

# 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	Musical syntax is processed in Broca's area: an MEG study. <i>Nature Neuroscience</i> , 2001, 4, 540-545.	7.1	820
2	Brain correlates of music-evoked emotions. <i>Nature Reviews Neuroscience</i> , 2014, 15, 170-180.	4.9	819
3	Investigating emotion with music: An fMRI study. <i>Human Brain Mapping</i> , 2006, 27, 239-250.	1.9	802
4	Towards a neural basis of music perception. <i>Trends in Cognitive Sciences</i> , 2005, 9, 578-584.	4.0	466
5	Brain Indices of Music Processing: "Nonmusicians" are Musical. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 520-541.	1.1	463
6	Music and emotion: Electrophysiological correlates of the processing of pleasant and unpleasant music. <i>Psychophysiology</i> , 2007, 44, 293-304.	1.2	460
7	Towards a neural basis of music-evoked emotions. <i>Trends in Cognitive Sciences</i> , 2010, 14, 131-137.	4.0	457
8	Bach Speaks: A Cortical "Language-Network" Serves the Processing of Music. <i>NeuroImage</i> , 2002, 17, 956-966.	2.1	445
9	Music, language and meaning: brain signatures of semantic processing. <i>Nature Neuroscience</i> , 2004, 7, 302-307.	7.1	400
10	Universal Recognition of Three Basic Emotions in Music. <i>Current Biology</i> , 2009, 19, 573-576.	1.8	398
11	Superior pre-attentive auditory processing in musicians. <i>NeuroReport</i> , 1999, 10, 1309-1313.	0.6	345
12	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
13	Adults and children processing music: An fMRI study. <i>NeuroImage</i> , 2005, 25, 1068-1076.	2.1	333
14	Predictive Processes and the Peculiar Case of Music. <i>Trends in Cognitive Sciences</i> , 2019, 23, 63-77.	4.0	287
15	Functional architecture of verbal and tonal working memory: An FMRI study. <i>Human Brain Mapping</i> , 2009, 30, 859-873.	1.9	273
16	Toward a Neural Basis of Music Perception " A Review and Updated Model. <i>Frontiers in Psychology</i> , 2011, 2, 110.	1.1	265
17	Functional specializations for music processing in the human newborn brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4758-4763.	3.3	253
18	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

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19	A Neuroscientific Perspective on Music Therapy. <i>Annals of the New York Academy of Sciences</i> , 2009, 1169, 374-384.	1.8	249
20	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
21	Neural substrates of processing syntax and semantics in music. <i>Current Opinion in Neurobiology</i> , 2005, 15, 207-212.	2.0	220
22	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
23	Neuroarchitecture of verbal and tonal working memory in nonmusicians and musicians. <i>Human Brain Mapping</i> , 2011, 32, 771-783.	1.9	182
24	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
25	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
26	What are aesthetic emotions?. <i>Psychological Review</i> , 2019, 126, 171-195.	2.7	165
27	Musical training modulates the development of syntax processing in children. <i>NeuroImage</i> , 2009, 47, 735-744.	2.1	160
28	The quartet theory of human emotions: An integrative and neurofunctional model. <i>Physics of Life Reviews</i> , 2015, 13, 1-27.	1.5	159
29	Music and the heart. <i>European Heart Journal</i> , 2015, 36, 3043-3049.	1.0	153
30	The Paradox of Music-Evoked Sadness: An Online Survey. <i>PLoS ONE</i> , 2014, 9, e110490.	1.1	152
31	Predictive information processing in music cognition. A critical review. <i>International Journal of Psychophysiology</i> , 2012, 83, 164-175.	0.5	151
32	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
33	Music's syntactic processing and auditory memory: Similarities and differences between ERAN and MMN. <i>Psychophysiology</i> , 2009, 46, 179-190.	1.2	144
34	Bach speaks: a cortical "language-network" serves the processing of music. <i>NeuroImage</i> , 2002, 17, 956-66.	2.1	143
35	Amygdala activity can be modulated by unexpected chord functions during music listening. <i>NeuroReport</i> , 2008, 19, 1815-1819.	0.6	141
36	Untangling syntactic and sensory processing: An ERP study of music perception. <i>Psychophysiology</i> , 2007, 44, 476-490.	1.2	137

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37	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
38	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
39	The roles of superficial amygdala and auditory cortex in music-evoked fear and joy. <i>NeuroImage</i> , 2013, 81, 49-60.	2.1	116
40	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
41	Music matters: Preattentive musicality of the human brain. <i>Psychophysiology</i> , 2002, 39, 38-48.	1.2	104
42	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
43	Toward a general psychological model of tension and suspense. <i>Frontiers in Psychology</i> , 2015, 6, 79.	1.1	102
44	Effects of Sad and Happy Music on Mind-Wandering and the Default Mode Network. <i>Scientific Reports</i> , 2017, 7, 14396.	1.6	102
45	A method for continuously assessing the autonomic response to music-induced emotions through HRV analysis. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 423-433.	1.6	96
46	Working memory for speech and music. <i>Annals of the New York Academy of Sciences</i> , 2012, 1252, 229-236.	1.8	96
47	Differentiating ERAN and MMN: An ERP study. <i>NeuroReport</i> , 2001, 12, 1385-1389.	0.6	95
48	Neural Correlates of Emotional Personality: A Structural and Functional Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2013, 8, e77196.	1.1	94
49	Investigating Emotion with Music: Neuroscientific Approaches. <i>Annals of the New York Academy of Sciences</i> , 2005, 1060, 412-418.	1.8	92
50	Music-evoked emotions: principles, brain correlates, and implications for therapy. <i>Annals of the New York Academy of Sciences</i> , 2015, 1337, 193-201.	1.8	91
51	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
52	Electric brain responses reveal gender differences in music processing. <i>NeuroReport</i> , 2003, 14, 709-713.	0.6	89
53	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
54	The effects of anesthetics on brain activity and cognitive function. <i>Current Opinion in Anaesthesiology</i> , 2005, 18, 625-631.	0.9	87

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55	Affective Priming Effects of Musical Sounds on the Processing of Word Meaning. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 604-621.	1.1	87
56	Functional centrality of amygdala, striatum and hypothalamus in a "small-world" network underlying joy: An fMRI study with music. <i>Human Brain Mapping</i> , 2014, 35, 3485-3498.	1.9	86
57	Effects of Music Listening on Cortisol Levels and Propofol Consumption during Spinal Anesthesia. <i>Frontiers in Psychology</i> , 2011, 2, 58.	1.1	85
58	Understanding the Intentions Behind Man-Made Products Elicits Neural Activity in Areas Dedicated to Mental State Attribution. <i>Cerebral Cortex</i> , 2009, 19, 619-623.	1.6	80
59	Are left fronto-temporal brain areas a prerequisite for normal music-syntactic processing?. <i>Cortex</i> , 2011, 47, 659-673.	1.1	79
60	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
61	Differences in Electric Brain Responses to Melodies and Chords. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2251-2262.	1.1	76
62	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
63	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
64	Tension-related activity in the orbitofrontal cortex and amygdala: an fMRI study with music. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1515-1523.	1.5	73
65	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
66	Auditory processing during deep propofol sedation and recovery from unconsciousness. <i>Clinical Neurophysiology</i> , 2006, 117, 1746-1759.	0.7	72
67	Towards a neural basis of processing musical semantics. <i>Physics of Life Reviews</i> , 2011, 8, 89-105.	1.5	71
68	Significance of Broca's Area and Ventral Premotor Cortex for Music-Syntactic Processing. <i>Cortex</i> , 2006, 42, 518-520.	1.1	70
69	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
70	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
71	Processing Expectancy Violations during Music Performance and Perception: An ERP Study. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2401-2413.	1.1	66
72	Electric brain responses to inappropriate harmonies during listening to expressive music. <i>Clinical Neurophysiology</i> , 2002, 113, 862-869.	0.7	65

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73	Short-term effects of processing musical syntax: An ERP study. <i>Brain Research</i> , 2008, 1212, 55-62.	1.1	62
74	Reading a Suspenseful Literary Text Activates Brain Areas Related to Social Cognition and Predictive Inference. <i>PLoS ONE</i> , 2015, 10, e0124550.	1.1	62
75	Music in the Treatment of Affective Disorders: An Exploratory Investigation of a New Method for Music-Therapeutic Research. <i>Music Perception</i> , 2010, 27, 307-316.	0.5	60
76	Co-localizing linguistic and musical syntax with intracranial EEG. <i>NeuroImage</i> , 2013, 64, 134-146.	2.1	60
77	Processing Tonal Modulations: An ERP Study. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 1149-1159.	1.1	55
78	The Temporal Pole Top-Down Modulates the Ventral Visual Stream During Social Cognition. <i>Cerebral Cortex</i> , 2017, 27, bhv226.	1.6	55
79	The right inferior frontal gyrus processes nested non-local dependencies in music. <i>Scientific Reports</i> , 2018, 8, 3822.	1.6	54
80	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
81	Investigating the Neural Encoding of Emotion with Music. <i>Neuron</i> , 2018, 98, 1075-1079.	3.8	53
82	A cardiac signature of emotionality. <i>European Journal of Neuroscience</i> , 2007, 26, 3328-3338.	1.2	52
83	A coordinate-based meta-analysis of music-evoked emotions. <i>NeuroImage</i> , 2020, 223, 117350.	2.1	52
84	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
85	Music perception in cochlear implant users: an event-related potential study. <i>Clinical Neurophysiology</i> , 2004, 115, 966-972.	0.7	48
86	Effects of Selective Attention on Syntax Processing in Music and Language. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2252-2267.	1.1	48
87	Syntax in a pianist's hand: ERP signatures of "embodied" syntax processing in music. <i>Cortex</i> , 2013, 49, 1325-1339.	1.1	47
88	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
89	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
90	Effects of Aesthetic Chills on a Cardiac Signature of Emotionality. <i>PLoS ONE</i> , 2015, 10, e0130117.	1.1	45

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91	Can out-of-context musical sounds convey meaning? An ERP study on the processing of meaning in music. <i>Psychophysiology</i> , 2011, 48, 645-655.	1.2	43
92	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
93	Auditory stroop and absolute pitch: An fMRI study. <i>Human Brain Mapping</i> , 2013, 34, 1579-1590.	1.9	40
94	Music-evoked incidental happiness modulates probability weighting during risky lottery choices. <i>Frontiers in Psychology</i> , 2014, 4, 981.	1.1	40
95	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
96	How music alters a kiss: superior temporal gyrus controls fusiform-amygdalar effective connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1770-1778.	1.5	34
97	Music matters: preattentive musicality of the human brain. <i>Psychophysiology</i> , 2002, 39, 38-48.	1.2	34
98	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
99	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
100	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
101	fMRI Scanner Noise Interaction with Affective Neural Processes. <i>PLoS ONE</i> , 2013, 8, e80564.	1.1	28
102	Neural correlates of music-syntactic processing in two-year old children. <i>Developmental Cognitive Neuroscience</i> , 2014, 9, 200-208.	1.9	27
103	How emotional abilities modulate the influence of early life stress on hippocampal functioning. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1038-1045.	1.5	26
104	EEG correlates of moderate intermittent explosive disorder. <i>Clinical Neurophysiology</i> , 2008, 119, 151-162.	0.7	25
105	Effects of musical expertise on the early right anterior negativity: An event-related brain potential study. , 2002, 39, 657.		25
106	Heroic music stimulates empowering thoughts during mind-wandering. <i>Scientific Reports</i> , 2019, 9, 10317.	1.6	24
107	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
108	When the statistical MMN meets the physical MMN. <i>Scientific Reports</i> , 2019, 9, 5563.	1.6	23

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109	Cardiac Signatures of Personality. PLoS ONE, 2012, 7, e31441.	1.1	23
110	Cognitive Components of Regularity Processing in the Auditory Domain. PLoS ONE, 2008, 3, e2650.	1.1	21
111	Effects of veridical expectations on syntax processing in music: Event-related potential evidence. Scientific Reports, 2016, 6, 19064.	1.6	21
112	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
113	The Brain and Positive Biological Effects in Healthy and Clinical Populations. , 2012, , 437-456.		18
114	Auditory Working Memory. Springer Handbooks, 2018, , 461-472.	0.3	17
115	Neocortical substrates of feelings evoked with music in the ACC, insula, and somatosensory cortex. Scientific Reports, 2021, 11, 10119.	1.6	17
116	Shadows of musicâ€“language interaction on low frequency brain oscillatory patterns. Brain and Language, 2011, 119, 50-57.	0.8	16
117	Aesthetic emotions are a key factor in aesthetic evaluation: Reply to Skov and Nadal (2020).. Psychological Review, 2020, 127, 650-654.	2.7	15
118	Hippocampal-Temporopolar Connectivity Contributes to Episodic Simulation During Social Cognition. Scientific Reports, 2018, 8, 9409.	1.6	14
119	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
120	From Understanding to Appreciating Music Cross-Culturally. PLoS ONE, 2013, 8, e72500.	1.1	13
121	Neurophysiological Correlates of Musical and Prosodic Phrasing: Shared Processing Mechanisms and Effects of Musical Expertise. PLoS ONE, 2016, 11, e0155300.	1.1	12
122	The effects of supervised learning on event-related potential correlates of music-syntactic processing. Brain Research, 2015, 1626, 232-246.	1.1	11
123	Language and music phrase boundary processing in Autism Spectrum Disorder: An ERP study. Scientific Reports, 2017, 7, 14465.	1.6	11
124	Music in depression: Neural correlates of emotional experience in remitted depression. World Journal of Psychiatry, 2013, 3, 8.	1.3	11
125	Neapolitan Chords Activate the Area of Broca. Annals of the New York Academy of Sciences, 2001, 930, 420-421.	1.8	10
126	Emotional Processing of Harmonic Expectancy Violations. Annals of the New York Academy of Sciences, 2005, 1060, 457-461.	1.8	10

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127	Superficial amygdala and hippocampal activity during affective music listening observed at 3 T but not 1.5 T fMRI. <i>NeuroImage</i> , 2014, 101, 364-369.	2.1	10
128	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
129	P3a and mismatch negativity in individuals with moderate Intermittent Explosive Disorder. <i>Neuroscience Letters</i> , 2009, 460, 21-26.	1.0	9
130	Trait Empathy Shapes Neural Responses Toward Sad Music. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 231-241.	1.0	9
131	Amygdala and orbitofrontal engagement in breach and resolution of expectancy: A case study.. <i>Psychomusicology: Music, Mind and Brain</i> , 2015, 25, 357-365.	1.1	9
132	Tensionâ€“resolution patterns as a key element of aesthetic experience: Psychological principles and underlying brain mechanisms. , 2015, , 285-302.		8
133	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
134	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
135	Electrophysiological correlates of verbal and tonal working memory. <i>Brain Research</i> , 2012, 1432, 84-94.	1.1	7
136	Emotion and music in narrative films: A neuroscientific perspective. , 2013, , 118-138.		7
137	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
138	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
139	Unpredictability of the â€œwhenâ€•influences prediction error processing of the â€œwhatâ€•and â€œwhereâ€•. <i>PLoS ONE</i> , 2022, 17, e0263373.	1.1	5
140	Identifying Emotional Specificity in Complex Large-Scale Brain Networks. <i>Emotion Review</i> , 2018, 10, 217-218.	2.1	4
141	From music perception to an integrative framework for the psychology of aesthetics. , 2014, , 300-336.		3
142	Instruments, conductors, dancers, and intendants. <i>Physics of Life Reviews</i> , 2015, 13, 99-106.	1.5	2
143	Implications of the Vienna Integrated Model of Art Perception for art-based interventions in clinical populations: Comment on â€œMove 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 correlatesâ€• by Matthew Pelowski et al.. <i>Physics of Life Reviews</i> , 2017, 21, 145-147.	1.5	2
144	The musical brain. , 2020, , 1-40.		1

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145	Neurowissenschaften. , 2018, , 140-144.		1
146	Gehirn, Musik, Plastizität und Entwicklung. , 2006, , 51-70.		1
147	Music and Action. A NIME Reader Fifteen Years of New Interfaces for Musical Expression, 2013, , 157-180.	0.1	1