiology, 2000, 16, 1151-1157.	5.7	32
16	Patterns of genic diversity and structure in a species undergoing rapid chromosomal radiation: an allozyme analysis of house mice from the Madeira archipelago. Heredity, 2007, 99, 432-442.	2.6	32
17	Hepatic elemental contents and antioxidant enzyme activities in Algerian mice (Mus spretus) inhabiting a mine area in central Portugal. Science of the Total Environment, 2003, 311, 101-109.	8.0	31
18	Fertility assessment in hybrids between monobrachially homologous Rb races of the house mouse from the island of Madeira: implications for modes of chromosomal evolution. Heredity, 2011, 106, 348-356.	2.6	31

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19	Haematology, genotoxicity, enzymatic activity and histopathology as biomarkers of metal pollution in the shrew Crocidura russula. Environmental Pollution, 2008, 156, 1332-1339.	7.5	30
20	Developmental Instability in a Riparian Population of the Algerian Mouse(Mus spretus) Associated with a Heavy Metalâ€“Polluted Area in Central Portugal. Archives of Environmental Contamination and Toxicology, 2001, 41, 515-521.	4.1	28
21	Of mice and the â€˜Age of Discoveryâ€™: the complex history of colonization of the <scp>A</scp>zorean archipelago by the house mouse (<scp>M</scp>us musculus) as revealed by mitochondrial <scp>DNA</scp> variation. Journal of Evolutionary Biology, 2015, 28, 130-145.	1.7	28
22	Indicators for Management of Urban Biodiversity and Ecosystem Services: City Biodiversity Index. , 2013, , 699-718.		27
23	First epidemiological data on pathogenic leptospires isolated on the Azorean islands. European Journal of Epidemiology, 1997, 13, 435-441.	5.7	26
24	Influence of Age, Sex, and Sexual Activity on Trace Element Levels and Antioxidant Enzyme Activities in Field Mice (Apodemus sylvaticus and Mus spretus). Biological Trace Element Research, 2002, 85, 227-239.	3.5	25
25	Metallothionein levels in Algerian mice (Mus spretus) exposed to elemental pollution: An ecophysiological approach. Chemosphere, 2008, 71, 1340-1347.	8.2	24
26	Behavioural and physiological responses of wood mice (Apodemus sylvaticus) to experimental manipulations of predation and starvation risk. Physiology and Behavior, 2015, 149, 331-339.	2.1	24
27	Environmental determinants of the distribution of the Cabrera vole (Microtus cabrerae) in Portugal: Implications for conservation. Mammalian Biology, 2008, 73, 102-110.	1.5	22
28	An Assessment of Time-Dependent Effects of Lead Exposure in Algerian Mice (Mus spretus) Using Different Methodological Approaches. Biological Trace Element Research, 2006, 109, 075-090.	3.5	21
29	Vegetation analysis in colonies of an endangered rodent, the Cabrera vole (Microtus cabrerae), in southern Portugal. Ecological Research, 2006, 21, 197-207.	1.5	21
30	How does the greater white-toothed shrew, Crocidura russula, responds to long-term heavy metal contamination? â€” A case study. Science of the Total Environment, 2007, 376, 128-133.	8.0	21
31	Origin of the chromosomal radiation of Madeiran house mice: a microsatellite analysis of metacentric chromosomes. Heredity, 2013, 110, 380-388.	2.6	20
32	Influence of physical environmental characteristics and anthropogenic factors on the position and structure of a contact zone between two chromosomal races of the house mouse on the island of Madeira (North Atlantic, Portugal). Journal of Biogeography, 2005, 32, 2123-2134.	3.0	18
33	Metabolism and thermoregulation in the Cabrera vole (Rodentia: Microtus cabrerae). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 136, 441-446.	1.8	17
34	Factors influencing large-scale distribution of two sister species of pine voles (Microtus lusitanicus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Zoology, 2009, 87, 1227-1240.	1.0	17
35	PRDM9 Diversity at Fine Geographical Scale Reveals Contrasting Evolutionary Patterns and Functional Constraints in Natural Populations of House Mice. Molecular Biology and Evolution, 2019, 36, 1686-1700.	8.9	17
36	Population effects of heavy metal pollution in wild Algerian mice (Mus spretus). Ecotoxicology and Environmental Safety, 2019, 171, 414-424.	6.0	16

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37	Adaptive energetics in house mice, Mus musculus domesticus, from the island of Porto Santo (Madeira) Tj ETQq1 1 0.784314 rgBT /Ove Integrative Physiology, 2004, 137, 703-709.	1.8	15
38	Post-fire recolonisation of a montado area by the endangered Cabrera vole (Microtus cabrerae). International Journal of Wildland Fire, 2007, 16, 450.	2.4	14
39	Predation risk modulates dietâ€induced obesity in male <scp>C</scp>57<scp>BL</scp>/6 mice. Obesity, 2015, 23, 2059-2065.	3.0	13
40	Living on the Edge: Can Eurasian Red Squirrels (Sciurus vulgaris) Persist in Extreme High-elevation Habitats?. Arctic, Antarctic, and Alpine Research, 2010, 42, 106-112.	1.1	11
41	Phenotypic flexibility in the energetic strategy of the greater white-toothed shrew, Crocidura russula. Journal of Thermal Biology, 2016, 56, 10-17.	2.5	11
42	Morphology of the incisors and the burrowing activity of Mediterranean and Lusitanian pine voles (Mammalia, Rodentia). Mammalia, 1990, 54, .	0.7	10
43	AgNOR variability among Robertsonian races of the house mouse from the island of Madeira: implications for patterns of Rb fusion formation and genetic differentiation. Biological Journal of the Linnean Society, 2005, 84, 585-591.	1.6	10
44	Is habitat selection by the Cabrera vole (Microtus cabrerae) related to food preferences?. Mammalian Biology, 2008, 73, 423-429.	1.5	10
45	Genetic structure of house mouse (Mus musculusLinnaeus 1758) populations in the Atlantic archipelago of the Azores: colonization and dispersal. Biological Journal of the Linnean Society, 2013, 108, 929-940.	1.6	10
46	The terrestrial mammals of Mozambique: Integrating dispersed biodiversity data. Bothalia, 2018, 48, .	0.3	10
47	Effects of climate on oxygen consumption and energy intake of chromosomally divergent populations of the House Mouse (Mus musculus domesticus) from the island of Madeira (North Atlantic,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	9
48	Using presence signs to discriminate between similar species. Integrative Zoology, 2009, 4, 258-264.	2.6	9
49	Microtus agrestis (Rodentia: Cricetidae). Mammalian Species, 2017, 49, 23-39.	0.7	9
50	Odor preference in house mice: influences of habitat heterogeneity and chromosomal incompatibility. Behavioral Ecology, 2009, 20, 1252-1261.	2.2	8
51	Local coexistence and niche differences between the Lusitanian and Mediterranean pine voles (Microtus lusitanicus and M. duodecimcostatus). Ecological Research, 2010, 25, 1019-1031.	1.5	8
52	Spatial and temporal ecology of the Lusitanian pine vole (Microtus lusitanicus) in a Mediterranean polyculture. Animal Biology, 2010, 60, 209-227.	1.0	8
53	Geno- and Cyto-toxicity in Free-Living Rodent Mus spretus Exposed to Simulated Onshore Oil Spill. Bulletin of Environmental Contamination and Toxicology, 2013, 91, 465-468.	2.7	8
54	Metabolic and behavioral adaptations of greater white-toothed shrews to urban conditions. Behavioral Ecology, 2020, 31, 1334-1343.	2.2	8

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55	Individual behavior, behavioral stability, and pace of life within and among five shrew species. Behavioral Ecology and Sociobiology, 2020, 74, 1.	1.4	8
56	RevisiÃ³n a nivel ibÃ©rico de la distribuciÃ³n del topillo de Cabrera o iberÃ³n, Iberomys cabrerae (Thomas,) Tj ETQq0 0 0 rgBT /Overlock	0.2	8
57	On the origin and colonization of house mice in the Madeira Islands. Biological Journal of the Linnean Society, 1992, 46, 13-24.	1.6	7
58	The influence of local, landscape and spatial factors on the distribution of the Lusitanian and the Mediterranean pine voles in a Mediterranean landscape. Mammalian Biology, 2011, 76, 133-142.	1.5	7
59	The role of competition in driving species global distributions: Soricid shrews as a case study. Journal of Biogeography, 2019, 46, 134-144.	3.0	7
60	Distribution of alien tetrapods in the Iberian Peninsula. NeoBiota, 0, 64, 1-21.	1.0	7
61	Urban populations of shrews show larger behavioural differences among individuals than rural populations. Animal Behaviour, 2022, 187, 35-46.	1.9	7
62	Mapping Knowledge Gaps of Mozambiqueâ€™s Terrestrial Mammals. Scientific Reports, 2019, 9, 18184.	3.3	6
63	Pair-bonding behaviour of the sister species Microtus lusitanicus and M. duodecimcostatus. Journal of Ethology, 2015, 33, 213-223.	0.8	5
64	Energetics and thermal adaptation in semifossorial pine-voles Microtus lusitanicus and Microtus duodecimcostatus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 309-318.	1.5	5
65	Multimarker approach to assess the exposure of the wild rodent Calomys laucha to a simulated crude oil spill. Environmental Science and Pollution Research, 2021, 28, 2236-2244.	5.3	5
66	Do chromosomal hybrids necessarily suffer from developmental instability?. Biological Journal of the Linnean Society, 2006, 88, 33-43.	1.6	4
67	Detection of Antibodies AgainstAnaplasma phagocytophilumin Algerian Mice (Mus) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.5	4
68	Ecological release: swimming and diving behavior of an allopatric population of the Mediterranean water shrew. Journal of Mammalogy, 2013, 94, 29-39.	1.3	4
69	Reproductive isolation between sister species of Iberian pine voles,Microtus duodecimcostatusandM. lusitanicus. Ethology Ecology and Evolution, 2019, 31, 121-139.	1.4	4
70	p53 gene discriminates two ecologically divergent sister species of pine voles. Heredity, 2015, 115, 444-451.	2.6	3
71	Mus spretus as an environmental sentinel: A review of 17 years (1998â€“2015) of research in Mediterranean Europe. Ecological Indicators, 2017, 73, 61-67.	6.3	3
72	Spatial and Temporal Dynamics of Contact Zones Between Chromosomal Races of House Mice, Mus musculus domesticus, on Madeira Island. Genes, 2020, 11, 748.	2.4	3

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73	Effects of predation risk on the body mass regulation of growing wood mice. Journal of Zoology, 2020, 312, 122-132.	1.7	3
74	Behavioral responses of rural and urban greater white-toothed shrews (Crocidura russula) to sound disturbance. Urban Ecosystems, 2021, 24, 851-862.	2.4	3
75	Residues of DDT and other organochlorines in small mammals from Central Portugal. Mammalia, 2007, 71, .	0.7	2
76	Evidence of micro-evolution in Crocidura russula from two abandoned heavy metal mines: potential use of Cytb, CYP1A1, and p53 as gene biomarkers. Ecotoxicology, 2021, 30, 1969-1982.	2.4	2
77	Differential Impact of Forest Fragmentation on Fluctuating Asymmetry in South Amazonian Small Mammals. Symmetry, 2022, 14, 981.	2.2	2
78	Arvicola terrestris monticola de SÃ©lys-Longchamps, 1838 new to Portugal (Rodentia, Arvicolidae). Mammalia, 1988, 52, .	0.7	1
79	Olfactory receptors and behavioural isolation: a study on Microtus voles. Mammal Research, 2016, 61, 399-407.	1.3	1
80	Social thermoregulation in Mediterranean greater white-toothed shrews (Crocidura russula). Behavioral Ecology and Sociobiology, 2021, 75, 1.	1.4	1
81	New data on allele frequencies of coat phenotypes of cats from Madeira and Azores islands (North) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	1
82	MAMMALS IN PORTUGAL : A data set of terrestrial, volant, and marine mammal occurrences in Portugal. Ecology, 2022, , e3654.	3.2	1
83	Genotoxic Effect of Inhaled Ambient Particulate Matter. Microscopy and Microanalysis, 2012, 18, 25-26.	0.4	0
84	Variation and Selection in the Putative Sperm-Binding Region of ZP3 in Muroid Rodents: A Comparison between Cricetids and Murines. Genes, 2021, 12, 1450.	2.4	0
85	Mapping the Impact of Digitisation for Poorly Documented Countries: Mozambique as a case study. Biodiversity Information Science and Standards, 0, 3, .	0.0	0
86	Sharing the Decision Process Framework to Identify Well-supported Records of Mammal Species-occurrence in Mozambique. Biodiversity Information Science and Standards, 0, 3, .	0.0	0
87	Genetic variation at the p53 locus of two ecologically divergent Microtus pine voles: identification of molecular markers for species assignment. Integrative Zoology, 2021, , .	2.6	0
88	Dissimilar use of an external heat source for thermoregulation by shrews from different geographic regions. Journal of Thermal Biology, 2022, 104, 103193.	2.5	0