

# Stefan Koelsch

## List of Publications by Year in descending order

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147  
papers

16,080  
citations

14614

66  
h-index

17546

121  
g-index

151  
all docs

151  
docs citations

151  
times ranked

7950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tormenting thoughts: The posterior cingulate sulcus of the default mode network regulates valence of thoughts and activity in the brain's pain network during music listening. <i>Human Brain Mapping</i> , 2022, 43, 773-786.	1.9	6
2	Unpredictability of the "when" influences prediction error processing of the "what" and "where". <i>PLoS ONE</i> , 2022, 17, e0263373.	1.1	5
3	The promise of music therapy for Alzheimer's disease: A review. <i>Annals of the New York Academy of Sciences</i> , 2022, 1516, 11-17.	1.8	32
4	Cortical thickness and resting-state cardiac function across the lifespan: A cross-sectional pooled mega-analysis. <i>Psychophysiology</i> , 2021, 58, e13688.	1.2	33
5	Trait Empathy Shapes Neural Responses Toward Sad Music. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 231-241.	1.0	9
6	Neocortical substrates of feelings evoked with music in the ACC, insula, and somatosensory cortex. <i>Scientific Reports</i> , 2021, 11, 10119.	1.6	17
7	A coordinate-based meta-analysis of music-evoked emotions. <i>NeuroImage</i> , 2020, 223, 117350.	2.1	52
8	The musical brain. , 2020, , 1-40.		1
9	Aesthetic emotions are a key factor in aesthetic evaluation: Reply to Skov and Nadal (2020).. <i>Psychological Review</i> , 2020, 127, 650-654.	2.7	15
10	Heroic music stimulates empowering thoughts during mind-wandering. <i>Scientific Reports</i> , 2019, 9, 10317.	1.6	24
11	Uncertainty and Surprise Jointly Predict Musical Pleasure and Amygdala, Hippocampus, and Auditory Cortex Activity. <i>Current Biology</i> , 2019, 29, 4084-4092.e4.	1.8	119
12	When the statistical MMN meets the physical MMN. <i>Scientific Reports</i> , 2019, 9, 5563.	1.6	23
13	The Effect of Emotional Valence on Ventricular Repolarization Dynamics Is Mediated by Heart Rate Variability: A Study of QT Variability and Music-Induced Emotions. <i>Frontiers in Physiology</i> , 2019, 10, 1465.	1.3	8
14	Predictive Processes and the Peculiar Case of Music. <i>Trends in Cognitive Sciences</i> , 2019, 23, 63-77.	4.0	287
15	What are aesthetic emotions?. <i>Psychological Review</i> , 2019, 126, 171-195.	2.7	165
16	Auditory Working Memory. <i>Springer Handbooks</i> , 2018, , 461-472.	0.3	17
17	The right inferior frontal gyrus processes nested non-local dependencies in music. <i>Scientific Reports</i> , 2018, 8, 3822.	1.6	54
18	Investigating the Neural Encoding of Emotion with Music. <i>Neuron</i> , 2018, 98, 1075-1079.	3.8	53

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19	Hippocampal-Temporopolar Connectivity Contributes to Episodic Simulation During Social Cognition. <i>Scientific Reports</i> , 2018, 8, 9409.	1.6	14
20	Identifying Emotional Specificity in Complex Large-Scale Brain Networks. <i>Emotion Review</i> , 2018, 10, 217-218.	2.1	4
21	The auditory cortex hosts network nodes influential for emotion processing: An fMRI study on music-evoked fear and joy. <i>PLoS ONE</i> , 2018, 13, e0190057.	1.1	47
22	<i>Neurowissenschaften.</i> , 2018, , 140-144.		1
23	The Temporal Pole Top-Down Modulates the Ventral Visual Stream During Social Cognition. <i>Cerebral Cortex</i> , 2017, 27, bhv226.	1.6	55
24	The Distancing-Embracing model of the enjoyment of negative emotions in art reception. <i>Behavioral and Brain Sciences</i> , 2017, 40, e347.	0.4	134
25	The emotional power of poetry: neural circuitry, psychophysiology and compositional principles. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 1229-1240.	1.5	171
26	Effects of Sad and Happy Music on Mind-Wandering and the Default Mode Network. <i>Scientific Reports</i> , 2017, 7, 14396.	1.6	102
27	Negative emotions in art reception: Refining theoretical assumptions and adding variables to the Distancing-Embracing model. <i>Behavioral and Brain Sciences</i> , 2017, 40, e380.	0.4	10
28	Language and music phrase boundary processing in Autism Spectrum Disorder: An ERP study. <i>Scientific Reports</i> , 2017, 7, 14465.	1.6	11
29	Implications of the Vienna Integrated Model of Art Perception for art-based interventions in clinical populations: Comment on "Move me, astonish me... delight my eyes and brain: The Vienna Integrated Model of top-down and bottom-up processes in Art Perception (VIMAP) and corresponding affective, evaluative, and neurophysiological correlates" by Matthew Pelowski et al.. <i>Physics of Life Reviews</i> , 2017, 21, 145-147.	1.5	2
30	Effects of music therapy and music-based interventions in the treatment of substance use disorders: A systematic review. <i>PLoS ONE</i> , 2017, 12, e0187363.	1.1	67
31	The impact of acute stress on hormones and cytokines and how their recovery is affected by music-evoked positive mood. <i>Scientific Reports</i> , 2016, 6, 23008.	1.6	89
32	Effects of veridical expectations on syntax processing in music: Event-related potential evidence. <i>Scientific Reports</i> , 2016, 6, 19064.	1.6	21
33	Under the hood of statistical learning: A statistical MMN reflects the magnitude of transitional probabilities in auditory sequences. <i>Scientific Reports</i> , 2016, 6, 19741.	1.6	70
34	Neurophysiological Correlates of Musical and Prosodic Phrasing: Shared Processing Mechanisms and Effects of Musical Expertise. <i>PLoS ONE</i> , 2016, 11, e0155300.	1.1	12
35	Toward a general psychological model of tension and suspense. <i>Frontiers in Psychology</i> , 2015, 6, 79.	1.1	102
36	Autonomic Effects of Music in Health and Crohn's Disease: The Impact of Isochronicity, Emotional Valence, and Tempo. <i>PLoS ONE</i> , 2015, 10, e0126224.	1.1	33

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37	Tensionâ€resolution patterns as a key element of aesthetic experience: Psychological principles and underlying brain mechanisms. , 2015, , 285-302.		8
38	Instruments, conductors, dancers, and intendants. Physics of Life Reviews, 2015, 13, 99-106.	1.5	2
39	The effects of supervised learning on event-related potential correlates of music-syntactic processing. Brain Research, 2015, 1626, 232-246.	1.1	11
40	Musicâevoked emotions: principles, brain correlates, and implications for therapy. Annals of the New York Academy of Sciences, 2015, 1337, 193-201.	1.8	91
41	The quartet theory of human emotions: An integrative and neurofunctional model. Physics of Life Reviews, 2015, 13, 1-27.	1.5	159
42	Music and the heart. European Heart Journal, 2015, 36, 3043-3049.	1.0	153
43	Amygdala and orbitofrontal engagement in breach and resolution of expectancy: A case study.. Psychomusicology: Music, Mind and Brain, 2015, 25, 357-365.	1.1	9
44	Reading a Suspenseful Literary Text Activates Brain Areas Related to Social Cognition and Predictive Inference. PLoS ONE, 2015, 10, e0124550.	1.1	62
45	Effects of Aesthetic Chills on a Cardiac Signature of Emotionality. PLoS ONE, 2015, 10, e0130117.	1.1	45
46	From music perception to an integrative framework for the psychology of aesthetics. , 2014, , 300-336.		3
47	Music-evoked incidental happiness modulates probability weighting during risky lottery choices. Frontiers in Psychology, 2014, 4, 981.	1.1	40
48	How emotional abilities modulate the influence of early life stress on hippocampal functioning. Social Cognitive and Affective Neuroscience, 2014, 9, 1038-1045.	1.5	26
49	Tension-related activity in the orbitofrontal cortex and amygdala: an fMRI study with music. Social Cognitive and Affective Neuroscience, 2014, 9, 1515-1523.	1.5	73
50	Differential effects of early life stress on hippocampus and amygdala volume as a function of emotional abilities. Hippocampus, 2014, 24, 1094-1101.	0.9	20
51	Brain correlates of music-evoked emotions. Nature Reviews Neuroscience, 2014, 15, 170-180.	4.9	819
52	Functional centrality of amygdala, striatum and hypothalamus in a â€small-worldâ€network underlying joy: An fMRI study with music. Human Brain Mapping, 2014, 35, 3485-3498.	1.9	86
53	How music alters a kiss: superior temporal gyrus controls fusiformâ€amygdalar effective connectivity. Social Cognitive and Affective Neuroscience, 2014, 9, 1770-1778.	1.5	34
54	Superficial amygdala and hippocampal activity during affective music listening observed at 3 T but not 1.5 T fMRI. NeuroImage, 2014, 101, 364-369.	2.1	10

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55	Neural correlates of music-syntactic processing in two-year old children. <i>Developmental Cognitive Neuroscience</i> , 2014, 9, 200-208.	1.9	27
56	The Paradox of Music-Evoked Sadness: An Online Survey. <i>PLoS ONE</i> , 2014, 9, e110490.	1.1	152
57	Auditory stroop and absolute pitch: An fMRI study. <i>Human Brain Mapping</i> , 2013, 34, 1579-1590.	1.9	40
58	The roles of superficial amygdala and auditory cortex in music-evoked fear and joy. <i>NeuroImage</i> , 2013, 81, 49-60.	2.1	116
59	Syntax in a pianist's hand: ERP signatures of "embodied" syntax processing in music. <i>Cortex</i> , 2013, 49, 1325-1339.	1.1	47
60	Co-localizing linguistic and musical syntax with intracranial EEG. <i>NeuroImage</i> , 2013, 64, 134-146.	2.1	60
61	The Influence of Different Structural Features on Felt Musical Tension in Two Piano Pieces by Mozart and Mendelssohn. <i>Music Perception</i> , 2013, 31, 171-185.	0.5	23
62	Processing of hierarchical syntactic structure in music. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15443-15448.	3.3	165
63	Emotion and music in narrative films: A neuroscientific perspective. , 2013, , 118-138.		7
64	From Understanding to Appreciating Music Cross-Culturally. <i>PLoS ONE</i> , 2013, 8, e72500.	1.1	13
65	Neural Correlates of Emotional Personality: A Structural and Functional Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2013, 8, e77196.	1.1	94
66	fMRI Scanner Noise Interaction with Affective Neural Processes. <i>PLoS ONE</i> , 2013, 8, e80564.	1.1	28
67	Music in depression: Neural correlates of emotional experience in remitted depression. <i>World Journal of Psychiatry</i> , 2013, 3, 8.	1.3	11
68	Music and Action. <i>A NIME Reader Fifteen Years of New Interfaces for Musical Expression</i> , 2013, , 157-180.	0.1	1
69	Predictive information processing in music cognition. A critical review. <i>International Journal of Psychophysiology</i> , 2012, 83, 164-175.	0.5	151
70	Electrophysiological correlates of verbal and tonal working memory. <i>Brain Research</i> , 2012, 1432, 84-94.	1.1	7
71	Working memory for speech and music. <i>Annals of the New York Academy of Sciences</i> , 2012, 1252, 229-236.	1.8	96
72	The Brain and Positive Biological Effects in Healthy and Clinical Populations. , 2012, , 437-456.		18

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73	Cardiac Signatures of Personality. PLoS ONE, 2012, 7, e31441.	1.1	23
74	Affective Priming Effects of Musical Sounds on the Processing of Word Meaning. Journal of Cognitive Neuroscience, 2011, 23, 604-621.	1.1	87
75	Are left fronto-temporal brain areas a prerequisite for normal music-syntactic processing?. Cortex, 2011, 47, 659-673.	1.1	79
76	Effects of Music Listening on Cortisol Levels and Propofol Consumption during Spinal Anesthesia. Frontiers in Psychology, 2011, 2, 58.	1.1	85
77	Toward a Neural Basis of Music Perception – A Review and Updated Model. Frontiers in Psychology, 2011, 2, 110.	1.1	265
78	Can out-of-context musical sounds convey meaning? An ERP study on the processing of meaning in music. Psychophysiology, 2011, 48, 645-655.	1.2	43
79	Shadows of music-language interaction on low frequency brain oscillatory patterns. Brain and Language, 2011, 119, 50-57.	0.8	16
80	Towards a neural basis of processing musical semantics. Physics of Life Reviews, 2011, 8, 89-105.	1.5	71
81	Neuroarchitecture of verbal and tonal working memory in nonmusicians and musicians. Human Brain Mapping, 2011, 32, 771-783.	1.9	182
82	Effects of Selective Attention on Syntax Processing in Music and Language. Journal of Cognitive Neuroscience, 2011, 23, 2252-2267.	1.1	48
83	A method for continuously assessing the autonomic response to music-induced emotions through HRV analysis. Medical and Biological Engineering and Computing, 2010, 48, 423-433.	1.6	96
84	Spatial selective attention in a complex auditory environment such as polyphonic music. Journal of the Acoustical Society of America, 2010, 127, 472-480.	0.5	13
85	Functional specializations for music processing in the human newborn brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4758-4763.	3.3	253
86	Music in the Treatment of Affective Disorders: An Exploratory Investigation of a New Method for Music-Therapeutic Research. Music Perception, 2010, 27, 307-316.	0.5	60
87	Processing Expectancy Violations during Music Performance and Perception: An ERP Study. Journal of Cognitive Neuroscience, 2010, 22, 2401-2413.	1.1	66
88	Differences in Electric Brain Responses to Melodies and Chords. Journal of Cognitive Neuroscience, 2010, 22, 2251-2262.	1.1	76
89	Towards a neural basis of music-evoked emotions. Trends in Cognitive Sciences, 2010, 14, 131-137.	4.0	457
90	Understanding the Intentions Behind Man-Made Products Elicits Neural Activity in Areas Dedicated to Mental State Attribution. Cerebral Cortex, 2009, 19, 619-623.	1.6	80

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91	Universal Recognition of Three Basic Emotions in Music. <i>Current Biology</i> , 2009, 19, 573-576.	1.8	398
92	Functional architecture of verbal and tonal working memory: An fMRI study. <i>Human Brain Mapping</i> , 2009, 30, 859-873.	1.9	273
93	Decrease in early right alpha band phase synchronization and late gamma band oscillations in processing syntax in music. <i>Human Brain Mapping</i> , 2009, 30, 1207-1225.	1.9	36
94	A Neuroscientific Perspective on Music Therapy. <i>Annals of the New York Academy of Sciences</i> , 2009, 1169, 374-384.	1.8	249
95	Music's syntactic processing and auditory memory: Similarities and differences between ERAN and MMN. <i>Psychophysiology</i> , 2009, 46, 179-190.	1.2	144
96	Impulsive aggressiveness of pregnant women affects the development of the fetal heart. <i>International Journal of Psychophysiology</i> , 2009, 74, 243-249.	0.5	5
97	P3a and mismatch negativity in individuals with moderate Intermittent Explosive Disorder. <i>Neuroscience Letters</i> , 2009, 460, 21-26.	1.0	9
98	Musical training modulates the development of syntax processing in children. <i>NeuroImage</i> , 2009, 47, 735-744.	2.1	160
99	Nobody Is Perfect: ERP Effects Prior to Performance Errors in Musicians Indicate Fast Monitoring Processes. <i>PLoS ONE</i> , 2009, 4, e5032.	1.1	74
100	Short-term effects of processing musical syntax: An ERP study. <i>Brain Research</i> , 2008, 1212, 55-62.	1.1	62
101	EEG correlates of moderate intermittent explosive disorder. <i>Clinical Neurophysiology</i> , 2008, 119, 151-162.	0.7	25
102	Shared Neural Resources between Music and Language Indicate Semantic Processing of Musical Tension-Resolution Patterns. <i>Cerebral Cortex</i> , 2008, 18, 1169-1178.	1.6	148
103	The role of semantic association and emotional contagion for the induction of emotion with music. <i>Behavioral and Brain Sciences</i> , 2008, 31, 579-580.	0.4	7
104	Children with Specific Language Impairment Also Show Impairment of Music-syntactic Processing. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 1940-1951.	1.1	90
105	Amygdala activity can be modulated by unexpected chord functions during music listening. <i>NeuroReport</i> , 2008, 19, 1815-1819.	0.6	141
106	Effects of Unexpected Chords and of Performer's Expression on Brain Responses and Electrodermal Activity. <i>PLoS ONE</i> , 2008, 3, e2631.	1.1	73
107	Cognitive Components of Regularity Processing in the Auditory Domain. <i>PLoS ONE</i> , 2008, 3, e2650.	1.1	21
108	Comparing the Processing of Music and Language Meaning Using EEG and fMRI Provides Evidence for Similar and Distinct Neural Representations. <i>PLoS ONE</i> , 2008, 3, e2226.	1.1	73

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109	A cardiac signature of emotionality. <i>European Journal of Neuroscience</i> , 2007, 26, 3328-3338.	1.2	52
110	Music and emotion: Electrophysiological correlates of the processing of pleasant and unpleasant music. <i>Psychophysiology</i> , 2007, 44, 293-304.	1.2	460
111	Untangling syntactic and sensory processing: An ERP study of music perception. <i>Psychophysiology</i> , 2007, 44, 476-490.	1.2	137
112	The Role of Harmonic Expectancy Violations in Musical Emotions: Evidence from Subjective, Physiological, and Neural Responses. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 1380-1393.	1.1	334
113	Significance of Broca's Area and Ventral Premotor Cortex for Music-Syntactic Processing. <i>Cortex</i> , 2006, 42, 518-520.	1.1	70
114	Auditory processing during deep propofol sedation and recovery from unconsciousness. <i>Clinical Neurophysiology</i> , 2006, 117, 1746-1759.	0.7	72
115	Investigating emotion with music: An fMRI study. <i>Human Brain Mapping</i> , 2006, 27, 239-250.	1.9	802
116	Processing of Musical Syntax Tonic versus Subdominant: An Event-related Potential Study. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 1545-1554.	1.1	51
117	Gehirn, Musik, Plastizität und Entwicklung. , 2006, , 51-70.		1
118	The effects of anesthetics on brain activity and cognitive function. <i>Current Opinion in Anaesthesiology</i> , 2005, 18, 625-631.	0.9	87
119	Investigating the Relationship of Music and Language in Children: Influences of Musical Training and Language Impairment. <i>Annals of the New York Academy of Sciences</i> , 2005, 1060, 231-242.	1.8	53
120	Investigating Emotion with Music: Neuroscientific Approaches. <i>Annals of the New York Academy of Sciences</i> , 2005, 1060, 412-418.	1.8	92
121	Emotional Processing of Harmonic Expectancy Violations. <i>Annals of the New York Academy of Sciences</i> , 2005, 1060, 457-461.	1.8	10
122	Neural substrates of processing syntax and semantics in music. <i>Current Opinion in Neurobiology</i> , 2005, 15, 207-212.	2.0	220
123	Pitch discrimination accuracy in musicians vs nonmusicians: an event-related potential and behavioral study. <i>Experimental Brain Research</i> , 2005, 161, 1-10.	0.7	250
124	Adults and children processing music: An fMRI study. <i>NeuroImage</i> , 2005, 25, 1068-1076.	2.1	333
125	Interaction between Syntax Processing in Language and in Music: An ERP Study. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 1565-1577.	1.1	237
126	Towards a neural basis of music perception. <i>Trends in Cognitive Sciences</i> , 2005, 9, 578-584.	4.0	466



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127	Music, language and meaning: brain signatures of semantic processing. <i>Nature Neuroscience</i> , 2004, 7, 302-307.	7.1	400
128	Music perception in cochlear implant users: an event-related potential study. <i>Clinical Neurophysiology</i> , 2004, 115, 966-972.	0.7	48
129	Sequential Effects of Increasing Propofol Sedation on Frontal and Temporal Cortices as Indexed by Auditory Event-related Potentials. <i>Anesthesiology</i> , 2004, 100, 617-625.	1.3	77
130	Toward the Neural Basis of Processing Structure in Music. <i>Annals of the New York Academy of Sciences</i> , 2003, 999, 15-28.	1.8	112
131	Children Processing Music: Electric Brain Responses Reveal Musical Competence and Gender Differences. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 683-693.	1.1	104
132	Processing Tonal Modulations: An ERP Study. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 1149-1159.	1.1	55
133	Electric brain responses reveal gender differences in music processing. <i>NeuroReport</i> , 2003, 14, 709-713.	0.6	89
134	Children processing music: electric brain responses reveal musical competence and gender differences. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 683-93.	1.1	42
135	Electric brain responses to inappropriate harmonies during listening to expressive music. <i>Clinical Neurophysiology</i> , 2002, 113, 862-869.	0.7	65
136	Bach Speaks: A Cortical "Language-Network" Serves the Processing of Music. <i>NeuroImage</i> , 2002, 17, 956-966.	2.1	445
137	Music matters: Preattentive musicality of the human brain. <i>Psychophysiology</i> , 2002, 39, 38-48.	1.2	104
138	Effects of musical expertise on the early right anterior negativity: An event-related brain potential study. <i>Psychophysiology</i> , 2002, 39, 657-663.	1.2	185
139	Music matters: preattentive musicality of the human brain. <i>Psychophysiology</i> , 2002, 39, 38-48.	1.2	34
140	Effects of musical expertise on the early right anterior negativity: An event-related brain potential study. , 2002, 39, 657.		25
141	Bach speaks: a cortical "language-network" serves the processing of music. <i>NeuroImage</i> , 2002, 17, 956-66.	2.1	143
142	Effects of musical expertise on the early right anterior negativity: an event-related brain potential study. <i>Psychophysiology</i> , 2002, 39, 657-63.	1.2	46
143	Differentiating ERAN and MMN: An ERP study. <i>NeuroReport</i> , 2001, 12, 1385-1389.	0.6	95
144	Musical syntax is processed in Broca's area: an MEG study. <i>Nature Neuroscience</i> , 2001, 4, 540-545.	7.1	820

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145	Neapolitan Chords Activate the Area of Broca. <i>Annals of the New York Academy of Sciences</i> , 2001, 930, 420-421.	1.8	10
146	Brain Indices of Music Processing: "Nonmusicians" are Musical. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 520-541.	1.1	463
147	Superior pre-attentive auditory processing in musicians. <i>NeuroReport</i> , 1999, 10, 1309-1313.	0.6	345