

# Wim Fias

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Arithmetic learning in children: An fMRI training study. <i>Neuropsychologia</i> , 2022, 169, 108183.	0.7	6
4	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
5	A momentum effect in temporal arithmetic. <i>Cognition</i> , 2021, 206, 104488.	1.1	1
6	Spatial Attention in Serial Order Working Memory: An EEG Study. <i>Cerebral Cortex</i> , 2021, 31, 2482-2493.	1.6	15
7	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
8	From Counting to Retrieving: Neural Networks Underlying Alphabet Arithmetic Learning. <i>Journal of Cognitive Neuroscience</i> , 2021, 34, 16-33.	1.1	4
9	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
10	The neural basis of metacognitive monitoring during arithmetic in the developing brain. <i>Human Brain Mapping</i> , 2020, 41, 4562-4573.	1.9	15
11	Metacognition across domains: Is the association between arithmetic and metacognitive monitoring domain-specific?. <i>PLoS ONE</i> , 2020, 15, e0229932.	1.1	21
12	Bilingualism and Numeric Cognition. <i>Psychologica Belgica</i> , 2020, 38, 231.	1.0	7
13	Title is missing!. , 2020, 15, e0229932.		0
14	Title is missing!. , 2020, 15, e0229932.		0
15	Title is missing!. , 2020, 15, e0229932.		0
16	Title is missing!. , 2020, 15, e0229932.		0
17	Title is missing!. , 2020, 15, e0229932.		0
18	Title is missing!. , 2020, 15, e0229932.		0

#	ARTICLE	IF	CITATIONS
19	Category specific recall in acute stroke: a case with letter speech. <i>Neurocase</i> , 2019, 25, 251-258.	0.2	1
20	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
21	The Graded Fate of Unattended Stimulus Representations in Visuospatial Working Memory. <i>Frontiers in Psychology</i> , 2019, 10, 374.	1.1	4
22	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
23	Functionally distinct contributions of parietal cortex to a numerical landmark task: An fMRI study. <i>Cortex</i> , 2019, 114, 28-40.	1.1	8
24	Disentangling Neural Sources of Problem Size and Interference Effects in Multiplication. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 453-467.	1.1	4
25	Towards the next phase of the Journal of Numerical Cognition. <i>Journal of Numerical Cognition</i> , 2019, 5, 260-261.	0.6	1
26	Which Space for Numbers?. , 2018, , 233-242.		6
27	Asymmetric Spatial Processing Under Cognitive Load. <i>Frontiers in Psychology</i> , 2018, 9, 583.	1.1	8
28	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
29	Ancestral Mental Number Lines: What Is the Evidence?. <i>Cognitive Science</i> , 2017, 41, 2262-2266.	0.8	12
30	Are numbers grounded in a general magnitude processing system? A functional neuroimaging meta-analysis. <i>Neuropsychologia</i> , 2017, 105, 50-69.	0.7	94
31	Grounding Verbal Working Memory: The Case of Serial Order. <i>Current Directions in Psychological Science</i> , 2017, 26, 429-433.	2.8	36
32	How serially organized working memory information interacts with timing. <i>Psychological Research</i> , 2017, 81, 1255-1263.	1.0	3
33	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
34	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
35	Reactive and proactive control in arithmetical strategy selection. <i>Journal of Numerical Cognition</i> , 2017, 3, 598-619.	0.6	2
36	ERP Response Unveils Effect of Second Language Manipulation on First Language Processing. <i>PLoS ONE</i> , 2016, 11, e0167194.	1.1	12

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37	Are Individual Differences in Arithmetic Fact Retrieval in Children Related to Inhibition?. <i>Frontiers in Psychology</i> , 2016, 7, 825.	1.1	16
38	How Does Working Memory Enable Number-Induced Spatial Biases?. <i>Frontiers in Psychology</i> , 2016, 7, 977.	1.1	64
39	Neurocognitive Components of Mathematical Skills and Dyscalculia. , 2016, , 195-217.		9
40	Brain networks under attack: robustness properties and the impact of lesions. <i>Brain</i> , 2016, 139, 3063-3083.	3.7	244
41	Preface. <i>Progress in Brain Research</i> , 2016, 227, xv-xvi.	0.9	0
42	The temporary nature of numberâ€™space interactions.. <i>Canadian Journal of Experimental Psychology</i> , 2016, 70, 33-40.	0.7	41
43	What counts in estimation? The nature of the preverbal system. <i>Progress in Brain Research</i> , 2016, 227, 29-51.	0.9	4
44	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
45	Single-Trial ERP Component Analysis Using a Spatiotemporal LCMV Beamformer. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 55-66.	2.5	42
46	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
47	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
48	Unsigned value prediction-error modulates the motor system in absence of choice. <i>NeuroImage</i> , 2015, 122, 73-79.	2.1	14
49	Serial Position Markers in Space: Visuospatial Priming of Serial Order Working Memory Retrieval. <i>PLoS ONE</i> , 2015, 10, e0116469.	1.1	27
50	Common Neural Substrates for Ordinal Representation in Short-Term Memory, Numerical and Alphabetical Cognition. <i>PLoS ONE</i> , 2014, 9, e92049.	1.1	42
51	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
52	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
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	Overlapping Neural Systems Represent Cognitive Effort and Reward Anticipation. <i>PLoS ONE</i> , 2014, 9, e91008.	1.1	145

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55	Changing your mind before it is too late: The electrophysiological correlates of online error correction during response selection. <i>Psychophysiology</i> , 2014, 51, 746-760.	1.2	27
56	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
57	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
58	Correlation between individual differences in striatal dopamine and in visual consciousness. <i>Current Biology</i> , 2014, 24, R265-R266.	1.8	22
59	Dissociating contributions of ACC and vmPFC in reward prediction, outcome, and choice. <i>Neuropsychologia</i> , 2014, 59, 112-123.	0.7	60
60	Anticipatory processes in brain state switching – Evidence from a novel cued-switching task implicating default mode and salience networks. <i>NeuroImage</i> , 2014, 98, 359-365.	2.1	59
61	Response-Related Potentials during Semantic Priming: The Effect of a Speeded Button Response Task on ERPs. <i>PLoS ONE</i> , 2014, 9, e87650.	1.1	29
62	Multiple components of developmental dyscalculia. <i>Trends in Neuroscience and Education</i> , 2013, 2, 43-47.	1.5	108
63	Exploration of the mechanisms underlying the ISPC effect: Evidence from behavioral and neuroimaging data. <i>Neuropsychologia</i> , 2013, 51, 1040-1049.	0.7	29
64	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
65	Brain correlates of subjective freedom of choice. <i>Consciousness and Cognition</i> , 2013, 22, 1271-1284.	0.8	33
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	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
68	Spatial Attention Interacts With Serial-Order Retrieval From Verbal Working Memory. <i>Psychological Science</i> , 2013, 24, 1854-1859.	1.8	112
69	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
70	Inconsistencies in spontaneous and intentional trait inferences. <i>Social Cognitive and Affective Neuroscience</i> , 2012, 7, 937-950.	1.5	84
71	Error Adaptation in Mental Arithmetic. <i>Quarterly Journal of Experimental Psychology</i> , 2012, 65, 1059-1067.	0.6	20
72	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

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73	Preparing or Executing the Wrong Task: The Influence on Switch Effects. Quarterly Journal of Experimental Psychology, 2012, 65, 1172-1184.	0.6	6
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	Repetition priming in the stop signal task: The electrophysiology of sequential effects of stopping. Neuropsychologia, 2012, 50, 2860-2868.	0.7	7
76	Dissociable neural systems of sequence learning. Advances in Cognitive Psychology, 2012, 8, 73-82.	0.2	9
77	Dissociable neural systems of sequence learning. Advances in Cognitive Psychology, 2012, 8, 73-82.	0.2	5
78	Spontaneous and intentional trait inferences recruit a common mentalizing network to a different degree: Spontaneous inferences activate only its core areas. Social Neuroscience, 2011, 6, 123-138.	0.7	110
79	Distinct representations of numerical and non-numerical order in the human intraparietal sulcus revealed by multivariate pattern recognition. NeuroImage, 2011, 56, 674-680.	2.1	57
80	Impaired visuo-motor sequence learning in Developmental Coordination Disorder. Research in Developmental Disabilities, 2011, 32, 749-756.	1.2	81
81	How is Number Associated with Space? The Role of Working Memory. , 2011, , 133-148.		50
82	Passive hand movements disrupt adults's counting strategies. Frontiers in Psychology, 2011, 2, 201.	1.1	38
83	The Neural Basis of Implicit Perceptual Sequence Learning. Frontiers in Human Neuroscience, 2011, 5, 137.	1.0	49
84	Non-spatial neglect for the mental number line. Neuropsychologia, 2011, 49, 2570-2583.	0.7	46
85	A working memory account for spatial's numerical associations. Cognition, 2011, 119, 114-119.	1.1	322
86	Performance monitoring at the task and the response level. Reviews in the Neurosciences, 2011, 22, 575-81.	1.4	1
87	Errors and Conflict at the Task Level and the Response Level. Journal of Neuroscience, 2011, 31, 1366-1374.	1.7	40
88	Stages of Nonsymbolic Number Processing in Occipitoparietal Cortex Disentangled by fMRI Adaptation. Journal of Neuroscience, 2011, 31, 7168-7173.	1.7	55
89	The Heterogeneous Nature of Number's Space Interactions. Frontiers in Human Neuroscience, 2011, 5, 182.	1.0	47
90	The Representation of Multiplication and Division Facts in Memory. Experimental Psychology, 2011, 58, 312-323.	0.3	4

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91	How Monitoring Other's Actions Influences One's Own Performance. <i>Experimental Psychology</i> , 2011, 58, 499-508.	0.3	20
92	Outcome expectancy and not accuracy determines posterror slowing: ERP support. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2010, 10, 270-278.	1.0	108
93	Hippocampal contribution to early and later stages of implicit motor sequence learning. <i>Experimental Brain Research</i> , 2010, 202, 795-807.	0.7	101
94	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
95	Number Processing Pathways in Human Parietal Cortex. <i>Cerebral Cortex</i> , 2010, 20, 77-88.	1.6	108
96	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
97	Verbal-spatial and visuospatial coding of number-space interactions.. <i>Journal of Experimental Psychology: General</i> , 2010, 139, 180-190.	1.5	150
98	Saliency maps in parietal cortex: Imaging and computational modeling. <i>NeuroImage</i> , 2010, 52, 1005-1014.	2.1	29
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	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
101	Bidirectionality in Synesthesia. <i>Experimental Psychology</i> , 2010, 57, 178-184.	0.3	10
102	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
103	Post-error slowing: An orienting account. <i>Cognition</i> , 2009, 111, 275-279.	1.1	429
104	Numbers are associated with different types of spatial information depending on the task. <i>Cognition</i> , 2009, 113, 248-253.	1.1	127
105	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
106	Disentangling perceptual from motor implicit sequence learning with a serial color-matching task. <i>Experimental Brain Research</i> , 2009, 197, 163-174.	0.7	33
107	Similarity and Rules United: Similarity- and Rule-Based Processing in a Single Neural Network. <i>Cognitive Science</i> , 2009, 33, 243-259.	0.8	39
108	Is developmental coordination disorder a motor imagery deficit?. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2009, 31, 720-730.	0.8	56

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109	The neural representation of extensively trained ordered sequences. <i>NeuroImage</i> , 2009, 47, 367-375.	2.1	68
110	A longitudinal study of children's performance on simple multiplication and division problems.. <i>Developmental Psychology</i> , 2009, 45, 1480-1496.	1.2	21
111	Offline and online automatic number comparison. <i>Psychological Research</i> , 2008, 72, 347-352.	1.0	5
112	A hippocampal-parietal network for learning an ordered sequence. <i>NeuroImage</i> , 2008, 40, 333-341.	2.1	78
113	Not all basic number representations are analog: Place coding as a precursor of the natural number system. <i>Behavioral and Brain Sciences</i> , 2008, 31, 650-651.	0.4	0
114	Symbolic and Nonsymbolic Pathways of Number Processing. <i>Philosophical Psychology</i> , 2008, 21, 539-554.	0.5	22
115	Cross-lingual numerical distance priming with second-language number words in native- to third-language number word translation. <i>Quarterly Journal of Experimental Psychology</i> , 2008, 61, 1281-1290.	0.6	34
116	Roman Digit Naming. <i>Experimental Psychology</i> , 2008, 55, 73-81.	0.3	13
117	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
118	Task switching and across-trial distance priming are independent. <i>European Journal of Cognitive Psychology</i> , 2007, 19, 1-16.	1.3	4
119	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
120	Priming reveals differential coding of symbolic and non-symbolic quantities. <i>Cognition</i> , 2007, 105, 380-394.	1.1	125
121	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
122	How Images of the Brain can Constrain Cognitive Theory: the Case of Numerical Cognition. <i>Cortex</i> , 2006, 42, 406-410.	1.1	34
123	Lexical and syntactic structures in a connectionist model of reading multi-digit numbers. <i>Connection Science</i> , 2006, 18, 265-283.	1.8	16
124	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
125	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
126	Further Evidence that the SNARC Effect is Processed Along a Dual-Route Architecture. <i>Experimental Psychology</i> , 2006, 53, 58-68.	0.3	116



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127	Automatic response activation of implicit spatial information: Evidence from the SNARC effect. <i>Acta Psychologica</i> , 2006, 122, 221-233.	0.7	195
128	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
129	Interacting neighbors: A connectionist model of retrieval in single-digit multiplication. <i>Memory and Cognition</i> , 2005, 33, 1-16.	0.9	119
130	A model of exact small-number representation. <i>Psychonomic Bulletin and Review</i> , 2005, 12, 66-80.	1.4	181
131	“œl 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
132	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
133	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
134	Towards a common processing architecture underlying Simon and SNARC effects. <i>European Journal of Cognitive Psychology</i> , 2005, 17, 659-673.	1.3	65
135	Representation of Number in Animals and Humans: A Neural Model. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 1493-1504.	1.1	432
136	The mental number line: exact and approximate. <i>Trends in Cognitive Sciences</i> , 2004, 8, 447-448.	4.0	12
137	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
138	Oculomotor Bias Induced by Number Perception. <i>Experimental Psychology</i> , 2004, 51, 91-97.	0.3	120
139	The mental representation of ordinal sequences is spatially organized. <i>Cognition</i> , 2003, 87, B87-B95.	1.1	371
140	Parietal Representation of Symbolic and Nonsymbolic Magnitude. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 47-56.	1.1	382
141	Semantic priming in number naming. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2002, 55, 1127-1139.	2.3	105
142	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
143	Are Arabic numerals processed as pictures in a Stroop interference task?. <i>Psychological Research</i> , 2001, 65, 242-249.	1.0	59
144	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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145	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
146	Heuristic and analytic processes in propositional reasoning with negatives.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2000, 26, 1713-1734.	0.7	31
147	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
148	About the influence of the presentation format on arithmetical-fact retrieval processes. <i>Cognition</i> , 1997, 63, 335-374.	1.1	64
149	The Importance of Magnitude Information in Numerical Processing: Evidence from the SNARC Effect. <i>Mathematical Cognition</i> , 1996, 2, 95-110.	0.4	436
150	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
151	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
152	Constructions of Neuroscience in Early Childhood Education. , 0, , .		27
153	Statistics Anxiety in Flanders: Exploring Its Level, Antecedents, and Performance Impact Across Professional and Academic Bachelor Programs in Psychology. <i>International Electronic Journal of Elementary Education</i> , 0, , .	0.6	0