

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 | Does noise affect learning? A short review on noise effects on cognitive performance in children. <i>Frontiers in Psychology</i> , 2013, 4, 578. | 2.1 | 258 |
| 2 | 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 |
| 3 | 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 |
| 4 | Does mental rotation require central mechanisms?. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1995, 21, 552-570. | 0.9 | 109 |
| 5 | 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 |
| 6 | 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 |
| 7 | Paradoxical Enhancement of Letter Recognition in Developmental Dyslexia. <i>Developmental Neuropsychology</i> , 2007, 31, 61-77. | 1.4 | 65 |
| 8 | Intelligence in creative processes: An EEG study. <i>Intelligence</i> , 2015, 49, 171-178. | 3.0 | 54 |
| 9 | Negative and positive congruence effects in letters and shapes. <i>Perception & Psychophysics</i> , 2004, 66, 908-925. | 2.3 | 52 |
| 10 | 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 |
| 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 | Creative reasoning across developmental levels: Convergence and divergence in problem creation. <i>Intelligence</i> , 2012, 40, 172-188. | 3.0 | 47 |
| 13 | 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 |
| 14 | 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 |
| 15 | Mental Rotation of Letters and Shapes in Developmental Dyslexia. <i>Perception</i> , 2007, 36, 617-631. | 1.2 | 43 |
| 16 | Development of Rapid Temporal Processing and Its Impact on Literacy Skills in Primary School Children. <i>Child Development</i> , 2014, 85, 1711-1726. | 3.0 | 43 |
| 17 | Different letter-processing strategies in diagnostic subgroups of developmental dyslexia. <i>Cognitive Neuropsychology</i> , 2008, 25, 730-744. | 1.1 | 42 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Reading as functional coordination: not recycling but a novel synthesis. <i>Frontiers in Psychology</i> , 2014, 5, 1046. | 2.1 | 32 |
| 22 | Lese-Rechtschreibstörung. , 2014, , . | | 32 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Letters in the forest: global precedence effect disappears for letters but not for non-letters under reading-like conditions. <i>Frontiers in Psychology</i> , 2014, 5, 705. | 2.1 | 24 |
| 27 | Phonological, temporal and spectral processing in vowel length discrimination is impaired in German primary school children with developmental dyslexia. <i>Research in Developmental Disabilities</i> , 2014, 35, 3034-3045. | 2.2 | 23 |
| 28 | Intelligence and Creativity: Over the Threshold Together?. <i>Creativity Research Journal</i> , 2016, 28, 212-218. | 2.6 | 23 |
| 29 | SNARC (spatial–numerical association of response codes) meets SPARC (spatial–pitch association of) Tj ETQq1 1 0.784314 rgBT Experimental Psychology, 2016, 69, 1366-1383. | 1.1 | 23 |
| 30 | The culturally co-opted brain: how literacy affects the human mind. <i>Language, Cognition and Neuroscience</i> , 2018, 33, 275-277. | 1.2 | 23 |
| 31 | Memory search instead of template matching?. <i>Acta Psychologica</i> , 2002, 111, 283-307. | 1.5 | 22 |
| 32 | 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 |
| 33 | Physical and cognitive demands of work in building construction. <i>Engineering, Construction and Architectural Management</i> , 2019, 27, 745-764. | 3.1 | 21 |
| 34 | Individual Pattern Representations are Context Independent, but their Collectiverepresentation is Context Dependent. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 2005, 58, 1265-1294. | 2.3 | 20 |
| 35 | Differentiation of holistic processing in the time course of letter recognition. <i>Acta Psychologica</i> , 2008, 129, 121-129. | 1.5 | 20 |
| 36 | Evidence for a General Auditory Processing Deficit in Developmental Dyslexia From a Discrimination Paradigm Using Speech Versus Nonspeech Sounds Matched in Complexity. <i>Journal of Speech, Language, and Hearing Research</i> , 2015, 58, 107-121. | 1.6 | 20 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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). <i>Brain and Language</i> , 2014, 136, 8-18. | 1.6 | 18 |
| 39 | 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 |
| 40 | 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 |
| 41 | Controlled but Independent: Effects of Mental Rotation and Developmental Dyslexia in Dual-Task Settings. <i>Perception</i> , 2009, 38, 1019-1034. | 1.2 | 15 |
| 42 | Earlier timbre processing of instrumental tones compared to equally complex spectrally rotated sounds as revealed by the mismatch negativity. <i>Neuroscience Letters</i> , 2014, 581, 115-119. | 2.1 | 14 |
| 43 | When speech enhances Spatial Musical Association of Response Codes: Joint spatial associations of pitch and timbre in nonmusicians. <i>Quarterly Journal of Experimental Psychology</i> , 2016, 69, 1687-1700. | 1.1 | 14 |
| 44 | 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 |
| 45 | Goodness takes effort: perceptual organization in dual-task settings. <i>Psychological Research</i> , 2007, 71, 152-169. | 1.7 | 13 |
| 46 | Representational economy, not processing speed, determines preferred processing strategy of visual patterns. <i>Acta Psychologica</i> , 2010, 134, 290-298. | 1.5 | 12 |
| 47 | 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 |
| 48 | 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 |
| 49 | Performance differences between instructions on paper vs digital glasses for a simple assembly task. <i>Applied Ergonomics</i> , 2021, 94, 103423. | 3.1 | 12 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Systematic Review on the Impact of Intelligence on Cognitive Decline and Dementia Risk. <i>Frontiers in Psychiatry</i> , 2020, 11, 658. | 2.6 | 10 |
| 54 | Dissociating congruence effects in letters versus shapes: Kanji and kana. <i>Acta Psychologica</i> , 2008, 129, 138-146. | 1.5 | 9 |

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|----|--|-----|-----------|
| 55 | SNARC meets SPARC in fMRI—Interdependence of compatibility effects depends on semantic content. <i>Neuropsychologia</i> , 2015, 77, 331-338. | 1.6 | 9 |
| 56 | Attention allows the SNARC effect to operate on multiple number lines. <i>Scientific Reports</i> , 2018, 8, 13778. | 3.3 | 8 |
| 57 | Reading and Dyslexia: The Functional Coordination Framework. <i>Literacy Studies</i> , 2018, , 271-296. | 0.3 | 8 |
| 58 | Factoring in the spatial effects of symbolic number representation. <i>Biological Psychology</i> , 2020, 149, 107782. | 2.2 | 8 |
| 59 | There's a SNARC in the Size Congruity Task. <i>Frontiers in Psychology</i> , 2018, 9, 1978. | 2.1 | 7 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Problem Space Matters: Evaluation of a German Enrichment Program for Gifted Children. <i>Frontiers in Psychology</i> , 2018, 9, 569. | 2.1 | 6 |
| 64 | 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 |
| 65 | 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 |
| 66 | Goodness is central: Task invariance of perceptual organization in a dual-task setting ¹ . <i>Japanese Psychological Research</i> , 2008, 50, 193-203. | 1.1 | 5 |
| 67 | Is it really search or just matching? The influence of Goodness, number of stimuli and presentation sequence in same—different tasks. <i>Psychological Research</i> , 2015, 79, 42-63. | 1.7 | 4 |
| 68 | 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 |
| 69 | Do categorical representations modulate early automatic visual processing? A visual mismatch-negativity study. <i>Biological Psychology</i> , 2021, 163, 108139. | 2.2 | 4 |
| 70 | Multimodal Natural Human—Computer Interfaces for Computer-Aided Design: A Review Paper. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6510. | 2.5 | 4 |
| 71 | 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 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Development of a Digital Video-Based Occupational Risk Assessment Method. <i>Frontiers in Public Health</i> , 2021, 9, 683850. | 2.7 | 3 |
| 74 | Emotional Speech Perception: A set of semantically validated German neutral and emotionally affective sentences. , 0, , . | | 3 |
| 75 | Olfactory sensory and perceptual evaluation in newborn infants: A systematic review. <i>Developmental Psychobiology</i> , 2021, 63, e22201. | 1.6 | 3 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | Neural correlates of feedback processing during a sensory uncertain speech - nonspeech discrimination task. <i>Biological Psychology</i> , 2019, 144, 103-114. | 2.2 | 1 |
| 80 | 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 |
| 81 | PrÄvention von Lese-Rechtschreibschwierigkeiten und Intervention bei Lese-RechtschreibstÄrung. , 2014, , 155-202. | | 1 |
| 82 | 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 |
| 83 | Klassifikation und Erscheinungsbild der Lese-RechtschreibstÄrung. , 2014, , 49-86. | | 0 |
| 84 | Ursachen der Lese-RechtschreibstÄrung. , 2014, , 87-123. | | 0 |
| 85 | Entwicklung des Lesens und Schreibens. , 2014, , 17-47. | | 0 |