Barbara Tillmann

List of Publications by Year
in descending order

148	5,612	81900	106344
papers	citations	39 h-index	65 g-index

161	161	161	2625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Auditory and visual short-term memory: influence of material type, contour, and musical expertise. Psychological Research, 2022, 86, 421-442.	1.7	16
2	Near and far transfer: Is music special?. Memory and Cognition, 2022, 50, 339-347.	1.6	33
3	When Visual Cues Do Not Help the Beat: Evidence for a Detrimental Effect of Moving Point-Light Figures on Rhythmic Priming. Frontiers in Psychology, 2022, 13, 807987.	2.1	0
4	You got rhythm, or more: The multidimensionality of rhythmic abilities. Attention, Perception, and Psychophysics, 2022, 84, 1370-1392.	1.3	20
5	Tonal structures benefit short-term memory for real music: Evidence from non-musicians and individuals with congenital amusia. Brain and Cognition, 2022, 161, 105881.	1.8	5
6	Enhanced mismatch negativity in harmonic compared with inharmonic sounds. European Journal of Neuroscience, 2022, 56, 4583-4599.	2.6	6
7	Implicit learning of two artificial grammars. Cognitive Processing, 2021, 22, 141-150.	1.4	6
8	What you hear first, is what you get: Initial metrical cue presentation modulates syllable detection in sentence processing. Attention, Perception, and Psychophysics, 2021, 83, 1861-1877.	1.3	1
9	Rapid Assessment of Non-Verbal Auditory Perception in Normal-Hearing Participants and Cochlear Implant Users. Journal of Clinical Medicine, 2021, 10, 2093.	2.4	3
10	Listeners with congenital amusia are sensitive to context uncertainty in melodic sequences. Neuropsychologia, 2021, 158, 107911.	1.6	11
11	Processing rhythm in speech and music: Shared mechanisms and implications for developmental speech and language disorders.. Neuropsychology, 2021, 35, 771-791.	1.3	45
12	Blunted emotion judgments of body movements in Parkinsonâ€™s disease. Scientific Reports, 2021, 11, 18575.	3.3	2
13	Atypical beta power fluctuation while listening to an isochronous sequence in dyslexia. Clinical Neurophysiology, 2021, 132, 2384-2390.	1.5	6
14	The Emotional Effect of Background Music on Selective Attention of Adults. Frontiers in Psychology, 2021, 12, 729037.	2.1	3
15	Development of auditory cognition in 5â€•to 10â€yearâ€old children: focus on musical and verbal shortâ€termâ€memory. Developmental Science, 2021, , e13188.	2.4	4
16	Bach, Mozart, and Beethoven: Sorting piano excerpts based on perceived similarity using DiSTATIS. New Ideas in Psychology, 2020, 57, 100757.	1.9	1
17	Regular rhythmic primes boost P600 in grammatical error processing in dyslexic adults and matched controls. Neuropsychologia, 2020, 138, 107324.	1.6	18
18	Rhythmic and textural musical sequences differently influence syntax and semantic processing in children. Journal of Experimental Child Psychology, 2020, 191, 104711.	1.4	22

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19	Personal familiarity of music and its cerebral effect on subsequent speech processing. Scientific Reports, 2020, 10, 14854.	3.3	11
20	Recognition of musical emotions and their perceived intensity after unilateral brain damage. Cortex, 2020, 130, 78-93.	2.4	5
21	Do Temporal Regularities during Maintenance Benefit Short-term Memory in the Elderly? Inhibition Capacities Matter. Experimental Aging Research, 2020, 46, 396-415.	1.2	2
22	Rhythmic priming of grammaticality judgments in children: Duration matters. Journal of Experimental Child Psychology, 2020, 197, 104885.	1.4	11
23	A stimulus-brain coupling analysis of regular and irregular rhythms in adults with dyslexia and controls. Brain and Cognition, 2020, 140, 105531.	1.8	23
24	Is atypical rhythm a risk factor for developmental speech and language disorders?. Wiley Interdisciplinary Reviews: Cognitive Science, 2020, 11, e1528.	2.8	83
25	Music processing deficits in Landau-Kleffner syndrome: Four case studies in adulthood. Cortex, 2020, 129, 99-111.	2.4	3
26	Short- and long-term memory for pitch and non-pitch contours: Insights from congenital amusia. Brain and Cognition, 2019, 136, 103614.	1.8	23
27	Emotional prosody in congenital amusia: Impaired and spared processes. Neuropsychologia, 2019, 134, 107234.	1.6	23
28	Implicit learning of artificial grammatical structures after inferior frontal cortex lesions. PLoS ONE, 2019, 14, e0222385.	2.5	6
29	Implicit Processing of Pitch in Postlingually Deafened Cochlear Implant Users. Frontiers in Psychology, 2019, 10, 1990.	2.1	6
30	The effect of learning an individualized song on autobiographical memory recall in individuals with Alzheimerâ€™s disease: A pilot study. Journal of Clinical and Experimental Neuropsychology, 2019, 41, 760-768.	1.3	10
31	The Regularity of Rhythmic Primes Influences Syntax Processing in Adults. Auditory Perception & Cognition, 2019, 2, 163-179.	1.1	6
32	Decoding Task-Related Functional Brain Imaging Data to Identify Developmental Disorders: The Case of Congenital Amusia. Frontiers in Neuroscience, 2019, 13, 1165.	2.8	17
33	Specialized neural dynamics for verbal and tonal memory: fMRI evidence in congenital amusia. Human Brain Mapping, 2019, 40, 855-867.	3.6	44
34	Temporal dynamics of maintenance in young and old adults. Annals of the New York Academy of Sciences, 2018, 1424, 137-148.	3.8	7
35	Temporal regularities allow saving time for maintenance in working memory. Annals of the New York Academy of Sciences, 2018, 1424, 202-211.	3.8	8
36	Boosting syntax training with temporally regular musical primes in children with cochlear implants. Annals of Physical and Rehabilitation Medicine, 2018, 61, 365-371.	2.3	23

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37	Electrodermal reactivity to emotional stimuli in healthy subjects and patients with disorders of consciousness. Annals of Physical and Rehabilitation Medicine, 2018, 61, 401-406.	2.3	17
38	New evidence of a rhythmic priming effect that enhances grammaticality judgments in children. Journal of Experimental Child Psychology, 2018, 173, 371-379.	1.4	37
39	Personality Modulates the Efficacy of Art Intervention on Chronic Pain in a Population of Patients with Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2018, 63, 617-624.	2.6	13
40	Musical and verbal shortâ€term memory: insights from neurodevelopmental and neurological disorders. Annals of the New York Academy of Sciences, 2018, 1423, 155-165.	3.8	14
41	Musical emotions in congenital amusia: Impaired recognition, but preserved emotional intensity.. Neuropsychology, 2018, 32, 880-894.	1.3	24
42	Boosting maintenance in working memory with temporal regularities.. Journal of Experimental Psychology: Learning Memory and Cognition, 2018, 44, 812-818.	0.9	17
43	Learning of pitch and time structures in an artificial grammar setting.. Journal of Experimental Psychology: Learning Memory and Cognition, 2018, 44, 1201-1214.	0.9	8
44	Verbal and musical short-term memory: Variety of auditory disorders after stroke. Brain and Cognition, 2017, 113, 10-22.	1.8	22
45	Expertise shapes domainâ€specific functional cerebral asymmetry during mental imagery: the case of culinary arts and music. European Journal of Neuroscience, 2017, 45, 1524-1537.	2.6	6
46	Effects of preference and sensory modality on behavioural reaction in patients with disorders of consciousness. Brain Injury, 2017, 31, 1307-1311.	1.2	22
47	Can Musical or Painting Interventions Improve Chronic Pain, Mood, Quality of Life, and Cognition in Patients with Mild Alzheimerâ€™s Disease? Evidence from a Randomized Controlled Trial. Journal of Alzheimer's Disease, 2017, 60, 663-677.	2.6	81
48	Familiar units prevail over statistical cues in word segmentation. Psychological Research, 2017, 81, 990-1003.	1.7	13
49	Factors affecting pitch discrimination performance in a cohort of extensively phenotyped healthy volunteers. Scientific Reports, 2017, 7, 16480.	3.3	13
50	Temporally Regular Musical Primes Facilitate Subsequent Syntax Processing in Children with Specific Language Impairment. Frontiers in Neuroscience, 2016, 10, 245.	2.8	44
51	Editorial: Music and Disorders of Consciousness: Emerging Research, Practice and Theory. Frontiers in Psychology, 2016, 7, 1273.	2.1	6
52	Implicit learning of between-group intervals in auditory temporal structures. Attention, Perception, and Psychophysics, 2016, 78, 1728-1743.	1.3	7
53	Sensory, Cognitive, and Sensorimotor Learning Effects in Recognition Memory for Music. Journal of Cognitive Neuroscience, 2016, 28, 1111-1126.	2.3	19
54	Altered intrinsic connectivity of the auditory cortex in congenital amusia. Journal of Neurophysiology, 2016, 116, 88-97.	1.8	34

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55	The role of auditory feedback in music-supported stroke rehabilitation: A single-blinded randomised controlled intervention. Restorative Neurology and Neuroscience, 2016, 34, 297-311.	0.7	23
56	Impaired encoding of rapid pitch information underlies perception and memory deficits in congenital amusia. Scientific Reports, 2016, 6, 18861.	3.3	30
57	Discrimination of tonal and atonal music in congenital amusia: The advantage of implicit tasks. Neuropsychologia, 2016, 85, 10-18.	1.6	21
58	Pitch-Responsive Cortical Regions in Congenital Amusia. Journal of Neuroscience, 2016, 36, 2986-2994.	3.6	51
59	Impaired short-term memory for pitch in congenital amusia. Brain Research, 2016, 1640, 251-263.	2.2	65
60	Memory improvement with wide-awake listeners and with nonclassical guitar music.. Psychomusicology: Music, Mind and Brain, 2016, 26, 26-34.	0.3	2
61	French validation of the Barcelona Music Reward Questionnaire. PeerJ, 2016, 4, e1760.	2.0	12
62	Introduction toThe Neurosciences and Music V: Cognitive Stimulation and Rehabilitation. Annals of the New York Academy of Sciences, 2015, 1337, vii-ix.	3.8	10
63	Altered retrieval of melodic information in congenital amusia: insights from dynamic causal modeling of MEG data. Frontiers in Human Neuroscience, 2015, 9, 20.	2.0	55
64	Response: A commentary on: â€œNeural overlap in processing music and speechâ€• Frontiers in Human Neuroscience, 2015, 9, 491.	2.0	5
65	Promoting the use of personally relevant stimuli for investigating patients with disorders of consciousness. Frontiers in Psychology, 2015, 6, 1102.	2.1	67
66	Exploration of Functional Connectivity During Preferred Music Stimulation in Patients with Disorders of Consciousness. Frontiers in Psychology, 2015, 6, 1704.	2.1	40
67	Congenital amusias. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2015, 129, 589-605.	1.8	60
68	Sensorimotor Learning Enhances Expectations During Auditory Perception. Cerebral Cortex, 2015, 25, 2238-2254.	2.9	30
69	Auditory feedback in error-based learning of motor regularity. Brain Research, 2015, 1606, 54-67.	2.2	22
70	Shortâ€•and longâ€term rhythmic interventions: perspectives for language rehabilitation. Annals of the New York Academy of Sciences, 2015, 1337, 32-39.	3.8	69
71	Boosting Cognition With Music in Patients With Disorders of Consciousness. Neurorehabilitation and Neural Repair, 2015, 29, 734-742.	2.9	67
72	The feeling of familiarity for music in patients with a unilateral temporal lobe lesion: A gating study. Neuropsychologia, 2015, 77, 313-320.	1.6	6

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73	Verbal and musical memory: Selectivity of auditory disorders after stroke. Annals of Physical and Rehabilitation Medicine, 2015, 58, e69-e70.	2.3	0
74	Boosting pitch encoding with audiovisual interactions in congenital amusia. Neuropsychologia, 2015, 67, 111-120.	1.6	11
75	Thresholds of Auditory-Motor Coupling Measured with a Simple Task in Musicians and Non-Musicians: Was the Sound Simultaneous to the Key Press?. PLoS ONE, 2014, 9, e87176.	2.5	20
76	Metrical Presentation Boosts Implicit Learning of Artificial Grammar. PLoS ONE, 2014, 9, e112233.	2.5	18
77	Empirical evidence for musical syntax processing? Computer simulations reveal the contribution of auditory short-term memory. Frontiers in Systems Neuroscience, 2014, 8, 94.	2.5	44
78	The influence of temporal regularities on the implicit learning of pitch structures. Quarterly Journal of Experimental Psychology, 2014, 67, 2360-2380.	1.1	26
79	A combined model of sensory and cognitive representations underlying tonal expectations in music: From audio signals to behavior.. Psychological Review, 2014, 121, 33-65.	3.8	64
80	The role of expectation in music: from the score to emotions and the brain. Wiley Interdisciplinary Reviews: Cognitive Science, 2014, 5, 105-113.	2.8	15
81	New evidence for chunk-based models in word segmentation. Acta Psychologica, 2014, 149, 1-8.	1.5	24
82	Musical familiarity in congenital amusia: Evidence from a gating paradigm. Cortex, 2014, 59, 84-94.	2.4	35
83	Does tonality boost short-term memory in congenital amusia?. Brain Research, 2013, 1537, 224-232.	2.2	41
84	Regularity of unit length boosts statistical learning in verbal and nonverbal artificial languages. Psychonomic Bulletin and Review, 2013, 20, 142-147.	2.8	23
85	Working memory for pitch, timbre, and words. Memory, 2013, 21, 377-395.	1.7	29
86	Musical expectations within chord sequences: Facilitation due to tonal stability without closure effects.. Psychomusicology: Music, Mind and Brain, 2013, 23, 1-5.	0.3	10
87	Impaired pitch perception and memory in congenital amusia: the deficit starts in the auditory cortex. Brain, 2013, 136, 1639-1661.	7.6	213
88	The implicit learning of metrical and nonmetrical temporal patterns. Quarterly Journal of Experimental Psychology, 2013, 66, 360-380.	1.1	29
89	Rhythmic auditory stimulation influences syntactic processing in children with developmental language disorders.. Neuropsychology, 2013, 27, 121-131.	1.3	119
90	Expectations in culturally unfamiliar music: influences of proximal and distal cues and timbral characteristics. Frontiers in Psychology, 2013, 4, 789.	2.1	6

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91	A Sequence Identification Measurement Model to Investigate the Implicit Learning of Metrical Temporal Patterns. PLoS ONE, 2013, 8, e75163.	2.5	1
92	Working Memory for Tonal and Atonal Sequences during a Forward and a Backward Recognition Task. Music Perception, 2012, 29, 255-267.	1.1	49
93	Priming paradigm reveals harmonic structure processing in congenital amusia. Cortex, 2012, 48, 1073-1078.	2.4	49
94	Working Memory Is Partially Preserved during Sleep. PLoS ONE, 2012, 7, e50997.	2.5	23
95	Incidental Learning of Temporal Structures Conforming to a Metrical Framework. Frontiers in Psychology, 2012, 3, 294.	2.1	18
96	Shared structural and temporal integration resources for music and arithmetic processing. Acta Psychologica, 2012, 140, 230-235.	1.5	10
97	Cognitive and methodological considerations on the effects of musical expertise on speech segmentation. Annals of the New York Academy of Sciences, 2012, 1252, 108-115.	3.8	15
98	Music and Language Perception: Expectations, Structural Integration, and Cognitive Sequencing. Topics in Cognitive Science, 2012, 4, 568-584.	1.9	55
99	The Influence of Task-Irrelevant Music on Language Processing: Syntactic and Semantic Structures. Frontiers in Psychology, 2011, 2, 112.	2.1	41
100	Congenital Amusia (or Tone-Deafness) Interferes with Pitch Processing in Tone Languages. Frontiers in Psychology, 2011, 2, 120.	2.1	73
101	Facilitated Auditory Detection for Speech Sounds. Frontiers in Psychology, 2011, 2, 176.	2.1	9
102	Categorization of Extremely Brief Auditory Stimuli: Domain-Specific or Domain-General Processes?. PLoS ONE, 2011, 6, e27024.	2.5	28
103	Learning of timing patterns and the development of temporal expectations. Psychological Research, 2011, 75, 243-258.	1.7	20
104	Tonal Expectations Influence Early Pitch Processing. Journal of Cognitive Neuroscience, 2011, 23, 3095-3104.	2.3	23
105	Fine-grained pitch processing of music and speech in congenital amusia. Journal of the Acoustical Society of America, 2011, 130, 4089-4096.	1.1	41
106	Subliminal Semantic Priming in Speech. PLoS ONE, 2011, 6, e20273.	2.5	12
107	Laterality effects for musical structure processing: A dichotic listening study.. Neuropsychology, 2010, 24, 661-666.	1.3	12
108	Judging familiarity and emotion from very brief musical excerpts. Psychonomic Bulletin and Review, 2010, 17, 335-341.	2.8	50

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109	Exploiting Multiple Sources of Information in Learning an Artificial Language: Human Data and Modeling. Cognitive Science, 2010, 34, 255-285.	1.7	31
110	Temporal Aspects of the Feeling of Familiarity for Music and the Emergence of Conceptual Processing. Journal of Cognitive Neuroscience, 2010, 22, 1754-1769.	2.3	27
111	Effect of rhythmic attention on the segregation of interleaved melodies. Journal of the Acoustical Society of America, 2010, 128, EL1-EL7.	1.1	42
112	Auditory expectations for newly acquired structures. Quarterly Journal of Experimental Psychology, 2010, 63, 1646-1664.	1.1	37
113	The Amusic Brain: Lost in Music, but Not in Space. PLoS ONE, 2010, 5, e10173.	2.5	32
114	Tonal Priming Beyond Tonics. Music Perception, 2009, 26, 211-221.	1.1	23
115	Music Lexical Networks. Annals of the New York Academy of Sciences, 2009, 1169, 256-265.	3.8	92
116	Tonal Language Processing in Congenital Amusia. Annals of the New York Academy of Sciences, 2009, 1169, 490-493.	3.8	32
117	Part IV Introduction. Annals of the New York Academy of Sciences, 2009, 1169, 214-215.	3.8	3
118	Congenital amusia: A short-term memory deficit for non-verbal, but not verbal sounds. Brain and Cognition, 2009, 71, 259-264.	1.8	133
119	Unspoken knowledge: Implicit learning of structured human dance movement.. Journal of Experimental Psychology: Learning Memory and Cognition, 2009, 35, 1570-1577.	0.9	63
120	Tonal expectations influence pitch perception. Perception & Psychophysics, 2008, 70, 841-852.	2.3	40
121	The tonal function of a task-irrelevant chord modulates speed of visual processing. Cognition, 2008, 107, 1070-1083.	2.2	28
122	Discontinuity in the enumeration of sequentially presented auditory and visual stimuli. Cognition, 2008, 107, 1135-1143.	2.2	35
123	Cerebellar patients demonstrate preserved implicit knowledge of association strengths in musical sequences. Brain and Cognition, 2008, 66, 161-167.	1.8	13
124	PERCEPTION OF TONAL AND TEMPORAL STRUCTURES IN CHORD SEQUENCES BY PATIENTS WITH CEREBELLAR DAMAGE. Music Perception, 2008, 25, 271-283.	1.1	9
125	ON-LINE IDENTIFICATION OF CONGENITAL AMUSIA. Music Perception, 2008, 25, 331-343.	1.1	93
126	The Feeling of Familiarity of Music and Odors: The Same Neural Signature?. Cerebral Cortex, 2007, 17, 2650-2658.	2.9	110

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127	Harmonic priming in an amusic patient: The power of implicit tasks. Cognitive Neuropsychology, 2007, 24, 603-622.	1.1	43
128	Influence of a toneâ€™s tonal function on temporal change detection. Perception & Psychophysics, 2007, 69, 1450-1459.	2.3	19
129	Memory decreases for prose, but not for poetry. Memory and Cognition, 2007, 35, 628-639.	1.6	61
130	Cognitive priming in sung and instrumental music: Activation of inferior frontal cortex. NeuroImage, 2006, 31, 1771-1782.	4.2	164
131	A module for syntactic processing in music?. Trends in Cognitive Sciences, 2006, 10, 195-196.	7.8	19
132	Influence of tonal and temporal expectations on chord processing and on completion judgments of chord sequences. Psychological Research, 2006, 70, 345-358.	1.7	50
133	Implicit Investigations of Tonal Knowledge in Nonmusician Listeners. Annals of the New York Academy of Sciences, 2005, 1060, 100-110.	3.8	71
134	Further Investigation of Harmonic Priming in Long Contexts Using Musical Timbre as Surface Marker to Control for Temporal Effects. Perceptual and Motor Skills, 2004, 98, 450-458.	1.3	2
135	Implicit Learning of Musical Timbre Sequences: Statistical Regularities Confronted With Acoustical (Dis)Similarities.. Journal of Experimental Psychology: Learning Memory and Cognition, 2004, 30, 1131-1142.	0.9	70
136	The Relative Importance of Local and Global Structures in Music Perception. Journal of Aesthetics and Art Criticism, 2004, 62, 211-222.	0.4	44
137	Activation of the inferior frontal cortex in musical priming. Cognitive Brain Research, 2003, 16, 145-161.	3.0	236
138	Online Detection of Tonal Pop-Out in Modulating Contexts. Music Perception, 2003, 20, 283-305.	1.1	11
139	The costs and benefits of tonal centers for chord processing.. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 470-482.	0.9	43
140	Sensory versus cognitive components in harmonic priming.. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 159-171.	0.9	55
141	Effect of harmonic relatedness on the detection of temporal asynchronies. Perception & Psychophysics, 2002, 64, 640-649.	2.3	35
142	The Cortical Topography of Tonal Structures Underlying Western Music. Science, 2002, 298, 2167-2170.	12.6	320
143	The effect of harmonic context on phoneme monitoring in vocal music. Cognition, 2001, 81, B11-B20.	2.2	114
144	Implicit learning of tonality: A self-organizing approach.. Psychological Review, 2000, 107, 885-913.	3.8	335

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145	Effect of global structure and temporal organization on chord processing.. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 184-197.	0.9	85
146	Influence of Global Structure on Musical Target Detection and Recognition. International Journal of Psychology, 1998, 33, 107-122.	2.8	22
147	Effects of Global and Local Contexts on Harmonic Expectancy. Music Perception, 1998, 16, 99-117.	1.1	72
148	Does Formal Musical Structure Affect Perception of Musical Expressiveness?. Psychology of Music, 1996, 24, 3-17.	1.6	39