

# Wim Fias

## List of Publications by Year in descending order

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153  
papers

9,311  
citations

29994

54  
h-index

42291

92  
g-index

159  
all docs

159  
docs citations

159  
times ranked

5620  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Importance of Magnitude Information in Numerical Processing: Evidence from the SNARC Effect. <i>Mathematical Cognition</i> , 1996, 2, 95-110.	0.4	436
2	Representation of Number in Animals and Humans: A Neural Model. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 1493-1504.	1.1	432
3	Post-error slowing: An orienting account. <i>Cognition</i> , 2009, 111, 275-279.	1.1	429
4	Parietal Representation of Symbolic and Nonsymbolic Magnitude. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 47-56.	1.1	382
5	The mental representation of ordinal sequences is spatially organized. <i>Cognition</i> , 2003, 87, B87-B95.	1.1	371
6	A working memory account for spatialâ€“numerical associations. <i>Cognition</i> , 2011, 119, 114-119.	1.1	322
7	Numbers and space: A computational model of the SNARC effect.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2006, 32, 32-44.	0.7	264
8	Brain networks under attack: robustness properties and the impact of lesions. <i>Brain</i> , 2016, 139, 3063-3083.	3.7	244
9	Irrelevant digits affect feature-based attention depending on the overlap of neural circuits. <i>Cognitive Brain Research</i> , 2001, 12, 415-423.	3.3	195
10	Automatic response activation of implicit spatial information: Evidence from the SNARC effect. <i>Acta Psychologica</i> , 2006, 122, 221-233.	0.7	195
11	A model of exact small-number representation. <i>Psychonomic Bulletin and Review</i> , 2005, 12, 66-80.	1.4	181
12	Physical activity to improve cognition in older adults: can physical activity programs enriched with cognitive challenges enhance the effects? A systematic review and meta-analysis. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2018, 15, 63.	2.0	181
13	Processing of Abstract Ordinal Knowledge in the Horizontal Segment of the Intraparietal Sulcus. <i>Journal of Neuroscience</i> , 2007, 27, 8952-8956.	1.7	160
14	Verbal-spatial and visuospatial coding of numberâ€“space interactions.. <i>Journal of Experimental Psychology: General</i> , 2010, 139, 180-190.	1.5	150
15	Overlapping Neural Systems Represent Cognitive Effort and Reward Anticipation. <i>PLoS ONE</i> , 2014, 9, e91008.	1.1	145
16	The Mental Representation of Ordinal Sequences is Spatially Organised: Evidence from Days of the Week. <i>Cortex</i> , 2004, 40, 171-172.	1.1	144
17	The Commonality of Neural Networks for Verbal and Visual Short-term Memory. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2570-2593.	1.1	142
18	Two routes for the processing of verbal numbers: evidence from the SNARC effect. <i>Psychological Research</i> , 2001, 65, 250-259.	1.0	140

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19	Numbers are associated with different types of spatial information depending on the task. <i>Cognition</i> , 2009, 113, 248-253.	1.1	127
20	Priming reveals differential coding of symbolic and non-symbolic quantities. <i>Cognition</i> , 2007, 105, 380-394.	1.1	125
21	Common and distinct brain regions in both parietal and frontal cortex support symbolic and nonsymbolic number processing in humans: A functional neuroimaging meta-analysis. <i>NeuroImage</i> , 2017, 146, 376-394.	2.1	122
22	Oculomotor Bias Induced by Number Perception. <i>Experimental Psychology</i> , 2004, 51, 91-97.	0.3	120
23	Interacting neighbors: A connectionist model of retrieval in single-digit multiplication. <i>Memory and Cognition</i> , 2005, 33, 1-16.	0.9	119
24	Further Evidence that the SNARC Effect is Processed Along a Dual-Route Architecture. <i>Experimental Psychology</i> , 2006, 53, 58-68.	0.3	116
25	The Whorfian hypothesis and numerical cognition: is 'twenty-four' processed in the same way as 'four-and-twenty'? <i>Cognition</i> , 1998, 66, 51-77.	1.1	115
26	Spatial Attention Interacts With Serial-Order Retrieval From Verbal Working Memory. <i>Psychological Science</i> , 2013, 24, 1854-1859.	1.8	112
27	Spontaneous and intentional trait inferences recruit a common mentalizing network to a different degree: Spontaneous inferences activate only its core areas. <i>Social Neuroscience</i> , 2011, 6, 123-138.	0.7	110
28	Outcome expectancy and not accuracy determines posterror slowing: ERP support. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2010, 10, 270-278.	1.0	108
29	Number Processing Pathways in Human Parietal Cortex. <i>Cerebral Cortex</i> , 2010, 20, 77-88.	1.6	108
30	Multiple components of developmental dyscalculia. <i>Trends in Neuroscience and Education</i> , 2013, 2, 43-47.	1.5	108
31	Semantic priming in number naming. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2002, 55, 1127-1139.	2.3	105
32	Hippocampal contribution to early and later stages of implicit motor sequence learning. <i>Experimental Brain Research</i> , 2010, 202, 795-807.	0.7	101
33	Naming two-digit Arabic numerals: Evidence from masked priming studies.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2005, 31, 1150-1163.	0.7	97
34	Are numbers grounded in a general magnitude processing system? A functional neuroimaging meta-analysis. <i>Neuropsychologia</i> , 2017, 105, 50-69.	0.7	94
35	Finding the answer in space: the mental whiteboard hypothesis on serial order in working memory. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 932.	1.0	90
36	A Working Memory Account of the Interaction between Numbers and Spatial Attention. <i>Quarterly Journal of Experimental Psychology</i> , 2014, 67, 1500-1513.	0.6	88

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37	Inconsistencies in spontaneous and intentional trait inferences. <i>Social Cognitive and Affective Neuroscience</i> , 2012, 7, 937-950.	1.5	84
38	Impaired visuo-motor sequence learning in Developmental Coordination Disorder. <i>Research in Developmental Disabilities</i> , 2011, 32, 749-756.	1.2	81
39	A hippocampalâ€“parietal network for learning an ordered sequence. <i>NeuroImage</i> , 2008, 40, 333-341.	2.1	78
40	Attention Supports Verbal Short-Term Memory via Competition between Dorsal and Ventral Attention Networks. <i>Cerebral Cortex</i> , 2012, 22, 1086-1097.	1.6	72
41	Semantic interference effects on naming using a postcue procedure: Tapping the links between semantics and phonology with pictures and words.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1995, 21, 961-980.	0.7	69
42	The neural representation of extensively trained ordered sequences. <i>NeuroImage</i> , 2009, 47, 367-375.	2.1	68
43	Towards a common processing architecture underlying Simon and SNARC effects. <i>European Journal of Cognitive Psychology</i> , 2005, 17, 659-673.	1.3	65
44	About the influence of the presentation format on arithmetical-fact retrieval processes. <i>Cognition</i> , 1997, 63, 335-374.	1.1	64
45	How Does Working Memory Enable Number-Induced Spatial Biases?. <i>Frontiers in Psychology</i> , 2016, 7, 977.	1.1	64
46	Shared spatial representations for numbers and space: The reversal of the SNARC and the Simon effects.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2006, 32, 1197-1207.	0.7	61
47	Dissociating contributions of ACC and vmPFC in reward prediction, outcome, and choice. <i>Neuropsychologia</i> , 2014, 59, 112-123.	0.7	60
48	Are Arabic numerals processed as pictures in a Stroop interference task?. <i>Psychological Research</i> , 2001, 65, 242-249.	1.0	59
49	Anticipatory processes in brain state switching â€” Evidence from a novel cued-switching task implicating default mode and salience networks. <i>NeuroImage</i> , 2014, 98, 359-365.	2.1	59
50	Distinct representations of numerical and non-numerical order in the human intraparietal sulcus revealed by multivariate pattern recognition. <i>NeuroImage</i> , 2011, 56, 674-680.	2.1	57
51	Is developmental coordination disorder a motor imagery deficit?. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2009, 31, 720-730.	0.8	56
52	Stages of Nonsymbolic Number Processing in Occipitoparietal Cortex Disentangled by fMRI Adaptation. <i>Journal of Neuroscience</i> , 2011, 31, 7168-7173.	1.7	55
53	The impact of verbal working memory on numberâ€“space associations.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2014, 40, 976-986.	0.7	55
54	How is Number Associated with Space? The Role of Working Memory. , 2011, , 133-148.		50

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55	The Neural Basis of Implicit Perceptual Sequence Learning. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 137.	1.0	49
56	The representation of multiplication facts: Developmental changes in the problem size, five, and tie effects. <i>Journal of Experimental Child Psychology</i> , 2006, 94, 43-56.	0.7	47
57	The Heterogeneous Nature of Numberâ€”Space Interactions. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 182.	1.0	47
58	Non-spatial neglect for the mental number line. <i>Neuropsychologia</i> , 2011, 49, 2570-2583.	0.7	46
59	Sixty-four or four-and-sixty? The influence of language and working memory on children's number transcoding. <i>Frontiers in Psychology</i> , 2014, 5, 313.	1.1	46
60	Traits are represented in the medial prefrontal cortex: an fMRI adaptation study. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1185-1192.	1.5	45
61	Common Neural Substrates for Ordinal Representation in Short-Term Memory, Numerical and Alphabetical Cognition. <i>PLoS ONE</i> , 2014, 9, e92049.	1.1	42
62	Single-Trial ERP Component Analysis Using a Spatiotemporal LCMV Beamformer. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 55-66.	2.5	42
63	The temporary nature of numberâ€”space interactions.. <i>Canadian Journal of Experimental Psychology</i> , 2016, 70, 33-40.	0.7	41
64	Errors and Conflict at the Task Level and the Response Level. <i>Journal of Neuroscience</i> , 2011, 31, 1366-1374.	1.7	40
65	Similarity and Rules United: Similarityâ€”and Ruleâ€”Based Processing in a Single Neural Network. <i>Cognitive Science</i> , 2009, 33, 243-259.	0.8	39
66	Picture novelty attenuates semantic interference and modulates concomitant neural activity in the anterior cingulate cortex and the locus coeruleus. <i>NeuroImage</i> , 2013, 74, 179-187.	2.1	39
67	Passive hand movements disrupt adultsâ€™ counting strategies. <i>Frontiers in Psychology</i> , 2011, 2, 201.	1.1	38
68	The Quantitative Nature of a Visual Task Differentiates between Ventral and Dorsal Stream. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 646-658.	1.1	37
69	The internal anticipation of sensory action effects: when action induces FFA and PPA activity. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 54.	1.0	36
70	Grounding Verbal Working Memory: The Case of Serial Order. <i>Current Directions in Psychological Science</i> , 2017, 26, 429-433.	2.8	36
71	More than number sense: The additional role of executive functions and metacognition in arithmetic. <i>Journal of Experimental Child Psychology</i> , 2019, 182, 38-60.	0.7	36
72	How Images of the Brain can Constrain Cognitive Theory: the Case of Numerical Cognition. <i>Cortex</i> , 2006, 42, 406-410.	1.1	34

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73	Cross-lingual numerical distance priming with second-language number words in native- to third-language number word translation. Quarterly Journal of Experimental Psychology, 2008, 61, 1281-1290.	0.6	34
74	The development of the SNARC effect: Evidence for early verbal coding. Journal of Experimental Child Psychology, 2012, 111, 671-680.	0.7	34
75	Disentangling perceptual from motor implicit sequence learning with a serial color-matching task. Experimental Brain Research, 2009, 197, 163-174.	0.7	33
76	Brain correlates of subjective freedom of choice. Consciousness and Cognition, 2013, 22, 1271-1284.	0.8	33
77	Heuristic and analytic processes in propositional reasoning with negatives.. Journal of Experimental Psychology: Learning Memory and Cognition, 2000, 26, 1713-1734.	0.7	31
78	Saliency maps in parietal cortex: Imaging and computational modeling. NeuroImage, 2010, 52, 1005-1014.	2.1	29
79	Exploration of the mechanisms underlying the ISPC effect: Evidence from behavioral and neuroimaging data. Neuropsychologia, 2013, 51, 1040-1049.	0.7	29
80	Response-Related Potentials during Semantic Priming: The Effect of a Speeded Button Response Task on ERPs. PLoS ONE, 2014, 9, e87650.	1.1	29
81	Changing your mind before it is too late: The electrophysiological correlates of online error correction during response selection. Psychophysiology, 2014, 51, 746-760.	1.2	27
82	Serial Position Markers in Space: Visuospatial Priming of Serial Order Working Memory Retrieval. PLoS ONE, 2015, 10, e0116469.	1.1	27
83	Constructions of Neuroscience in Early Childhood Education. , 0, , .		27
84	Symbolic and Nonsymbolic Pathways of Number Processing. Philosophical Psychology, 2008, 21, 539-554.	0.5	22
85	Correlation between individual differences in striatal dopamine and in visual consciousness. Current Biology, 2014, 24, R265-R266.	1.8	22
86	A longitudinal study of children's performance on simple multiplication and division problems.. Developmental Psychology, 2009, 45, 1480-1496.	1.2	21
87	Metacognition across domains: Is the association between arithmetic and metacognitive monitoring domain-specific?. PLoS ONE, 2020, 15, e0229932.	1.1	21
88	Error Adaptation in Mental Arithmetic. Quarterly Journal of Experimental Psychology, 2012, 65, 1059-1067.	0.6	20
89	How Monitoring Other's Actions Influences One's Own Performance. Experimental Psychology, 2011, 58, 499-508.	0.3	20
90	Lexical and syntactic structures in a connectionist model of reading multi-digit numbers. Connection Science, 2006, 18, 265-283.	1.8	16

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91	Effect of the static magnetic field of the MR-scanner on ERPs: Evaluation of visual, cognitive and motor potentials. <i>Clinical Neurophysiology</i> , 2010, 121, 672-685.	0.7	16
92	Are Individual Differences in Arithmetic Fact Retrieval in Children Related to Inhibition?. <i>Frontiers in Psychology</i> , 2016, 7, 825.	1.1	16
93	“œI can write seven but I can’t say it” a case of domain-specific phonological output deficit for numbers. <i>Neuropsychologia</i> , 2005, 43, 1177-1188.	0.7	15
94	The neural basis of metacognitive monitoring during arithmetic in the developing brain. <i>Human Brain Mapping</i> , 2020, 41, 4562-4573.	1.9	15
95	Spatial Attention in Serial Order Working Memory: An EEG Study. <i>Cerebral Cortex</i> , 2021, 31, 2482-2493.	1.6	15
96	Unsigned value prediction-error modulates the motor system in absence of choice. <i>NeuroImage</i> , 2015, 122, 73-79.	2.1	14
97	Roman Digit Naming. <i>Experimental Psychology</i> , 2008, 55, 73-81.	0.3	13
98	The mental number line: exact and approximate. <i>Trends in Cognitive Sciences</i> , 2004, 8, 447-448.	4.0	12
99	Aversive Conditioning under Conditions of Restricted Awareness: Effects on Spatial Cueing. <i>Quarterly Journal of Experimental Psychology</i> , 2010, 63, 2336-2358.	0.6	12
100	ERP Response Unveils Effect of Second Language Manipulation on First Language Processing. <i>PLoS ONE</i> , 2016, 11, e0167194.	1.1	12
101	Ancestral Mental Number Lines: What Is the Evidence?. <i>Cognitive Science</i> , 2017, 41, 2262-2266.	0.8	12
102	Opposite effects of working memory on subjective visibility and priming.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2013, 39, 1959-1965.	0.7	10
103	Bidirectionality in Synesthesia. <i>Experimental Psychology</i> , 2010, 57, 178-184.	0.3	10
104	Negative Priming with Numbers: No Evidence for a Semantic Locus. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2005, 58, 1153-1172.	2.3	9
105	Neurocognitive Components of Mathematical Skills and Dyscalculia. , 2016, , 195-217.		9
106	Paying attention to working memory: Similarities in the spatial distribution of attention in mental and physical space. <i>Psychonomic Bulletin and Review</i> , 2016, 23, 1190-1197.	1.4	9
107	Dissociable neural systems of sequence learning. <i>Advances in Cognitive Psychology</i> , 2012, 8, 73-82.	0.2	9
108	Selective interference of grasp and space representations with number magnitude and serial order processing. <i>Psychonomic Bulletin and Review</i> , 2015, 22, 1370-1376.	1.4	8

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109	Asymmetric Spatial Processing Under Cognitive Load. <i>Frontiers in Psychology</i> , 2018, 9, 583.	1.1	8
110	Functionally distinct contributions of parietal cortex to a numerical landmark task: An fMRI study. <i>Cortex</i> , 2019, 114, 28-40.	1.1	8
111	Do preliterate children spontaneously employ spatial coding for serial order in working memory?. <i>Annals of the New York Academy of Sciences</i> , 2020, 1477, 91-99.	1.8	8
112	Repetition priming in the stop signal task: The electrophysiology of sequential effects of stopping. <i>Neuropsychologia</i> , 2012, 50, 2860-2868.	0.7	7
113	Eye-movements reveal the serial position of the attended item in verbal working memory. <i>Psychonomic Bulletin and Review</i> , 2022, 29, 530-540.	1.4	7
114	Bilingualism and Numeric Cognition. <i>Psychologica Belgica</i> , 2020, 38, 231.	1.0	7
115	Too anxious to be confident? A panel longitudinal study into the interplay of mathematics anxiety and metacognitive monitoring in arithmetic achievement.. <i>Journal of Educational Psychology</i> , 2021, 113, 1550-1564.	2.1	7
116	Does contingency awareness mediate the influence of emotional learning on the cueing of visual attention?. <i>Psychological Research</i> , 2009, 73, 107-113.	1.0	6
117	Preparing or Executing the Wrong Task: The Influence on Switch Effects. <i>Quarterly Journal of Experimental Psychology</i> , 2012, 65, 1172-1184.	0.6	6
118	Right-sided representational neglect after left brain damage in a case without visuospatial working memory deficits. <i>Cortex</i> , 2013, 49, 2283-2293.	1.1	6
119	Impaired Processing of Serial Order Determines Working Memory Impairments in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 1171-1186.	1.2	6
120	Which Space for Numbers?. , 2018, , 233-242.		6
121	Arithmetic learning in children: An fMRI training study. <i>Neuropsychologia</i> , 2022, 169, 108183.	0.7	6
122	Comparing color-word and picture-word Stroop-like effects: A test of the Glaser and Glaser (1989) model. <i>Psychological Research</i> , 1994, 56, 293-300.	1.0	5
123	Bilateral Processing of Redundant Information: the Influence of Stimulus Notation and Processing Speed in Number Comparison. <i>Cortex</i> , 2007, 43, 207-218.	1.1	5
124	Offline and online automatic number comparison. <i>Psychological Research</i> , 2008, 72, 347-352.	1.0	5
125	The Size of the Simon Effect Depends on the Nature of the Relevant Task. <i>Experimental Psychology</i> , 2007, 54, 202-214.	0.3	5
126	Dissociable neural systems of sequence learning. <i>Advances in Cognitive Psychology</i> , 2012, 8, 73-82.	0.2	5



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127	Task switching and across-trial distance priming are independent. <i>European Journal of Cognitive Psychology</i> , 2007, 19, 1-16.	1.3	4
128	What counts in estimation? The nature of the preverbal system. <i>Progress in Brain Research</i> , 2016, 227, 29-51.	0.9	4
129	The Graded Fate of Unattended Stimulus Representations in Visuospatial Working Memory. <i>Frontiers in Psychology</i> , 2019, 10, 374.	1.1	4
130	Disentangling Neural Sources of Problem Size and Interference Effects in Multiplication. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 453-467.	1.1	4
131	The Representation of Multiplication and Division Facts in Memory. <i>Experimental Psychology</i> , 2011, 58, 312-323.	0.3	4
132	From Counting to Retrieving: Neural Networks Underlying Alphabet Arithmetic Learning. <i>Journal of Cognitive Neuroscience</i> , 2021, 34, 16-33.	1.1	4
133	Spatialization in working memory and its relation to math anxiety. <i>Annals of the New York Academy of Sciences</i> , 2022, 1512, 192-202.	1.8	4
134	How serially organized working memory information interacts with timing. <i>Psychological Research</i> , 2017, 81, 1255-1263.	1.0	3
135	Distinguishing between cognitive explanations of the problem size effect in mental arithmetic via representational similarity analysis of fMRI data. <i>Neuropsychologia</i> , 2019, 132, 107120.	0.7	3
136	Abstract representations of number: What interactions with number form do not prove and priming effects do. <i>Behavioral and Brain Sciences</i> , 2009, 32, 351-352.	0.4	2
137	Speaking in numbers as a transitional phase between mutism and Wernicke's aphasia: A report of three cases. <i>Aphasiology</i> , 2012, 26, 917-932.	1.4	2
138	Editorial: Turning the Mind's Eye Inward: The Interplay Between Selective Attention and Working Memory. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 616.	1.0	2
139	Reactive and proactive control in arithmetical strategy selection. <i>Journal of Numerical Cognition</i> , 2017, 3, 598-619.	0.6	2
140	Neural Patterns in Parietal Cortex and Hippocampus Distinguish Retrieval of Start versus End Positions in Working Memory. <i>Journal of Cognitive Neuroscience</i> , 2022, , 1-16.	1.1	2
141	Performance monitoring at the task and the response level. <i>Reviews in the Neurosciences</i> , 2011, 22, 575-81.	1.4	1
142	Category specific recall in acute stroke: a case with letter speech. <i>Neurocase</i> , 2019, 25, 251-258.	0.2	1
143	A momentum effect in temporal arithmetic. <i>Cognition</i> , 2021, 206, 104488.	1.1	1
144	Towards the next phase of the Journal of Numerical Cognition. <i>Journal of Numerical Cognition</i> , 2019, 5, 260-261.	0.6	1

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145	Not all basic number representations are analog: Place coding as a precursor of the natural number system. Behavioral and Brain Sciences, 2008, 31, 650-651.	0.4	0
146	Preface. Progress in Brain Research, 2016, 227, xv-xvi.	0.9	0
147	Statistics Anxiety in Flanders: Exploring Its Level, Antecedents, and Performance Impact Across Professional and Academic Bachelor Programs in Psychology. International Electronic Journal of Elementary Education, 0, , .	0.6	0
148	Title is missing!. , 2020, 15, e0229932.		0
149	Title is missing!. , 2020, 15, e0229932.		0
150	Title is missing!. , 2020, 15, e0229932.		0
151	Title is missing!. , 2020, 15, e0229932.		0
152	Title is missing!. , 2020, 15, e0229932.		0
153	Title is missing!. , 2020, 15, e0229932.		0