Study_Num Study	Year Journal	Rater A Rater	B Agree1	1 Agree	2 A+B	Neuro I	F2017 doiWebsite	N_Method N_J	ournal Q	Jasi note
1 Associations between music education, intelligence, and spelling ability in elementary school	2011 Advances in Cognitive Psychology	1	0.		1	0	1.452 10.2478/v10053-008-0082-4	0	0	1
2 The Brain of Musicians: A Model for Functional and Structural Adaptation	2001 Annals of the New York Academy of Sciences	0	0 0	0	0 0	1	4.277 10.1111/j.1749-6632.2001.tb05739.x	1	0	1
3 Music training enhances the rapid plasticity of P3a/P3b event-related brain potentials for unattended and attended target sounds	2012 Attention, Perception, and Psychophysics	1	1	1	1 2	1	1.678 10.3758/s13414-011-0257-9	1	0	1
4 Cross-sectional study on the relationship between music training and working memory in adults	2016 Australian Journal of Psychology	0	0 0	0	0 0	0	0.932 10.1111/ajpy.12087	0	0	1
5 Musical ability is associated with enhanced auditory and visual cognitive processing	2015 BMC Neuroscience	0	0 0	0	0 0	1	2.173 10.1186/s12868-015-0200-4	1	1	1
6 Effect of musical expertise on visuospatial abilities: Evidence from reaction times and mental imagery	2004 Brain and Cognition	1	1	1	1 2	1	2.574 10.1016/S0278-2626(03)00264-1	1	1	1
7 Musical training during early childhood enhances the neural encoding of speech in noise	2012 Brain and Language	1	1	1	1 2	1	2.851 10.1016/j.bandl.2012.09.001	1	1	1
8 Musical training shapes neural responses to melodic and prosodic expectation	2016 Brain Research	1	1	1	1 2	1	3.125 10.1016/j.brainres.2016.09.015	1	1	1
9 Effects of reverberation on brainstem representation of speech in musicians and non-musicians	2010 Brain Research	1	1	1	1 2	1	3.125 10.1016/j.brainres.2010.07.100	1	1	1
10 Examining the association between music lessons and intelligence	2011 British Journal of Psychology	0	0 0	0	0 0	0	2.507 10.1111/j.2044-8295.2010.02000.x	0	0	0
11 Musical Training Enhances Information Processing Speed	2011 Bulletin of the Council for Research in Music Education	1	1	1	1 2	0	0.146 www.jstor.org/stable/41162320	0	0	1
12 Degree of Musical Expertise Modulates Higher Order Brain Functioning	2013 Cerebral Cortex	1	1	1	1 2	1	6.308 10.1093/cercor/bhs206	1	1	1 3 groups
13 Musical Expertise Boosts Implicit Learning of Both Musical and Linguistic Structures	2011 Cerebral Cortex	1	1	1	1 2	1	6.308 10.1093/cercor/bhr022	1	1	1
14 Neuroanatomical Correlates of Musicianship as Revealed by Cortical Thickness and Voxel-Based Morphometry	2009 Cerebral Cortex	0	0 0	0	0 0	1	6.308 10.1093/cercor/bhn196	1	1	1
15 Cerebellar Volume of Musicians	2003 Cerebral Cortex	1	0.		1 1	1	6.308 10.1093/cercor/13.9.943	1	1	1
16 Tuning the mind: Exploring the connections between musical ability and executive functions	2016 Cognition	0	0 0	0	0 0	0	3.354 10.1016/j.cognition.2016.03.017	0	0	0
17 Musical Training, Bilingualism, and Executive Function: A Closer Look at Task Switching and Dual-Task Performance	2015 Cognitive Science	0	0 0	0	0 0	0	2.617 10.1111/cogs.12183	0	0	1
18 Moral development, executive functioning, peak experiences and brain patterns in professional and amateur classical musicians: Interpreted in light of a Unified Theory of Performance	2011 Conciousness and Cognition	1	0.		1 1	1	2.272 10.1016/j.concog.2011.03.020	1	0	1 3 groups
19 Music training relates to the development of neural mechanisms of selective auditory attention	2015 Developmental Cognitive Neuroscience	1	0.		0 1	1	4.815 10.1016/i.dcn.2015.01.001	1	1	1
20 Biological impact of preschool music classes on processing speech in noise	2013 Developmental Cognitive Neuroscience	1	1 .	1	1 2	1	4.815 10.1016/i.dcn.2013.06.003	1	1	1
21 Musician Enhancement for Speech-In-Noise	2009 Ear and Hearing	1	1	1	1 2	0	3 12 10 1097/AUD 0b013e3181b412e9	0	0	1
22 Music training and emotion comprehension in childhood	2012 Emotion	0	0 1	0	0 0	0	3 039 10 1037/a0027971	0	0	1
22 Variations on the theme of musical evolution of musical evolution of the second procession in percussionists, vocalists and non-musicians	2017 European Journal of Neuroscience	0	0 0	0	0 0	1	2 832 10 1111/ein 13535	1	1	1.3 arouns
20 venators on ne renne of macro expenses, cognitive and earlier protection grant processes and non-inclusional	2012 European Journal of Neuroscience	1	0	0	1 1		2.832 10.1111/ejn.10000	1	4	n o groupa
24 millionna musica advintes are innered to dudicity userimination and attention in 20-59 early or clinicet, an event related potential study 25 Enhanced brainstean encoding practicet emissions? exercisity advisationes with pitch	2011 European Journal of Neuroscience	0	1				2.832 10.1111/j.1460.9568 2010 07527 v	1	4	1
25 Emanced transfer encounty predicts individuals perceptual advantages with prich	2011 European Journal of Neuroscience	0	1. 				2.032 10.1111/j.1400-9508.2010.07527.X			
26 Long-term exposure to music ennances the sensitivity of the auditory system in children	2011 European Journal of Neuroscience				1 2	1	2.832 10.1111/j.1460-9568.2011.07/95.X	1		
2/ Musical experience and neural efficiency – effects of training on succortical processing of vocal expressions of emotion	2009 European Journal of Neuroscience	1	1	1	1 2	1	2.832 10.1111/j.1460-9568.2009.06617.x	1	1	1
28 Musical experience strengthens the neural representation or sounds important for communication in middle-aged adults	2012 Frontiers in Aging Neuroscience	1	1	1	1 2	1	3.582 10.3389/magi.2012.00030	1	1	1
29 Structural and functional plasticity specific to music training with wind instruments	2015 Frontiers in Human Neuroscience	1	0.		1 1	1	2.871 10.3389/fnhum.2015.00597	1	1	1
30 Music training enhances rapid neural plasticity of N1 and P2 source activation for unattended sounds	2012 Frontiers in Human Neuroscience	1	1	1	1 2	1	2.871 10.3389/fnhum.2012.00043	1	1	1
31 Effects of music learning and piano practice on cognitive function, mood and quality of life in older adults	2013 Frontiers in Psychology	1	1	1	1 2	0	2.089 10.3389/fpsyg.2013.00810	0	0	1
32 Music training, cognition, and personality	2013 Frontiers in Psychology	0	0 (	0	0 0	0	2.089 10.3389/fpsyg.2013.00222	0	0	0
33 Musical expertise modulates early processing of syntactic violations in language	2013 Frontiers in Psychology	1	1	1	1 2	1	2.089 10.3389/fpsyg.2012.00603	1	0	1
34 Musical training heightens auditory brainstem function during sensitive periods in development	2013 Frontiers in Psychology	1	1	1	1 2	1	2.089 10.3389/fpsyg.2013.00622	1	0	1
35 Can you hear me now? Musical training shapes functional brain networks for selective auditory attention and hearing speech in noise	2011 Frontiers in Psychology	1	1	1	1 2	1	2.089 10.3389/fpsyg.2011.00113	1	0	1
36 Musical experience shapes top-down auditory mechanisms: Evidence from masking and auditory attention performance	2010 Hearing Research	1	1	1	1 2	0	2.824 10.1016/j.heares.2009.12.021	0	0	1
37 Does musical training improve school performance?	2009 Instructional Science	1	0.		0 1	0	1.922 10.1007/s11251-008-9052-y	0	0	1
38 Revisiting the association between music lessons and intelligence: Training effects or music aptitude?	2017 Intelligence	0	0 0	0	0 0	0	2.785 10.1016/j.intell.2017.03.005	0	0	0
39 Enhanced Passive and Active Processing of Syllables in Musician Children	2011 Journal of Cognitive Neuroscience	1	1	1	1 2	1	3.468 10.1162/jocn_a_00088	1	1	1
40 Long-Term Positive Associations Between Music Lessons and IQ	2006 Journal of Educational Psychology	0	0 0	0	0 0	0	4.433 10.1037/0022-0663.98.2.457	0	0	0
41 Musical expertise, bilingualism, and executive functioning	2009 Journal of Experiment Psychology	1	1	1	1 2	0	2.289 10.1037/a0012735	0	0	1
42 Early musical training and white matter plasticity in the corpus callosum: evidence for a sensitive period	2013 Journal of Neuroscience	1	0.		1 1	1	5.971 10.1523/JNEUROSCI.3578-12.2013	1	1	1
43 Musical Training Enhances Neural Processing of Binaural Sounds	2013 Journal of Neuroscience	1	1	1	1 2	1	5.971 10.1523/JNEUROSCI.5700-12.2013	1	1	1
44 A Little Goes a Long Way: How the Adult Brain Is Shaped by Musical Training in Childhood	2012 Journal of Neuroscience	1	1	1	1 2	1	5.971 10.1523/JNEUROSCI.1949-12.2012	1	1	1 3 groups
45 Musical Experience Limits the Degradative Effects of Background Noise on the Neural Processing of Sound	2009 Journal of Neuroscience	1	1	1	1 2	1	5.971 10.1523/JNEUROSCI.3256-09.2009	1	1	1
46 Brain Structures Differ between Musicians and Non-Musicians	2003 Journal of Neuroscience	0	0 0	0	0 0	1	5.971 10.1523/JNEUROSCI.23-27-09240.2003	3 1	1	1
47 The effect of instrumental music participation and socioeconomic status on Ohio fourth-, sixth-, and ninth-grade proficiency test performance	2006 Journal of Research in Music Education	1	1	1	1 2	0	0.696 10.2307/3653456	0	0	1
48 Pitch and Time Processing in Speech and Tones: The Effects of Musical Training and Attention	2018 Journal of Speech, Language, and Hearing Research	1	1	1	1 2	0	1.906 10.1044/2017_JSLHR-S-17-0207	0	0	1
49 Associations between length of music training and reading skills in children	2011 Music Perception	1	0.		1 1	0	0.974 10.1525/mp.2011.29.2.147	0	0	0
50 Music lessons and intelligence: a relation mediated by executive functions	2011 Music Perception	1	0.		1	0	0.974 10.1525/MP.2011.29.2.195	0	0	0
51 Music Training and Reading Readiness	2011 Music Perception	0	0 0	0	0 0	0	0.974 10.1525/MP.2011.29.2.157	0	0	1
52 Music Training Facilitates Lexical Stress Processing	2009 Music Perception	1	1	1	1 2	0	0 974 10 1525/mp 2009 26 3 235	0	0	1
53 Memory for Verbal and Visual Material in Highly Trained Musicians	2008 Music Perception	0	0 0	0	0 0	0	0.974 10.1525/MP 2008 26.1.41	0	0	1
54 longe for Folger	2007 Music Percention	0	0 0	0	0 0	0	0.974 10.1525/MP 2007 25.2.153	0	0	
54 Edda processing advantage in mascalis- exercise non disentacionali ad transitiva e disentacionali ad transiti 55 Mucical avvarianos chanase human braineterna encoding alla constitucionali adma	2007 Nature Neuroscience	1	1 1	1	1 2	1	19.91 10.1038/001872	1	1	
50 musical experience shapes naman branchern encounty or imgurate prior patients ESE Extension sing practicipation has excised hus apolitic fraction which matter development	2005 Nature Neuroscience	1					10.01 10.1039/pp1516			0
50 Extensive plato practicity has regionary specific effects on white interest everyphinet.	2003 Nature Neuroscience	0	0.	0	0 0		19.91 10.1030/111310	1	1	1
57 Worphology of rescars gyrus relieds eminanced advation in the additory contex of musicians	2002 Nature Neuroscience	0			0 0		19.91 10.1036/116/1	1		
se billingualism and musicianship enhance cognitive control	2016 Neural Plasticity	1			1 2		3.161 10.1155/2016/4058620	0		
se investigand the effects of musical training on functional brain development with a novel melodic minit paradigm	2014 Neurobiology of Learning and Memory	1			1 2		3.244 10.1016/j.nim.2014.01.007	1		
60 Musical literacy shifts asymmetries in the ventral visual cortex	2017 Neuroimage	1	1	1	1 2	1	5.426 10.1016/j.neuroimage.2017.04.027	1	1	1
61 Adults and children processing music: An tMRI study	2005 Neuroimage	0	0 (	0	0 0	1	5.426 10.1016/j.neuroimage.2004.12.050	1	1	1 3 groups
62 Context-dependent encoding in the auditory brainstem subserves enhanced speech-in-noise perception in musicians	2011 Neuropsychologia	0	1.		1	1	2.889 10.1016/j.neuropsychologia.2011.08.007	/ 1	1	1
63 Music training and working memory: An ERP study	2011 Neuropsychologia	0	0 (	0	0 0	1	2.889 10.1016/j.neuropsychologia.2011.02.001	1	1	1
64 Music Training Improves Verbal but Not Visual Memory: Cross-Sectional and Longitudinal Explorations in Children	2003 Neuropsychology	1	1	1	1 2	1	2.699 10.1037/0894-4105.17.3.439	0	1	1
65 Musical Training Effect on Reading Musical Notation: Evidence from Event-Related Potentials	2012 Perceptual and Motor Skills	1	1	1	1 2	1	0.703 10.2466/22.11.24.PMS.115.4.7-17	1	0	1
66 Do Older Professional Musicians Have Cognitive Advantages?	2013 PLOS One	0	0 0	0	0 0	0	2.766 10.1371/journal.pone.0071630	0	0	1
67 Increased engagement of the cognitive control network associated with music training in children during an fMRI Stroop task	2017 PLoS One	0	0 (	0	0 0	1	2.766 10.1371/journal.pone.0187254	1	0	1
68 Behavioral and Neural Correlates of Executive Functioning in Musicians and Non-Musicians	2014 PLoS One	0	0 0	0	0 0	1	2.766 10.1371/journal.pone.0099868	1	0	1
69 Inhibitory control in bilinguals and musicians: Event related potential (ERP) evidence for experience-specific effects.	2014 PLoS One	1	1	1	1 2	1	2.766 10.1371/journal.pone.0094169	1	0	1
70 Enhanced Syllable Discrimination Thresholds in Musicians	2013 PLoS One	1	1	1	1 2	0	2.766 10.1371/journal.pone.0080546	0	0	1
71 Musical experience, auditory perception and reading-related skills in children.	2013 PLoS One	0	1.		1	0	2.766 10.1371/journal.pone.0075876	0	0	1

72 Tone Language Speakers and Musicians Share Enhanced Perceptual and Cognitive Abilities for Musical Pitch: Evidence for Bidirectionality between the Domains of Language and Mu	si 2013 PLoS One	1	0.		1	1	0 2.766 10.1371/journal.pone.0060676	0	0	1
73 Musical Experience and the Aging Auditory System: Implications for Cognitive Abilities and Hearing Speech in Noise	2011 PLoS One	0	0	0	0	0	0 2.766 10.1371/journal.pone.0018082	0	0	1
74 Cognitive Control in Auditory Working Memory Is Enhanced in Musicians	2010 PLoS One	0	1.		0	1	1 2.766 10.1371/journal.pone.0011120	1	0	1
75 Practicing a Musical Instrument in Childhood is Associated with Enhanced Verbal Ability and Nonverbal Reasoning	2008 PLoS One	0	0	0	0	0	0 2.766 10.1371/journal.pone.0003566	0	0	0
76 Musicians have enhanced subcortical auditory and audiovisual processing of speech and music.	2007 Proceedings of the National Academy of Sciences	1	1	1	1	2	1 9.504 10.1073/pnas.0701498104	1	0	1
77 Cortical activity during perception of musical rhythm: Comparing musicians and nonmusicians	2014 Psychmusicology	1	1	1	1	2	1 10.1037/pmu0000046	1	0	1
78 Attention to affective audio-visual information: Comparison between musicians and non-musicians	2016 Psychology of Music	0	1.		1	1	0 1.275 10.1177/0305735616654216	0	0	1
79 The effect of piano lessons on the vocabulary and verbal sequencing skills of primary grade students	2009 Psychology of Music	1	1	1	1	2	0 1.275 10.1177/0305735608097248	0	0	1
80 Music training enhances the automatic neural processing of foreign speech sounds	2017 Scientific Reports	1	1	1	1	2	1 4.122 10.1038/s41598-017-12575-1	1	0	1
81 Electrophysiological evidences demonstrating differences in brain functions between nonmusicians and musicians	2015 Scientific Reports	0	1.		1	1	1 4.122 10.1038/srep13796	1	0	1
82 Musical Experience Influences Statistical Learning of a Novel Language	2013 The American Journal of Psychology	1	1	1	1	2	0 0.938 10.5406/amerjpsyc.126.1.0095	0	0	1
83 The music of speech: Music training facilitates pitch processing in both music and language	2004 Psychophysiology	1	1	1	1	2	1 3.118 10.1111/1469-8986.00172.x	1	1	1
84 Long-term music training tunes how the brain temporally binds signals from multiple senses	2011 Proceedings of the National Academy of Sciences	1	1	1	1	2	1 9.504 10.1073/pnas.1115267108	1	0	1
85 Music Training and Semantic Clustering in College Students	2008 Journal of Genetic Psychology	0	0	0	0	0	0 0.918 10.3200/GNTP.169.4.322-331	0	0	1
86 Musician Children Detect Pitch Violations in Both Music and Language Better than Nonmusician Children: Behavioral and Electrophysiological Approaches	2006 Journal of Cognitive Neuroscience	1	1	1	1	2	1 3.468 10.1162/jocn.2006.18.2.199	1	1	1
87 The unusual symmetry of musicians: Musicians have equilateral interhemispheric transfer for visual information	2007 Neuropsychologia	0	1.		1	1	1 2.889 10.1016/j.neuropsychologia.2007.02.001	1	1	1
88 The effects of noise exposure and musical training on suprathreshold auditory processing and speech perception in noise	2017 Hearing Research	1	1	1	1	2	0 2.824 10.1016/j.heares.2017.07.006	0	0	0
89 Early musical training contributes to decision-making ability	2017 Psychomusicology	1	1	1	1	2	0 10.1037/pmu0000174	0	0	1 3 groups
90 Musical training sharpens and bonds ears and tongue to hear speech better	2017 Proceedings of the National Academy of Sciences	1	1	1	1	2	1 9.504 10.1073/pnas.1712223114	1	0	1
91 Investigating the effects of music training on verbal memory	2017 Psychology of Music	1	1	1	1	2	0 1.275 10.1177/0305735617690246	0	0	1
92 Children's early bilingualism and musical training influence prosodic discrimination of sentences in an unknown language	2018 The Journal of the Acoustical Society of America	1	1	1	1	2	0 1.605 10.1121/1.5019700	0	0	1
93 Differences in updating processes between musicians and non-musicians from late childhood to adolescence	2018 Learning and Individual Differences	0	0	0	0	0	0 1.42 10.1016/j.lindif.2017.12.006	0	0	1
94 Learning a second language: Can music aptitude or music training have a role?	2018 Learning and Individual Differences	0	0	0	0	0	0 1.42 10.1016/j.lindif.2018.04.003	0	0	1
95 Differences in white matter architecture between musicians and non-musicians: a diffusion tensor imaging study	2002 Neuroscience Letters	0	1.		1	1	1 2.159 10.1016/S0304-3940(02)00054-X	1	1	1
96 Differences in mental abilities between musicians and non-musicians	2003 Psychology of Music	1	1	1	1	2	0 1.275 10.1177/0305735603031002290	0	0	1
97 Music lessons and verbal memory in 10- to 12-year-old children: Investigating articulatory rehearsal as mechanism underlying this association	2017 Psychomusicology	0	1.		0	1	0 10.1037/pmu0000201	0	0	1
98 The cognitive functioning of older adult instrumental musicians and non-musicians	2018 Aging, Neuropsychology, and Cognition	1	0.		1	1	1 1.845 10.1080/13825585.2018.1448356	0	1	1 3 groups
99 Attention in musicians is more bilateral than in non-musicians	2007 Laterality: Asymmetries of Body, Brain, and Cognition	1	1	1	1	2	1 1.388 10.1080/13576500701251981	0	1	1
100 Gesture imitation in musicians and non-musicians	2010 Experimental Brain Research	1	1	1	1	2	1 1.806 10.1007/s00221-010-2322-3	0	1	1
101 Musicians detect pitch violation in a foreign language better than nonmusicians: Behavioral and electrophysiological evidence	2007 Journal of Cognitive Neuroscience	1	1	1	1	2	1 3.468 10.1162/jocn.2007.19.9.1453	1	1	1
102 Effects of long-term practice and task complexity in musicians and non-musicians performing simple and complex motor tasks: Implications for cortical motor organization	2005 Human Brain Mapping	1	1	1	1	2	1 4.927 10.1002/hbm.20112	1	1	1
103 Effects of practice and experience on the arcuate fasciculus: comparing singers, instrumentalists, and non-musicians	2011 Frontiers in Psychology	1	1	1	1	2	1 2.089 10.3389/fpsyg.2011.00156	1	0	1 3 groups
104 Gray matter differences between musicians and nonmusicians	2003 Annals of the New York Academy of Sciences	1	0.		0	1	1 4.277 10.1196/annals.1284.062	1	0	1 3 groups
105 Musical experience promotes subcortical efficiency in processing emotional vocal sounds	2009 Annals of the New York Academy of Sciences	1	1	1	1	2	1 4.277 10.1111/j.1749-6632.2009.04864.x	1	0	1
106 Enhanced divergent thinking and creativity in musicians: a behavioral and near-infrared spectroscopy study	2009 Brain and Cognition	0	1.		0	1	1 2.574 10.1016/j.bandc.2008.07.009	1	1	1
107 Musical training intensity yields opposite effects on grey matter density in cognitive versus sensorimotor networks	2014 Brain Structure and Function	1	1	1	1	2	1 4.231 10.1007/s00429-013-0504-z	1	1	1 3 groups
108 The relation between instrumental musical activity and cognitive aging	2011 Neuropsychology	0	1.		0	1	1 2.699 10.1037/a0021895	0	1	1 3 groups
109 An empirical investigation of creativity and musical experience	2006 Psychology of Music	0	0	0	0	0	0 1.275 10.1177/0305735606064839	0	0	0
110 Older adults benefit from music training early in life: Biological evidence for long-term training-driven plasticity	2013 Journal of Neuroscience	1	0.		1	1	1 5.971 10.1523/JNEUROSCI.2560-13.2013	1	1	1
111 The effect of musical training on the neural correlates of math processing: a functional magnetic resonance imaging study in humans	2004 Neuroscience Letters	1	1	1	1	2	1 2.159 10.1016/j.neulet.2003.10.037	1	1	1
112 Individual differences in musical training and executive functions: A latent variable approach	2018 Memory and Cognition	0	0	0	0	0	0 1.911 10.3758/s13421-018-0822-8	0	0	0
113 Musical training induces functional plasticity in perceptual and motor networks: Insights from resting-state fMRI	2012 PLOS One	1	1	1	1	2	1 2.766 10.1371/journal.pone.0036568	1	0	1
114 Long-term musical training may improve different forms of visual attention ability	2013 Brain and Cognition	0	1.		0	1	1 2.574 10.1016/j.bandc.2013.04.009	0	1	1