

# Luiz Pessoa

## List of Publications by Year in descending order

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133  
papers

17,307  
citations

26630

56  
h-index

15266

126  
g-index

149  
all docs

149  
docs citations

149  
times ranked

14148  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the relationship between emotion and cognition. Nature Reviews Neuroscience, 2008, 9, 148-158.	10.2	1,680
2	Emotion processing and the amygdala: from a 'low road' to 'many roads' of evaluating biological significance. Nature Reviews Neuroscience, 2010, 11, 773-782.	10.2	1,515
3	How do emotion and motivation direct executive control?. Trends in Cognitive Sciences, 2009, 13, 160-166.	7.8	1,037
4	The Neural Correlates of Moral Sensitivity: A Functional Magnetic Resonance Imaging Investigation of Basic and Moral Emotions. Journal of Neuroscience, 2002, 22, 2730-2736.	3.6	622
5	Finding out about filling-in: A guide to perceptual completion for visual science and the philosophy of perception. Behavioral and Brain Sciences, 1998, 21, 723-748.	0.7	597
6	Attentional control of the processing of neutral and emotional stimuli. Cognitive Brain Research, 2002, 15, 31-45.	3.0	435
7	Neural Correlates of Visual Working Memory. Neuron, 2002, 35, 975-987.	8.1	424
8	To what extent are emotional visual stimuli processed without attention and awareness?. Current Opinion in Neurobiology, 2005, 15, 188-196.	4.2	420
9	Neuroimaging Studies of Attention: From Modulation of Sensory Processing to Top-Down Control. Journal of Neuroscience, 2003, 23, 3990-3998.	3.6	400
10	Emotion and cognition and the amygdala: From "what is it?" to "what's to be done?". Neuropsychologia, 2010, 48, 3416-3429.	1.6	362
11	Reward Reduces Conflict by Enhancing Attentional Control and Biasing Visual Cortical Processing. Journal of Cognitive Neuroscience, 2011, 23, 3419-3432.	2.3	326
12	Fate of unattended fearful faces in the amygdala is determined by both attentional resources and cognitive modulation. Neurolmage, 2005, 28, 249-255.	4.2	314
13	Measuring consciousness: relating behavioural and neurophysiological approaches. Trends in Cognitive Sciences, 2008, 12, 314-321.	7.8	303
14	Understanding brain networks and brain organization. Physics of Life Reviews, 2014, 11, 400-435.	2.8	294
15	The prefrontal cortex and the executive control of attention. Experimental Brain Research, 2009, 192, 489-497.	1.5	269
16	A Network Model of the Emotional Brain. Trends in Cognitive Sciences, 2017, 21, 357-371.	7.8	268
17	Mechanisms of motivation-cognition interaction: challenges and opportunities. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 443-472.	2.0	263
18	The neurobiology of emotion-cognition interactions: fundamental questions and strategies for future research. Frontiers in Human Neuroscience, 2015, 9, 58.	2.0	260

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19	Repetition suppression of faces is modulated by emotion. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9827-9832.	7.1	248
20	Target Visibility and Visual Awareness Modulate Amygdala Responses to Fearful Faces. Cerebral Cortex, 2006, 16, 366-375.	2.9	239
21	Combined effects of attention and motivation on visual task performance: Transient and sustained motivational effects. Frontiers in Human Neuroscience, 2009, 3, 4.	2.0	230
22	Beyond the Tripartite Cognition-Emotion-Interoception Model of the Human Insular Cortex. Journal of Cognitive Neuroscience, 2014, 26, 16-27.	2.3	227
23	The functional connectivity of the human caudate: An application of meta-analytic connectivity modeling with behavioral filtering. NeuroImage, 2012, 60, 117-129.	4.2	222
24	Embedding reward signals into perception and cognition. Frontiers in Neuroscience, 2010, 4, .	2.8	216
25	Segregating the significant from the mundane on a moment-to-moment basis via direct and indirect amygdala contributions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16841-16846.	7.1	214
26	The Cognitive-Emotional Brain. , 2013, , .		208
27	Visual Awareness and the Detection of Fearful Faces.. Emotion, 2005, 5, 243-247.	1.8	205
28	Motivation sharpens exogenous spatial attention.. Emotion, 2007, 7, 668-674.	1.8	200
29	Neuroimaging studies of attention and the processing of emotion-laden stimuli. Progress in Brain Research, 2004, 144, 171-182.	1.4	195
30	Beyond the Grand Illusion: What Change Blindness Really Teaches Us About Vision. Visual Cognition, 2000, 7, 93-106.	1.6	193
31	Describing functional diversity of brain regions and brain networks. NeuroImage, 2013, 73, 50-58.	4.2	183
32	Affective Learning Enhances Visual Detection and Responses in Primary Visual Cortex. Journal of Neuroscience, 2008, 28, 6202-6210.	3.6	180
33	Interactions between cognition and emotion during response inhibition.. Emotion, 2012, 12, 192-197.	1.8	178
34	A Contrast- and Luminance-driven Multiscale Network Model of Brightness Perception. Vision Research, 1995, 35, 2201-2223.	1.4	177
35	Impact of state anxiety on the interaction between threat monitoring and cognition. NeuroImage, 2012, 59, 1912-1923.	4.2	172
36	Network Analysis Reveals Increased Integration during Emotional and Motivational Processing. Journal of Neuroscience, 2012, 32, 8361-8372.	3.6	171

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37	Load-dependent modulation of affective picture processing. Cognitive, Affective and Behavioral Neuroscience, 2005, 5, 388-395.	2.0	159
38	Interactions between cognition and motivation during response inhibition. Neuropsychologia, 2010, 48, 558-565.	1.6	158
39	Neural Correlates of Perceptual Choice and Decision Making during Fear-Disgust Discrimination. Journal of Neuroscience, 2007, 27, 2908-2917.	3.6	153
40	Network Organization Unfolds over Time during Periods of Anxious Anticipation. Journal of Neuroscience, 2014, 34, 11261-11273.	3.6	126
41	Emotion affects action: Midcingulate cortex as a pivotal node of interaction between negative emotion and motor signals. Cognitive, Affective and Behavioral Neuroscience, 2010, 10, 94-106.	2.0	124
42	Neural Correlates of Change Detection and Change Blindness in a Working Memory Task. Cerebral Cortex, 2004, 14, 511-520.	2.9	117
43	Bihemispheric Leftward Bias in a Visuospatial Attention-Related Network. Journal of Neuroscience, 2007, 27, 11271-11278.	3.6	116
44	Negative Emotion Impairs Conflict-Driven Executive Control. Frontiers in Psychology, 2011, 2, 192.	2.1	112
45	Emergent processes in cognitive-emotional interactions. Dialogues in Clinical Neuroscience, 2010, 12, 433-448.	3.7	108
46	Decoding Near-Threshold Perception of Fear from Distributed Single-Trial Brain Activation. Cerebral Cortex, 2006, 17, 691-701.	2.9	89
47	Beyond brain regions: Network perspective of cognition–emotion interactions. Behavioral and Brain Sciences, 2012, 35, 158-159.	0.7	88
48	Overlapping communities reveal rich structure in large-scale brain networks during rest and task conditions. NeuroImage, 2016, 135, 92-106.	4.2	88
49	Quantitative prediction of perceptual decisions during near-threshold fear detection. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5612-5617.	7.1	87
50	Understanding emotion with brain networks. Current Opinion in Behavioral Sciences, 2018, 19, 19-25.	3.9	86
51	Texture segregation, surface representation and figure–ground separation. Vision Research, 1998, 38, 2657-2684.	1.4	85
52	Mach Bands: How Many Models are Possible? Recent Experimental Findings and Modeling Attempts. Vision Research, 1996, 36, 3205-3227.	1.4	83
53	Affective learning enhances activity and functional connectivity in early visual cortex. Neuropsychologia, 2009, 47, 2480-2487.	1.6	83
54	Affective learning modulates spatial competition during low-load attentional conditions. Neuropsychologia, 2008, 46, 1267-1278.	1.6	81

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55	Sustained and transient modulation of performance induced by emotional picture viewing.. Emotion, 2006, 6, 622-634.	1.8	75
56	Lightness from contrast: A selective integration model. Perception & Psychophysics, 2000, 62, 1160-1181.	2.3	65
57	Multiple influences of reward on perception and attention. Visual Cognition, 2015, 23, 272-290.	1.6	64
58	Comparing functional connectivity matrices: A geometry-aware approach applied to participant identification. NeuroImage, 2020, 207, 116398.	4.2	64
59	Why does the brain fill in?. Trends in Cognitive Sciences, 1998, 2, 422-424.	7.8	62
60	Opportunities and challenges for a maturing science of consciousness. Nature Human Behaviour, 2019, 3, 104-107.	12.0	58
61	Neural architecture of the vertebrate brain: implications for the interaction between emotion and cognition. Neuroscience and Biobehavioral Reviews, 2019, 107, 296-312.	6.1	55
62	Threat of bodily harm has opposing effects on cognition.. Emotion, 2012, 12, 28-32.	1.8	52
63	Interactions between reward and threat during visual processing. Neuropsychologia, 2013, 51, 1763-1772.	1.6	52
64	PrÃ©cis on<i>The Cognitive-Emotional Brain</i>. Behavioral and Brain Sciences, 2015, 38, e71.	0.7	52
65	Pervasive competition between threat and reward in the brain. Social Cognitive and Affective Neuroscience, 2014, 9, 737-750.	3.0	49
66	Affective learning increases sensitivity to graded emotional faces.. Emotion, 2008, 8, 96-103.	1.8	46
67	Reprint of: Emotion and cognition and the amygdala: From â€œwhat is it?â€œto â€œwhat's to be done?â€œ. Neuropsychologia, 2011, 49, 681-694.	1.6	44
68	Impact of appetitive and aversive outcomes on brain responses: linking the animal and human literatures. Frontiers in Systems Neuroscience, 2014, 8, 24.	2.5	41
69	Emotion and the brain: multiple roads are better than one. Nature Reviews Neuroscience, 2011, 12, 425-425.	10.2	40
70	Refocusing neuroscience: moving away from mental categories and towards complex behaviours. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200534.	4.0	40
71	Emotion and the Interactive Brain: Insights From Comparative Neuroanatomy and Complex Systems. Emotion Review, 2018, 10, 204-216.	3.4	39
72	Individual differences in valence modulation of face-selective m170 response.. Emotion, 2009, 9, 59-69.	1.8	36

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73	From Paul Broca's great limbic lobe to the limbic system. Journal of Comparative Neurology, 2015, 523, 2495-2500.	1.6	36
74	Dynamic Networks in the Emotional Brain. Neuroscientist, 2017, 23, 383-396.	3.5	36
75	Dissociable effects of bottom-up and top-down factors on the processing of unattended fearful faces. Neuropsychologia, 2007, 45, 3075-3086.	1.6	34
76	Dynamic Threat Processing. Journal of Cognitive Neuroscience, 2019, 31, 522-542.	2.3	33
77	Visual filling-in for computing perceptual surface properties. Biological Cybernetics, 2001, 85, 355-369.	1.3	32
78	Interactions between emotion and action in the brain. NeuroImage, 2020, 214, 116728.	4.2	32
79	Attentional control during the transient updating of cue information. Brain Research, 2009, 1247, 149-158.	2.2	31
80	Controllability over stressor decreases responses in key threat-related brain areas. Communications Biology, 2021, 4, 42.	4.4	31
81	Do Intelligent Robots Need Emotion?. Trends in Cognitive Sciences, 2017, 21, 817-819.	7.8	29
82	Motivation versus aversive processing during perception.. Emotion, 2014, 14, 450-454.	1.8	27
83	Potential reward reduces the adverse impact of negative distractor stimuli. Social Cognitive and Affective Neuroscience, 2017, 12, 1402-1413.	3.0	27
84	The perception of lightness in 3-D curved objects. Perception & Psychophysics, 1996, 58, 1293-1305.	2.3	24
85	An fMRI Pilot Study of Cognitive Reappraisal in Children: Divergent Effects on Brain and Behavior. Journal of Psychopathology and Behavioral Assessment, 2015, 37, 634-644.	1.2	24
86	An integrative Bayesian approach to matrix-based analysis in neuroimaging. Human Brain Mapping, 2019, 40, 4072-4090.	3.6	24
87	How representative are neuroimaging samples? Large-scale evidence for trait anxiety differences between fMRI and behaviour-only research participants. Social Cognitive and Affective Neuroscience, 2021, 16, 1057-1070.	3.0	24
88	The cognitive-emotional amalgam. Behavioral and Brain Sciences, 2015, 38, e91.	0.7	21
89	Reward learning and negative emotion during rapid attentional competition. Frontiers in Psychology, 2015, 6, 269.	2.1	21
90	Dynamics of Intersubject Brain Networks during Anxious Anticipation. Frontiers in Human Neuroscience, 2017, 11, 552.	2.0	21

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91	Fighting or embracing multiplicity in neuroimaging? neighborhood leverage versus global calibration. NeuroImage, 2020, 206, 116320.	4.2	21
92	To pool or not to pool: Can we ignore cross-trial variability in fMRI?. NeuroImage, 2021, 225, 117496.	4.2	21
93	Embracing integration and complexity: placing emotion within a science of brain and behaviour. Cognition and Emotion, 2019, 33, 55-60.	2.0	18
94	A call for more clarity around causality in neuroscience. Trends in Neurosciences, 2022, 45, 654-655.	8.6	18
95	Interaction of ON and OFF pathways for visual contrast measurement. Biological Cybernetics, 1999, 81, 515-532.	1.3	17
96	Discovering networks altered by potential threat (‘anxiety’) using quadratic discriminant analysis. NeuroImage, 2015, 116, 1-9.	4.2	17
97	Representational Organization of Novel Task Sets during Proactive Encoding. Journal of Neuroscience, 2019, 39, 8386-8397.	3.6	17
98	Perceived texture segregation in chromatic element-arrangement patterns: High intensity interference. Vision Research, 1996, 36, 1745-1760.	1.4	16
99	Neural dynamics of emotion and cognition: From trajectories to underlying neural geometry. Neural Networks, 2019, 120, 158-166.	5.9	16
100	Moment-to-moment fluctuations in fMRI amplitude and interregion coupling are predictive of inhibitory performance. Cognitive, Affective and Behavioral Neuroscience, 2010, 10, 279-297.	2.0	15
101	Counteracting effect of threat on reward enhancements during working memory. Cognition and Emotion, 2015, 29, 1517-1526.	2.0	15
102	LEICA: Laplacian eigenmaps for group ICA decomposition of fMRI data. NeuroImage, 2018, 169, 363-373.	4.2	15
103	What drives prioritized visual processing? A motivational relevance account. Progress in Brain Research, 2019, 247, 111-148.	1.4	15
104	Brain dynamics and temporal trajectories during task and naturalistic processing. NeuroImage, 2019, 186, 410-423.	4.2	15
105	Geodesic Distance on Optimally Regularized Functional Connectomes Uncovers Individual Fingerprints. Brain Connectivity, 2021, 11, 333-348.	1.7	15
106	Cognitive-motivational interactions: Beyond boxes-and-arrows models of the mind-brain.. Motivation Science, 2017, 3, 287-303.	1.6	15
107	Intelligent architectures for robotics: The merging of cognition and emotion. Physics of Life Reviews, 2019, 31, 157-170.	2.8	14
108	Filling-in is for finding out. Behavioral and Brain Sciences, 1998, 21, 781-796.	0.7	13

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109	Mach-Band Attenuation by Adjacent Stimuli: Experiment and Filling-in Simulations. Perception, 1996, 25, 425-442.	1.2	12
110	Interactions between reward motivation and emotional processing. Progress in Brain Research, 2019, 247, 1-21.	1.4	12
111	A neural architecture of brightness perception: non-linear contrast detection and geometry-driven diffusion. Image and Vision Computing, 1998, 16, 423-446.	4.5	11
112	Beyond disjoint brain networks: Overlapping networks for cognition and emotion. Behavioral and Brain Sciences, 2016, 39, e129.	0.7	11
113	Information about peer choices shapes human risky decision-making. Scientific Reports, 2018, 8, 5129.	3.3	11
114	Attentional capture by simultaneous pleasant and unpleasant emotional distractors.. Emotion, 2018, 18, 1189-1194.	1.8	11
115	Distributed and Multifaceted Effects of Threat and Safety. Journal of Cognitive Neuroscience, 2022, 34, 495-516.	2.3	11
116	Altered segregation between task-positive and task-negative regions in mild traumatic brain injury. Brain Imaging and Behavior, 2018, 12, 697-709.	2.1	8
117	Contour integration in the primary visual cortex of the opossum. NeuroReport, 2002, 13, 2001-2004.	1.2	7
118	Diversity in action: exchange of perspectives and reflections on taxonomies of individual differences. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170172.	4.0	6
119	Captura da aten��o por est�mulos emocionais. Paideia, 2004, 14, 35-44.	0.1	4
120	NEUROSCIENCE: Seeing the World in the Same Way. Science, 2004, 303, 1617-1618.	12.6	4
121	Introduction to the special research topic on the neurobiology of emotion-cognition interactions. Frontiers in Human Neuroscience, 2014, 8, 1051.	2.0	4
122	Learning brain dynamics for decoding and predicting individual differences. PLoS Computational Biology, 2021, 17, e1008943.	3.2	4
123	From Humble Neural Beginnings Comes Knowledge of Numbers. Neuron, 2003, 37, 4-6.	8.1	3
124	Complex-system causality in large-scale brain networks. Physics of Life Reviews, 2015, 15, 124-127.	2.8	3
125	Brain networks for emotion and cognition: Implications and tools for understanding mental disorders and pathophysiology. Behavioral and Brain Sciences, 2019, 42, e23.	0.7	3
126	Neuropsychologia special issue editorial: The neural basis of emotion. Neuropsychologia, 2020, 145, 107507.	1.6	2



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127	Sources of Information Waste in Neuroimaging: Mishandling Structures, Thinking Dichotomously, and Over-Reducing Data. , 2022, 2021, .		2
128	Brain networks: Moving beyond graphs. Physics of Life Reviews, 2014, 11, 462-466.	2.8	1
129	Author Reply: Placing Emotion Within a Science of Brain and Behavior. Emotion Review, 2018, 10, 236-238.	3.4	1
130	Overlapping and dynamic networks of the emotional brain. , 2019, , 43-61.		1
131	Lessons from Leslie: A Tribute to an Extraordinary Scientist and Mentor. Trends in Neurosciences, 2021, 44, 241-243.	8.6	1
132	Filling-in: One or many?. Behavioral and Brain Sciences, 2001, 24, 1137-1139.	0.7	0
133	Reward vs. Emotion in Visual Selective Attention. Journal of Vision, 2015, 15, 451.	0.3	0