

Thomas Lachmann

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

2,202
citations

257450

24
h-index

254184

43
g-index

92
all docs

92
docs citations

92
times ranked

1730
citing authors

#	ARTICLE	IF	CITATIONS
1	Alpha oscillatory evidence for shared underlying mechanisms of creativity and fluid intelligence above and beyond working memory-related activity. <i>Intelligence</i> , 2022, 91, 101630.	3.0	3
2	Multimodal Natural Human-Computer Interfaces for Computer-Aided Design: A Review Paper. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6510.	2.5	4
3	Functional illiteracy and developmental dyslexia: looking for common roots. A systematic review. <i>Journal of Cultural Cognitive Science</i> , 2021, 5, 159-179.	1.1	6
4	Face and word composite effects are similarly affected by priming of local and global processing. <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 2189-2204.	1.3	7
5	Do categorical representations modulate early perceptual or later cognitive visual processing? An ERP study. <i>Brain and Cognition</i> , 2021, 150, 105724.	1.8	3
6	Development of a Digital Video-Based Occupational Risk Assessment Method. <i>Frontiers in Public Health</i> , 2021, 9, 683850.	2.7	3
7	Performance differences between instructions on paper vs digital glasses for a simple assembly task. <i>Applied Ergonomics</i> , 2021, 94, 103423.	3.1	12
8	Do categorical representations modulate early automatic visual processing? A visual mismatch-negativity study. <i>Biological Psychology</i> , 2021, 163, 108139.	2.2	4
9	Olfactory sensory and perceptual evaluation in newborn infants: A systematic review. <i>Developmental Psychobiology</i> , 2021, 63, e22201.	1.6	3
10	Spatial Sound in a 3D Virtual Environment: All Bark and No Bite?. <i>Big Data and Cognitive Computing</i> , 2021, 5, 79.	4.7	1
11	Acting your avatar's age: effects of virtual reality avatar embodiment on real life walking speed. <i>Media Psychology</i> , 2020, 23, 293-315.	3.6	50
12	Factoring in the spatial effects of symbolic number representation. <i>Biological Psychology</i> , 2020, 149, 107782.	2.2	8
13	Systematic Review on the Impact of Intelligence on Cognitive Decline and Dementia Risk. <i>Frontiers in Psychiatry</i> , 2020, 11, 658.	2.6	10
14	Effects of computerized grapho-phonological training on literacy acquisition and vocabulary knowledge in children with an immigrant background learning German as L2. <i>Journal of Cultural Cognitive Science</i> , 2020, 4, 367-383.	1.1	6
15	Skilled readers show different serial-position effects for letter versus non-letter target detection in mixed-material strings. <i>Acta Psychologica</i> , 2020, 204, 103025.	1.5	3
16	Relevance of the assessment mode in the digital assessment of processing speed. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2019, 41, 730-739.	1.3	4
17	Neural correlates of feedback processing during a sensory uncertain speech - nonspeech discrimination task. <i>Biological Psychology</i> , 2019, 144, 103-114.	2.2	1
18	Physical and cognitive demands of work in building construction. <i>Engineering, Construction and Architectural Management</i> , 2019, 27, 745-764.	3.1	21

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19	Lost in the forest? Global to local interference depends on children's reading skills. <i>Acta Psychologica</i> , 2019, 193, 11-17.	1.5	12
20	A Face Validation Study for the Investigation of Proteus Effects Targeting Driving Behavior. <i>Lecture Notes in Computer Science</i> , 2019, , 335-348.	1.3	1
21	The culturally co-opted brain: how literacy affects the human mind. <i>Language, Cognition and Neuroscience</i> , 2018, 33, 275-277.	1.2	23
22	Distinguishing cause from effect – many deficits associated with developmental dyslexia may be a consequence of reduced and suboptimal reading experience. <i>Language, Cognition and Neuroscience</i> , 2018, 33, 333-350.	1.2	67
23	There's a SNARC in the Size Congruity Task. <i>Frontiers in Psychology</i> , 2018, 9, 1978.	2.1	7
24	Attention allows the SNARC effect to operate on multiple number lines. <i>Scientific Reports</i> , 2018, 8, 13778.	3.3	8
25	Reading and Dyslexia: The Functional Coordination Framework. <i>Literacy Studies</i> , 2018, , 271-296.	0.3	8
26	Effects of the Computer-Based Training Program Lautarium on Phonological Awareness and Reading and Spelling Abilities in German Second-Graders. <i>Literacy Studies</i> , 2018, , 323-339.	0.3	10
27	Problem Space Matters: Evaluation of a German Enrichment Program for Gifted Children. <i>Frontiers in Psychology</i> , 2018, 9, 569.	2.1	6
28	Is it still speech? Different processing strategies in learning to discriminate stimuli in the transition from speech to non-speech including feedback evaluation. <i>Brain and Cognition</i> , 2018, 125, 1-13.	1.8	2
29	Effects of Aircraft Noise on Reading and Quality of Life in Primary School Children in Germany: Results From the NORAH Study. <i>Environment and Behavior</i> , 2017, 49, 390-424.	4.7	52
30	Connections are not enough for membership: Letter/non-letter distinction persists through phonological association learning. <i>Acta Psychologica</i> , 2017, 176, 85-91.	1.5	6
31	Problem Space Matters: The Development of Creativity and Intelligence in Primary School Children. <i>Creativity Research Journal</i> , 2017, 29, 125-132.	2.6	16
32	Effects of categorical representation on visuospatial working memory in autism spectrum disorder. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2017, 39, 131-141.	1.3	12
33	Intelligence and Creativity in Problem Solving: The Importance of Test Features in Cognition Research. <i>Frontiers in Psychology</i> , 2017, 8, 134.	2.1	33
34	Shared Book Reading Promotes Not Only Language Development, But Also Grapheme Awareness in German Kindergarten Children. <i>Frontiers in Psychology</i> , 2017, 08, 364.	2.1	20
35	Intelligence and Creativity: Over the Threshold Together?. <i>Creativity Research Journal</i> , 2016, 28, 212-218.	2.6	23
36	First and Second Language Acquisition in German Children Attending a Kindergarten Immersion Program: A Combined Longitudinal and Cross-Sectional Study. <i>Language Learning</i> , 2016, 66, 386-418.	2.7	11

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37	SNARC (spatialâ€“numerical association of response codes) meets SPARC (spatialâ€“pitch association of) Tj ETQq1 1 0.784314 rgBT (Q Experimental Psychology, 2016, 69, 1366-1383.	1.1	23
38	When speech enhances Spatial Musical Association of Response Codes: Joint spatial associations of pitch and timbre in nonmusicians. Quarterly Journal of Experimental Psychology, 2016, 69, 1687-1700.	1.1	14
39	Intelligence in creative processes: An EEG study. Intelligence, 2015, 49, 171-178.	3.0	54
40	Evidence for a General Auditory Processing Deficit in Developmental Dyslexia From a Discrimination Paradigm Using Speech Versus Nonspeech Sounds Matched in Complexity. Journal of Speech, Language, and Hearing Research, 2015, 58, 107-121.	1.6	20
41	SNARC meets SPARC in fMRIâ€“Interdependence of compatibility effects depends on semantic content. Neuropsychologia, 2015, 77, 331-338.	1.6	9
42	Is it really search or just matching? The influence of Goodness, number of stimuli and presentation sequence in sameâ€“different tasks. Psychological Research, 2015, 79, 42-63.	1.7	4
43	Reading as functional coordination: not recycling but a novel synthesis. Frontiers in Psychology, 2014, 5, 1046.	2.1	32
44	Letters in the forest: global precedence effect disappears for letters but not for non-letters under reading-like conditions. Frontiers in Psychology, 2014, 5, 705.	2.1	24
45	Earlier timbre processing of instrumental tones compared to equally complex spectrally rotated sounds as revealed by the mismatch negativity. Neuroscience Letters, 2014, 581, 115-119.	2.1	14
46	Development of Rapid Temporal Processing and Its Impact on Literacy Skills in Primary School Children. Child Development, 2014, 85, 1711-1726.	3.0	43
47	Phonological, temporal and spectral processing in vowel length discrimination is impaired in German primary school children with developmental dyslexia. Research in Developmental Disabilities, 2014, 35, 3034-3045.	2.2	23
48	Differences in sensory processing of German vowels and physically matched non-speech sounds as revealed by the mismatch negativity (MMN) of the human event-related brain potential (ERP). Brain and Language, 2014, 136, 8-18.	1.6	18
49	Lese-RechtschreibstÃ¶rung. , 2014, , .		32
50	PrÃ¶vention von Lese-Rechtschreibschwierigkeiten und Intervention bei Lese-RechtschreibstÃ¶rung. , 2014, , 155-202.		1
51	Klassifikation und Erscheinungsbild der Lese-RechtschreibstÃ¶rung. , 2014, , 49-86.		0
52	Ursachen der Lese-RechtschreibstÃ¶rung. , 2014, , 87-123.		0
53	Entwicklung des Lesens und Schreibens. , 2014, , 17-47.		0
54	Does noise affect learning? A short review on noise effects on cognitive performance in children. Frontiers in Psychology, 2013, 4, 578.	2.1	258

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55	Creative reasoning across developmental levels: Convergence and divergence in problem creation. <i>Intelligence</i> , 2012, 40, 172-188.	3.0	47
56	Neural correlates of temporal auditory processing in developmental dyslexia during German vowel length discrimination: An fMRI study. <i>Brain and Language</i> , 2012, 121, 1-11.	1.6	32
57	Learning to read aligns visual analytical skills with grapheme-phoneme mapping: evidence from illiterates. <i>Frontiers in Evolutionary Neuroscience</i> , 2012, 4, 8.	3.7	30
58	Developmental dyslexics show deficits in the processing of temporal auditory information in German vowel length discrimination. <i>Reading and Writing</i> , 2011, 24, 285-303.	1.7	33
59	Representational economy, not processing speed, determines preferred processing strategy of visual patterns. <i>Acta Psychologica</i> , 2010, 134, 290-298.	1.5	12
60	The irrelevant sound effect in short-term memory: Is there developmental change?. <i>European Journal of Cognitive Psychology</i> , 2010, 22, 1168-1191.	1.3	66
61	Solving and Creating Raven Progressive Matrices: Reasoning in Well- and Ill-Defined Problem Spaces. <i>Creativity Research Journal</i> , 2010, 22, 304-319.	2.6	17
62	Effects of noise and reverberation on speech perception and listening comprehension of children and adults in a classroom-like setting. <i>Noise and Health</i> , 2010, 12, 270.	0.5	167
63	Contribution of the anterior insula to temporal auditory processing deficits in developmental dyslexia. <i>Human Brain Mapping</i> , 2009, 30, 2401-2411.	3.6	45
64	Different letter-processing strategies in diagnostic subgroups of developmental dyslexia also occur in a transparent orthography: Reply to a commentary by Spinelli et al.. <i>Cognitive Neuropsychology</i> , 2009, 26, 759-768.	1.1	10
65	Different time courses of Stroop and Garner effects in perception – An Event-Related Potentials Study. <i>NeuroImage</i> , 2009, 45, 1272-1288.	4.2	29
66	Controlled but Independent: Effects of Mental Rotation and Developmental Dyslexia in Dual-Task Settings. <i>Perception</i> , 2009, 38, 1019-1034.	1.2	15
67	Differentiation of holistic processing in the time course of letter recognition. <i>Acta Psychologica</i> , 2008, 129, 121-129.	1.5	20
68	Dissociating congruence effects in letters versus shapes: Kanji and kana. <i>Acta Psychologica</i> , 2008, 129, 138-146.	1.5	9
69	Goodness is central: Task invariance of perceptual organization in a dual-task setting. <i>Japanese Psychological Research</i> , 2008, 50, 193-203.	1.1	5
70	Different letter-processing strategies in diagnostic subgroups of developmental dyslexia. <i>Cognitive Neuropsychology</i> , 2008, 25, 730-744.	1.1	42
71	Procedural learning eliminates specific slowing down of response selection in patients with idiopathic Parkinson syndrome. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2008, 30, 319-326.	1.3	2
72	Paradoxical Enhancement of Letter Recognition in Developmental Dyslexia. <i>Developmental Neuropsychology</i> , 2007, 31, 61-77.	1.4	65

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73	Mental Rotation of Letters and Shapes in Developmental Dyslexia. <i>Perception</i> , 2007, 36, 617-631.	1.2	43
74	Goodness takes effort: perceptual organization in dual-task settings. <i>Psychological Research</i> , 2007, 71, 152-169.	1.7	13
75	Task-Invariant Aspects of Goodness in Perceptual Representation. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2005, 58, 1295-1310.	2.3	13
76	Individual Pattern Representations are Context Independent, but their Collective Representation is Context Dependent. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2005, 58, 1265-1294.	2.3	20
77	Evidence for impaired visuoperceptual organisation in developmental dyslexics and its relation to temporal processes. <i>Cognitive Neuropsychology</i> , 2005, 22, 499-522.	1.1	21
78	Diagnostic subgroups of developmental dyslexia have different deficits in neural processing of tones and phonemes. <i>International Journal of Psychophysiology</i> , 2005, 56, 105-120.	1.0	121
79	Negative and positive congruence effects in letters and shapes. <i>Perception & Psychophysics</i> , 2004, 66, 908-925.	2.3	52
80	Negative congruence effects in letter and pseudo-letter recognition: the role of similarity and response conflict. <i>Cognitive Processing</i> , 2004, 5, 239-248.	1.4	27
81	Memory search instead of template matching?. <i>Acta Psychologica</i> , 2002, 111, 283-307.	1.5	22
82	Event-related brain potentials dissociate visual working memory processes under categorical and identical comparison conditions. <i>Cognitive Brain Research</i> , 2000, 9, 147-155.	3.0	44
83	Does mental rotation require central mechanisms?. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1995, 21, 552-570.	0.9	109
84	Remote vocational learning opportunities – A comparative eye-tracking investigation of educational 2D videos versus 360° videos for car mechanics. <i>British Journal of Educational Technology</i> , 0, , .	6.3	7
85	Emotional Speech Perception: A set of semantically validated German neutral and emotionally affective sentences. , 0, , .		3