

# Maria Elena Miletto Petrazzini

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4887320/publications.pdf>

Version: 2024-02-01

60  
papers

1,238  
citations

361413

20  
h-index

434195

31  
g-index

63  
all docs

63  
docs citations

63  
times ranked

568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guppies discriminate between two quantities of food items but prioritize item size over total amount. <i>Animal Behaviour</i> , 2015, 107, 183-191.	1.9	77
2	Inter-Specific Differences in Numerical Abilities Among Teleost Fish. <i>Frontiers in Psychology</i> , 2012, 3, 483.	2.1	65
3	Honeybees use absolute rather than relative numerosity in number discrimination. <i>Biology Letters</i> , 2019, 15, 20190138.	2.3	55
4	Numerical abilities in fish: A methodological review. <i>Behavioural Processes</i> , 2017, 141, 161-171.	1.1	53
5	What counts for dogs ( <i>Canis lupus familiaris</i> ) in a quantity discrimination task?. <i>Behavioural Processes</i> , 2016, 122, 90-97.	1.1	51
6	Development and application of a new method to investigate cognition in newborn guppies. <i>Behavioural Brain Research</i> , 2012, 233, 443-449.	2.2	50
7	Large Number Discrimination in Newborn Fish. <i>PLoS ONE</i> , 2013, 8, e62466.	2.5	45
8	Use of ordinal information by fish. <i>Scientific Reports</i> , 2015, 5, 15497.	3.3	42
9	Numerical acuity of fish is improved in the presence of moving targets, but only in the subitizing range. <i>Animal Cognition</i> , 2014, 17, 307-316.	1.8	41
10	Brain and Behavioral Asymmetry: A Lesson From Fish. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 11.	1.7	41
11	A new training procedure for studying discrimination learning in fish. <i>Behavioural Brain Research</i> , 2012, 230, 343-348.	2.2	39
12	Quantitative abilities in a reptile ( <i>Podarcis sicula</i> ). <i>Biology Letters</i> , 2017, 13, 20160899.	2.3	37
13	Sex differences in discrimination reversal learning in the guppy. <i>Animal Cognition</i> , 2017, 20, 1081-1091.	1.8	36
14	Do Dogs ( <i>Canis lupus familiaris</i> ) Make Counterproductive Choices Because They Are Sensitive to Human Ostensive Cues?. <i>PLoS ONE</i> , 2012, 7, e35437.	2.5	34
15	Relative versus absolute numerical representation in fish: Can guppies represent 'fourness'. <i>Animal Cognition</i> , 2015, 18, 1007-1017.	1.8	32
16	Quantity Discrimination in Trained Lizards ( <i>Podarcis sicula</i> ). <i>Frontiers in Psychology</i> , 2018, 9, 274.	2.1	29
17	Do domestic dogs ( <i>Canis lupus familiaris</i> ) perceive the Delboeuf illusion?. <i>Animal Cognition</i> , 2017, 20, 427-434.	1.8	28
18	Moderate early life stress improves adult zebrafish ( <i>Danio rerio</i> ) working memory but does not affect social and anxiety-like responses. <i>Developmental Psychobiology</i> , 2021, 63, 54-64.	1.6	27

#	ARTICLE	IF	CITATIONS
19	Do humans ( <i>Homo sapiens</i> ) and fish ( <i>Pterophyllum scalare</i> ) make similar numerosity judgments? <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2016, 130, 380-390.	0.5	27
20	Ontogeny of the capacity to compare discrete quantities in fish. <i>Developmental Psychobiology</i> , 2014, 56, 529-536.	1.6	25
21	Collective enhancement of numerical acuity by meritocratic leadership in fish. <i>Scientific Reports</i> , 2014, 4, 4560.	3.3	21
22	The Importance of Replication in Comparative Psychology: The Lesson of Elephant Quantity Judgments. <i>Frontiers in Psychology</i> , 2012, 3, 181.	2.1	20
23	Guppies, <i>Poecilia reticulata</i> , perceive a reversed Delboeuf illusion. <i>Animal Cognition</i> , 2019, 22, 291-303.	1.8	20
24	Motion Illusions as Environmental Enrichment for Zoo Animals: A Preliminary Investigation on Lions ( <i>Panthera leo</i> ). <i>Frontiers in Psychology</i> , 2019, 10, 2220.	2.1	20
25	Can reptiles perceive visual illusions? Delboeuf illusion in red-footed tortoise ( <i>Chelonoidis</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.5	20
26	Illusory patterns are fishy for fish, too. <i>Frontiers in Neural Circuits</i> , 2013, 7, 137.	2.8	18
27	Exploring the solitaire illusion in guppies ( <i>Poecilia reticulata</i> ).. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2018, 132, 48-57.	0.5	18
28	Quantity discrimination in canids: Dogs ( <i>Canis familiaris</i> ) and wolves ( <i>Canis lupus</i> ) compared. <i>Behavioural Processes</i> , 2017, 144, 89-92.	1.1	17
29	Preliminary study to investigate the Delboeuf illusion in ring-tailed lemurs ( <i>Lemur catta</i> ): Methodological Challenges. <i>Animal Behavior and Cognition</i> , 2017, 4, 365-377.	1.0	17
30	Food quantity discrimination in puppies ( <i>Canis lupus familiaris</i> ). <i>Animal Cognition</i> , 2020, 23, 703-710.	1.8	16
31	Whole brain functional recordings at cellular resolution in zebrafish larvae with 3D scanning multiphoton microscopy. <i>Scientific Reports</i> , 2021, 11, 11048.	3.3	16
32	Brightness illusion in the guppy ( <i>Poecilia reticulata</i> ).. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2016, 130, 55-61.	0.5	15
33	Stimulus characteristics, learning bias and visual discrimination in zebrafish ( <i>Danio rerio</i> ). <i>Behavioural Processes</i> , 2021, 192, 104499.	1.1	15
34	Everything is subjective under water surface, too: visual illusions in fish. <i>Animal Cognition</i> , 2020, 23, 251-264.	1.8	14
35	Trained Quantity Abilities in Horses ( <i>Equus caballus</i> ): A Preliminary Investigation. <i>Behavioral Sciences</i> (Basel, Switzerland), 2014, 4, 213-225.	2.1	12
36	The Impact of Brain Lateralization and Anxiety-Like Behaviour in an Extensive Operant Conditioning Task in Zebrafish ( <i>Danio rerio</i> ). <i>Symmetry</i> , 2019, 11, 1395.	2.2	11

#	ARTICLE	IF	CITATIONS
37	The ontogeny of continuous quantity discrimination in zebrafish larvae ( <i>Danio rerio</i> ). <i>Animal Cognition</i> , 2020, 23, 731-739.	1.8	10
38	Glimpse of ATOM in non-human species?. <i>Frontiers in Psychology</i> , 2013, 4, 460.	2.1	9
39	Characterizing ontogeny of quantity discrimination in zebrafish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212544.	2.6	9
40	Quantity as a Fish Views It: Behavior and Neurobiology. <i>Frontiers in Neuroanatomy</i> , 0, 16, .	1.7	9
41	Turning to the larger shoal: are there individual differences in small- and large-quantity discrimination of guppies?. <i>Ethology Ecology and Evolution</i> , 2015, , 1-10.	1.4	8
42	Application of an abstract concept across magnitude dimensions by fish. <i>Scientific Reports</i> , 2020, 10, 16935.	3.3	8
43	Size discrimination in adult zebrafish ( <i>Danio rerio</i> ): Normative data and individual variation. <i>Scientific Reports</i> , 2020, 10, 1164.	3.3	7
44	Stress reactivity elicits a tissue-specific reduction in telomere length in aging zebrafish ( <i>Danio rerio</i> ). <i>Scientific Reports</i> , 2021, 11, 339.	3.3	7
45	Learning by Doing: The Use of Distance, Corners and Length in Rewarded Geometric Tasks by Zebrafish ( <i>Danio rerio</i> ). <i>Animals</i> , 2021, 11, 2001.	2.3	7
46	Visual discrimination and amodal completion in zebrafish. <i>PLoS ONE</i> , 2022, 17, e0264127.	2.5	7
47	At the Root of Math. <i>Advances in Mathematical Cognition and Learning</i> , 2015, 1, 3-33.	0.5	6
48	Number Versus Continuous Quantities in Lower Vertebrates. , 2016, , 149-174.		6
49	Does Brain Lateralization Affect the Performance in Binary Choice Tasks? A Study in the Animal Model <i>Danio rerio</i> . <i>Symmetry</i> , 2020, 12, 1294.	2.2	6
50	Anisotropy of perceived numerosity: Evidence for a horizontalâ€vertical numerosity illusion. <i>Acta Psychologica</i> , 2020, 205, 103053.	1.5	6
51	The Challenge of Illusory Perception of Animals: The Impact of Methodological Variability in Cross-Species Investigation. <i>Animals</i> , 2021, 11, 1618.	2.3	6
52	Susceptibility to Size Visual Illusions in a Non-Primate Mammal ( <i>Equus caballus</i> ). <i>Animals</i> , 2020, 10, 1673.	2.3	4
53	Forest before the trees in the aquatic world: global and local processing in teleost fishes. <i>PeerJ</i> , 2020, 8, e9871.	2.0	4
54	Exploring the MÃ¼ller-Lyer illusion in a nonavian reptile ( <i>Pogona vitticeps</i> ).. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2020, 134, 391-400.	0.5	4

#	ARTICLE	IF	CITATIONS
55	Red-footed tortoises ( <i>Chelonoidis carbonaria</i> ) do not perceive the Delboeuf illusion.. Canadian Journal of Experimental Psychology, 2020, 74, 201-206.	0.8	3
56	Searching for the Critical p of Macphail's Null Hypothesis: The Contribution of Numerical Abilities of Fish. Frontiers in Psychology, 2020, 11, 55.	2.1	2
57	Numerical Competence in Fish. , 2021, , 580-601.		2
58	Anisotropy of perceived space in non-primates? The horizontal-vertical illusion in bearded dragons ( <i>Pogona vitticeps</i> ) and red-footed tortoises ( <i>Chelonoidis carbonaria</i> ). Behavioural Processes, 2020, 176, 104117.	1.1	1
59	Illusional Perspective across Humans and Bees. Vision (Switzerland), 2022, 6, 28.	1.2	1
60	Are cerebral and behavioural lateralization related to anxiety-like traits in the animal model zebrafish ( <i>Danio rerio</i> )?. Laterality, 2021, 26, 144-162.	1.0	0