

# GrÃ©goire Borst

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

2,019  
citations

201674

27  
h-index

302126

39  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual mental imagery and visual perception: Structural equivalence revealed by scanning processes. <i>Memory and Cognition</i> , 2008, 36, 849-862.	1.6	121
2	Inhibitory Control as a Core Process of Creative Problem Solving and Idea Generation from Childhood to Adulthood. <i>New Directions for Child and Adolescent Development</i> , 2016, 2016, 61-72.	2.2	86
3	Structural properties of spatial representations in blind people: Scanning images constructed from haptic exploration or from locomotion in a 3-D audio virtual environment. <i>Memory and Cognition</i> , 2010, 38, 591-604.	1.6	66
4	Evidence for an inhibitory-control theory of the reasoning brain. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 148.	2.0	65
5	Inhibitory control is needed for the resolution of arithmetic word problems: A developmental negative priming study.. <i>Journal of Educational Psychology</i> , 2013, 105, 701-708.	2.9	58
6	The Learning Brain. <i>Zeitschrift Fur Psychologie / Journal of Psychology</i> , 2016, 224, 277-285.	1.0	57
7	Folding of the anterior cingulate cortex partially explains inhibitory control during childhood: A longitudinal study. <i>Developmental Cognitive Neuroscience</i> , 2014, 9, 126-135.	4.0	55
8	Measuring inhibitory control in children and adults: brain imaging and mental chronometry. <i>Frontiers in Psychology</i> , 2014, 5, 616.	2.1	54
9	Inhibitory control efficiency in a Piaget-like class-inclusion task in school-age children and adults: A developmental negative priming study.. <i>Developmental Psychology</i> , 2013, 49, 1366-1374.	1.6	50
10	Inhibition of the mirror generalization process in reading in school-aged children. <i>Journal of Experimental Child Psychology</i> , 2016, 145, 157-165.	1.4	50
11	Neural basis of functional fixedness during creative idea generation: An EEG study. <i>Neuropsychologia</i> , 2018, 118, 4-12.	1.6	50
12	How interindividual differences in brain anatomy shape reading accuracy. <i>Brain Structure and Function</i> , 2018, 223, 701-712.	2.3	50
13	The Cognitive Mechanisms of the SNARC Effect: An Individual Differences Approach. <i>PLoS ONE</i> , 2014, 9, e95756.	2.5	50
14	Integrating visual mental images and visual percepts: new evidence for depictive representations. <i>Psychological Research</i> , 2011, 75, 259-271.	1.7	48
15	The cost of blocking the mirror generalization process in reading: evidence for the role of inhibitory control in discriminating letters with lateral mirror-image counterparts. <i>Psychonomic Bulletin and Review</i> , 2015, 22, 228-234.	2.8	47
16	The Shape of the ACC Contributes to Cognitive Control Efficiency in Preschoolers. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 96-106.	2.3	44
17	Fear and anger have opposite effects on risk seeking in the gain frame. <i>Frontiers in Psychology</i> , 2015, 6, 253.	2.1	44
18	Representations in mental imagery and working memory: Evidence from different types of visual masks. <i>Memory and Cognition</i> , 2012, 40, 204-217.	1.6	42

#	ARTICLE	IF	CITATIONS
19	Individual Differences in Spatial Mental Imagery. Quarterly Journal of Experimental Psychology, 2010, 63, 2031-2050.	1.1	37
20	Inhibitory control in number-conservation and class-inclusion tasks: A neo-Piagetian inter-task priming study. Cognitive Development, 2012, 27, 283-298.	1.3	35
21	Taking a Third-Person Perspective Requires Inhibitory Control: Evidence From a Developmental Negative Priming Study. Child Development, 2016, 87, 1825-1840.	3.0	35
22	Inhibition of misleading heuristics as a core mechanism for typical cognitive development: evidence from behavioural and brain-imaging studies. Developmental Medicine and Child Neurology, 2015, 57, 21-25.	2.1	34
23	Visual mental image generation does not overlap with visual short-term memory: A dual-task interference study. Memory and Cognition, 2012, 40, 360-372.	1.6	33
24	Adolescents' inhibitory control: keep it cool or lose control. Developmental Science, 2018, 21, e12491.	2.4	33
25	Number Conservation is Related to Children's Prefrontal Inhibitory Control: An fMRI Study of a Piagetian Task. PLoS ONE, 2012, 7, e40802.	2.5	31
26	Mental rotation is not easily cognitively penetrable. Journal of Cognitive Psychology, 2011, 23, 60-75.	0.9	29
27	What have we learned about the processes involved in the Iowa Gambling Task from developmental studies?. Frontiers in Psychology, 2014, 5, 915.	2.1	29
28	Early Cerebral Constraints on Reading Skills in School-Age Children: An MRI Study. Mind, Brain, and Education, 2016, 10, 47-54.	1.9	28
29	Fast and slow thinking: Electrophysiological evidence for early conflict sensitivity. Neuropsychologia, 2018, 117, 483-490.	1.6	28
30	Do we need inhibitory control to be creative? Evidence from a dual-task paradigm.. Psychology of Aesthetics, Creativity, and the Arts, 2018, 12, 351-358.	1.3	28
31	Understanding the dorsal and ventral systems of the human cerebral cortex: Beyond dichotomies.. American Psychologist, 2011, 66, 624-632.	4.2	26
32	Anterior cingulate cortex sulcation and its differential effects on conflict monitoring in bilinguals and monolinguals. Brain and Language, 2017, 175, 57-63.	1.6	26
33	Complex and subtle structural changes in prefrontal cortex induced by inhibitory control training from childhood to adolescence. Developmental Science, 2020, 23, e12898.	2.4	26
34	Inhibition of the whole number bias in decimal number comparison: A developmental negative priming study. Journal of Experimental Child Psychology, 2019, 177, 240-247.	1.4	25
35	Inhibitory control and decimal number comparison in school-aged children. PLoS ONE, 2017, 12, e0188276.	2.5	25
36	Sulcal Polymorphisms of the IFC and ACC Contribute to Inhibitory Control Variability in Children and Adults. ENeuro, 2018, 5, ENEURO.0197-17.2018.	1.9	25

#	ARTICLE	IF	CITATIONS
37	Expertise, inhibitory control and arithmetic word problems: A negative priming study in mathematics experts. <i>Learning and Instruction</i> , 2016, 45, 40-48.	3.2	23
38	Inhibitory control is needed to overcome written verb inflection errors: Evidence from a developmental negative priming study. <i>Cognitive Development</i> , 2016, 37, 18-27.	1.3	22
39	Fear selectively modulates visual mental imagery and visual perception. <i>Quarterly Journal of Experimental Psychology</i> , 2010, 63, 833-839.	1.1	19
40	The Impact of Alexithymia on Pathological Gamblers' Decision Making. <i>Cognitive and Behavioral Neurology</i> , 2014, 27, 59-67.	0.9	19
41	Varying the scope of attention alters the encoding of categorical and coordinate spatial relations. <i>Neuropsychologia</i> , 2010, 48, 2769-2772.	1.6	18
42	Different cognitive processes in two image-scanning paradigms. <i>Memory and Cognition</i> , 2006, 34, 475-490.	1.6	17
43	The role of numerical magnitude and order in the illusory perception of size and brightness. <i>Frontiers in Psychology</i> , 2013, 4, 484.	2.1	17
44	Towards Deciphering the Fetal Foundation of Normal Cognition and Cognitive Symptoms From Sulcation of the Cortex. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 712862.	1.7	17
45	Inhibitory control and visuo-spatial reversibility in Piaget's seminal number conservation task: a high-density ERP study. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 920.	2.0	16
46	Is inhibitory control involved in discriminating pseudowords that contain the reversible letters b and d?. <i>Journal of Experimental Child Psychology</i> , 2017, 162, 259-267.	1.4	16
47	The local properties of bold signal fluctuations at rest monitor inhibitory control training in adolescents. <i>Developmental Cognitive Neuroscience</i> , 2019, 38, 100664.	4.0	16
48	Impact of emotional context congruency on decision making under ambiguity.. <i>Emotion</i> , 2013, 13, 177-182.	1.8	15
49	The forest, the trees, and the leaves: Differences of processing across development.. <i>Developmental Psychology</i> , 2016, 52, 1262-1272.	1.6	15
50	Sparing of spatial mental imagery in patients with hippocampal lesions. <i>Learning and Memory</i> , 2013, 20, 657-663.	1.3	14
51	Predominance of lateral over vertical mirror errors in reading: A case for neuronal recycling and inhibition. <i>Brain and Cognition</i> , 2017, 116, 1-8.	1.8	14
52	Colors in mind: A novel paradigm to investigate pure color imagery.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2015, 41, 1152-1161.	0.9	13
53	Socio-Emotional Context and Adolescents' Decision Making: The Experience of Regret and Relief After Social Comparison. <i>Journal of Research on Adolescence</i> , 2015, 25, 81-91.	3.7	13
54	Individual differences in spatial relation processing: Effects of strategy, ability, and gender. <i>Brain and Cognition</i> , 2011, 76, 184-190.	1.8	12

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55	You can detect the trees as well as the forest when adding the leaves: Evidence from visual search tasks containing three-level hierarchical stimuli. <i>Acta Psychologica</i> , 2015, 157, 131-143.	1.5	12
56	Evidence for the role of inhibition in numerical comparison: A negative priming study in 7- to 8-year-olds and adults. <i>Journal of Experimental Child Psychology</i> , 2019, 186, 131-141.	1.4	12
57	Children inhibit global information when the forest is dense and local information when the forest is sparse. <i>Journal of Experimental Child Psychology</i> , 2018, 173, 155-167.	1.4	11
58	Developmental frontal brain activation differences in overcoming heuristic bias. <i>Cortex</i> , 2019, 117, 111-121.	2.4	11
59	The progressive 6-year-old conserver: Numerical saliency and sensitivity as core mechanisms of numerical abstraction in a Piaget-like estimation task. <i>Cognition</i> , 2019, 190, 137-142.	2.2	10
60	When Stroop helps Piaget: An inter-task positive priming paradigm in 9-year-old children. <i>Journal of Experimental Child Psychology</i> , 2015, 139, 71-82.	1.4	9
61	Adolescents and adults need inhibitory control to compare fractions. <i>Journal of Numerical Cognition</i> , 2019, 5, 314-336.	1.2	8
62	Fear and anxiety modulate mental rotation. <i>Journal of Cognitive Psychology</i> , 2012, 24, 665-671.	0.9	7
63	Cognitive control outside of conscious awareness. <i>Consciousness and Cognition</i> , 2017, 53, 185-193.	1.5	7
64	Evidence for a visuospatial bias in decimal number comparison in adolescents and in adults. <i>Scientific Reports</i> , 2019, 9, 14770.	3.3	7
65	Spontaneous orientation towards irrelevant dimensions of magnitude and numerical acuity. <i>Learning and Instruction</i> , 2018, 54, 156-163.	3.2	6
66	The forest, the trees, and the leaves in preterm children: the impact of prematurity on a visual search task containing three-level hierarchical stimuli. <i>European Child and Adolescent Psychiatry</i> , 2021, 30, 253-260.	4.7	6
67	How does social evaluation influence Hot and Cool inhibitory control in adolescence?. <i>PLoS ONE</i> , 2021, 16, e0257753.	2.5	6
68	Sulcation of the intraparietal sulcus is related to symbolic but not non-symbolic number skills. <i>Developmental Cognitive Neuroscience</i> , 2021, 51, 100998.	4.0	6
69	Fear improves mental rotation of low-spatial-frequency visual representation.. <i>Emotion</i> , 2013, 13, 811-816.	1.8	5
70	GRAMMATICAL ATTRACTION ERROR DETECTION IN CHILDREN AND ADOLESCENTS. <i>Cognitive Development</i> , 2017, 44, 127-138.	1.3	5
71	Inhibitory control and the understanding of buoyancy from childhood to adulthood. <i>Journal of Experimental Child Psychology</i> , 2021, 208, 105155.	1.4	4
72	A New Paradigm for the Study of Cognitive Flexibility in Children and Adolescents: The "Virtual House Locomotor Maze"(VHLM). <i>Frontiers in Psychiatry</i> , 2021, 12, 708378.	2.6	4

#	ARTICLE	IF	CITATIONS
73	Mapping the Human Brain from the Prenatal Period to Infancy Using 3D Magnetic Resonance Imaging. , 2022, , 50-84.		3
74	Bridging the Gap between the Lab and the Classroom: An Online Citizen Scientific Research Project with Teachers Aiming at Improving Inhibitory Control of Schoolâ€Age Children. Mind, Brain, and Education, 2021, 15, 122-128.	1.9	2
75	Development of cool and hot theory of mind and cool and hot inhibitory control abilities from 3.5 to 6.5 years of age. PLoS ONE, 2022, 17, e0262251.	2.5	2
76	Neurocomputational Methods. , 2022, , 662-687.		2
77	Blocking Our Brain: How We Can Avoid Repetitive Mistakes!. Frontiers for Young Minds, 2015, 3, .	0.8	1
78	Comparing magnitudes across dimensions: a univariate and multivariate approach. , 2016, , .		1
79	Stop in the name of lies: The cost of blocking the truth to deceive. Consciousness and Cognition, 2018, 65, 141-151.	1.5	1
80	Hot and cool response inhibition abilities develop linearly from late childhood to young adulthood. Cognitive Development, 2021, 58, 101039.	1.3	1
81	Age-related neural correlates of facial trustworthiness detection during economic interaction.. Journal of Neuroscience, Psychology, and Economics, 2020, 13, 19-33.	1.0	1
82	MathsÂ: une gÃ©nÃ©ration sacrifiÃ©eÂ?. , 2019, NÂ° 112, 68-72.		1
83	Developing Cognitive Control and Flexible Adaptation during Childhood. , 2022, , 452-471.		1
84	Toward an inhibitory control theory of the reasoning brain in development. , 2021, , 27-43.		0
85	Chapitre 25. Comment le cerveau apprend Ã surmonter les obstacles cognitifsÂ?. , 2018, , 394-404.		0
86	Chapitre 5. Le nombre et lâ€™arithmÃ©tique. , 2020, , 160-193.		0
87	Numerical Cognition and Executive Functions. , 2022, , 383-407.		0
88	Interventions for Improving Executive Functions during Development. , 2022, , 623-643.		0