

Luiz Pessoa

List of Publications by Year in descending order

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133
papers

17,307
citations

26610

56
h-index

15249

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. <i>Nature Reviews Neuroscience</i> , 2008, 9, 148-158.	4.9	1,680
2	Emotion processing and the amygdala: from a 'low road' to 'many roads' of evaluating biological significance. <i>Nature Reviews Neuroscience</i> , 2010, 11, 773-782.	4.9	1,515
3	How do emotion and motivation direct executive control?. <i>Trends in Cognitive Sciences</i> , 2009, 13, 160-166.	4.0	1,037
4	The Neural Correlates of Moral Sensitivity: A Functional Magnetic Resonance Imaging Investigation of Basic and Moral Emotions. <i>Journal of Neuroscience</i> , 2002, 22, 2730-2736.	1.7	622
5	Finding out about filling-in: A guide to perceptual completion for visual science and the philosophy of perception. <i>Behavioral and Brain Sciences</i> , 1998, 21, 723-748.	0.4	597
6	Attentional control of the processing of neutral and emotional stimuli. <i>Cognitive Brain Research</i> , 2002, 15, 31-45.	3.3	435
7	Neural Correlates of Visual Working Memory. <i>Neuron</i> , 2002, 35, 975-987.	3.8	424
8	To what extent are emotional visual stimuli processed without attention and awareness?. <i>Current Opinion in Neurobiology</i> , 2005, 15, 188-196.	2.0	420
9	Neuroimaging Studies of Attention: From Modulation of Sensory Processing to Top-Down Control. <i>Journal of Neuroscience</i> , 2003, 23, 3990-3998.	1.7	400
10	Emotion and cognition and the amygdala: From "what is it?" to "what's to be done?". <i>Neuropsychologia</i> , 2010, 48, 3416-3429.	0.7	362
11	Reward Reduces Conflict by Enhancing Attentional Control and Biasing Visual Cortical Processing. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3419-3432.	1.1	326
12	Fate of unattended fearful faces in the amygdala is determined by both attentional resources and cognitive modulation. <i>NeuroImage</i> , 2005, 28, 249-255.	2.1	314
13	Measuring consciousness: relating behavioural and neurophysiological approaches. <i>Trends in Cognitive Sciences</i> , 2008, 12, 314-321.	4.0	303
14	Understanding brain networks and brain organization. <i>Physics of Life Reviews</i> , 2014, 11, 400-435.	1.5	294
15	The prefrontal cortex and the executive control of attention. <i>Experimental Brain Research</i> , 2009, 192, 489-497.	0.7	269
16	A Network Model of the Emotional Brain. <i>Trends in Cognitive Sciences</i> , 2017, 21, 357-371.	4.0	268
17	Mechanisms of motivation-cognition interaction: challenges and opportunities. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 443-472.	1.0	263
18	The neurobiology of emotion-cognition interactions: fundamental questions and strategies for future research. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 58.	1.0	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.	3.3	248
20	Target Visibility and Visual Awareness Modulate Amygdala Responses to Fearful Faces. Cerebral Cortex, 2006, 16, 366-375.	1.6	239
21	Combined effects of attention and motivation on visual task performance: Transient and sustained motivational effects. Frontiers in Human Neuroscience, 2009, 3, 4.	1.0	230
22	Beyond the Tripartite Cognition-Emotion-Interoception Model of the Human Insular Cortex. Journal of Cognitive Neuroscience, 2014, 26, 16-27.	1.1	227
23	The functional connectivity of the human caudate: An application of meta-analytic connectivity modeling with behavioral filtering. NeuroImage, 2012, 60, 117-129.	2.1	222
24	Embedding reward signals into perception and cognition. Frontiers in Neuroscience, 2010, 4, .	1.4	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.	3.3	214
26	The Cognitive-Emotional Brain. , 2013, , .		208
27	Visual Awareness and the Detection of Fearful Faces.. Emotion, 2005, 5, 243-247.	1.5	205
28	Motivation sharpens exogenous spatial attention.. Emotion, 2007, 7, 668-674.	1.5	200
29	Neuroimaging studies of attention and the processing of emotion-laden stimuli. Progress in Brain Research, 2004, 144, 171-182.	0.9	195
30	Beyond the Grand Illusion: What Change Blindness Really Teaches Us About Vision. Visual Cognition, 2000, 7, 93-106.	0.9	193
31	Describing functional diversity of brain regions and brain networks. NeuroImage, 2013, 73, 50-58.	2.1	183
32	Affective Learning Enhances Visual Detection and Responses in Primary Visual Cortex. Journal of Neuroscience, 2008, 28, 6202-6210.	1.7	180
33	Interactions between cognition and emotion during response inhibition.. Emotion, 2012, 12, 192-197.	1.5	178
34	A Contrast- and Luminance-driven Multiscale Network Model of Brightness Perception. Vision Research, 1995, 35, 2201-2223.	0.7	177
35	Impact of state anxiety on the interaction between threat monitoring and cognition. NeuroImage, 2012, 59, 1912-1923.	2.1	172
36	Network Analysis Reveals Increased Integration during Emotional and Motivational Processing. Journal of Neuroscience, 2012, 32, 8361-8372.	1.7	171

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37	Load-dependent modulation of affective picture processing. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2005, 5, 388-395.	1.0	159
38	Interactions between cognition and motivation during response inhibition. <i>Neuropsychologia</i> , 2010, 48, 558-565.	0.7	158
39	Neural Correlates of Perceptual Choice and Decision Making during Fear-Disgust Discrimination. <i>Journal of Neuroscience</i> , 2007, 27, 2908-2917.	1.7	153
40	Network Organization Unfolds over Time during Periods of Anxious Anticipation. <i>Journal of Neuroscience</i> , 2014, 34, 11261-11273.	1.7	126
41	Emotion affects action: Midcingulate cortex as a pivotal node of interaction between negative emotion and motor signals. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2010, 10, 94-106.	1.0	124
42	Neural Correlates of Change Detection and Change Blindness in a Working Memory Task. <i>Cerebral Cortex</i> , 2004, 14, 511-520.	1.6	117
43	Bihemispheric Leftward Bias in a Visuospatial Attention-Related Network. <i>Journal of Neuroscience</i> , 2007, 27, 11271-11278.	1.7	116
44	Negative Emotion Impairs Conflict-Driven Executive Control. <i>Frontiers in Psychology</i> , 2011, 2, 192.	1.1	112
45	Emergent processes in cognitive-emotional interactions. <i>Dialogues in Clinical Neuroscience</i> , 2010, 12, 433-448.	1.8	108
46	Decoding Near-Threshold Perception of Fear from Distributed Single-Trial Brain Activation. <i>Cerebral Cortex</i> , 2006, 17, 691-701.	1.6	89
47	Beyond brain regions: Network perspective of cognition–emotion interactions. <i>Behavioral and Brain Sciences</i> , 2012, 35, 158-159.	0.4	88
48	Overlapping communities reveal rich structure in large-scale brain networks during rest and task conditions. <i>NeuroImage</i> , 2016, 135, 92-106.	2.1	88
49	Quantitative prediction of perceptual decisions during near-threshold fear detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5612-5617.	3.3	87
50	Understanding emotion with brain networks. <i>Current Opinion in Behavioral Sciences</i> , 2018, 19, 19-25.	2.0	86
51	Texture segregation, surface representation and figure–ground separation. <i>Vision Research</i> , 1998, 38, 2657-2684.	0.7	85
52	Mach Bands: How Many Models are Possible? Recent Experimental Findings and Modeling Attempts. <i>Vision Research</i> , 1996, 36, 3205-3227.	0.7	83
53	Affective learning enhances activity and functional connectivity in early visual cortex. <i>Neuropsychologia</i> , 2009, 47, 2480-2487.	0.7	83
54	Affective learning modulates spatial competition during low-load attentional conditions. <i>Neuropsychologia</i> , 2008, 46, 1267-1278.	0.7	81

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55	Sustained and transient modulation of performance induced by emotional picture viewing.. <i>Emotion</i> , 2006, 6, 622-634.	1.5	75
56	Lightness from contrast: A selective integration model. <i>Perception & Psychophysics</i> , 2000, 62, 1160-1181.	2.3	65
57	Multiple influences of reward on perception and attention. <i>Visual Cognition</i> , 2015, 23, 272-290.	0.9	64
58	Comparing functional connectivity matrices: A geometry-aware approach applied to participant identification. <i>NeuroImage</i> , 2020, 207, 116398.	2.1	64
59	Why does the brain fill in?. <i>Trends in Cognitive Sciences</i> , 1998, 2, 422-424.	4.0	62
60	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , 2019, 3, 104-107.	6.2	58
61	Neural architecture of the vertebrate brain: implications for the interaction between emotion and cognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 296-312.	2.9	55
62	Threat of bodily harm has opposing effects on cognition.. <i>Emotion</i> , 2012, 12, 28-32.	1.5	52
63	Interactions between reward and threat during visual processing. <i>Neuropsychologia</i> , 2013, 51, 1763-1772.	0.7	52
64	PrÃ©cis on<i>The Cognitive-Emotional Brain</i>. <i>Behavioral and Brain Sciences</i> , 2015, 38, e71.	0.4	52
65	Pervasive competition between threat and reward in the brain. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 737-750.	1.5	49
66	Affective learning increases sensitivity to graded emotional faces.. <i>Emotion</i> , 2008, 8, 96-103.	1.5	46
67	Reprint of: Emotion and cognition and the amygdala: From "what is it?" to "what's to be done?". <i>Neuropsychologia</i> , 2011, 49, 681-694.	0.7	44
68	Impact of appetitive and aversive outcomes on brain responses: linking the animal and human literatures. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 24.	1.2	41
69	Emotion and the brain: multiple roads are better than one. <i>Nature Reviews Neuroscience</i> , 2011, 12, 425-425.	4.9	40
70	Refocusing neuroscience: moving away from mental categories and towards complex behaviours. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200534.	1.8	40
71	Emotion and the Interactive Brain: Insights From Comparative Neuroanatomy and Complex Systems. <i>Emotion Review</i> , 2018, 10, 204-216.	2.1	39
72	Individual differences in valence modulation of face-selective m170 response.. <i>Emotion</i> , 2009, 9, 59-69.	1.5	36

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73	From Paul Broca's great limbic lobe to the limbic system. <i>Journal of Comparative Neurology</i> , 2015, 523, 2495-2500.	0.9	36
74	Dynamic Networks in the Emotional Brain. <i>Neuroscientist</i> , 2017, 23, 383-396.	2.6	36
75	Dissociable effects of bottom-up and top-down factors on the processing of unattended fearful faces. <i>Neuropsychologia</i> , 2007, 45, 3075-3086.	0.7	34
76	Dynamic Threat Processing. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 522-542.	1.1	33
77	Visual filling-in for computing perceptual surface properties. <i>Biological Cybernetics</i> , 2001, 85, 355-369.	0.6	32
78	Interactions between emotion and action in the brain. <i>NeuroImage</i> , 2020, 214, 116728.	2.1	32
79	Attentional control during the transient updating of cue information. <i>Brain Research</i> , 2009, 1247, 149-158.	1.1	31
80	Controllability over stressor decreases responses in key threat-related brain areas. <i>Communications Biology</i> , 2021, 4, 42.	2.0	31
81	Do Intelligent Robots Need Emotion?. <i>Trends in Cognitive Sciences</i> , 2017, 21, 817-819.	4.0	29
82	Motivation versus aversive processing during perception.. <i>Emotion</i> , 2014, 14, 450-454.	1.5	27
83	Potential reward reduces the adverse impact of negative distractor stimuli. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 1402-1413.	1.5	27
84	The perception of lightness in 3-D curved objects. <i>Perception & Psychophysics</i> , 1996, 58, 1293-1305.	2.3	24
85	An fMRI Pilot Study of Cognitive Reappraisal in Children: Divergent Effects on Brain and Behavior. <i>Journal of Psychopathology and Behavioral Assessment</i> , 2015, 37, 634-644.	0.7	24
86	An integrative Bayesian approach to matrix-based analysis in neuroimaging. <i>Human Brain Mapping</i> , 2019, 40, 4072-4090.	1.9	24
87	How representative are neuroimaging samples? Large-scale evidence for trait anxiety differences between fMRI and behaviour-only research participants. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 1057-1070.	1.5	24
88	The cognitive-emotional amalgam. <i>Behavioral and Brain Sciences</i> , 2015, 38, e91.	0.4	21
89	Reward learning and negative emotion during rapid attentional competition. <i>Frontiers in Psychology</i> , 2015, 6, 269.	1.1	21
90	Dynamics of Intersubject Brain Networks during Anxious Anticipation. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 552.	1.0	21

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91	Fighting or embracing multiplicity in neuroimaging? neighborhood leverage versus global calibration. <i>NeuroImage</i> , 2020, 206, 116320.	2.1	21
92	To pool or not to pool: Can we ignore cross-trial variability in fMRI?. <i>NeuroImage</i> , 2021, 225, 117496.	2.1	21
93	Embracing integration and complexity: placing emotion within a science of brain and behaviour. <i>Cognition and Emotion</i> , 2019, 33, 55-60.	1.2	18
94	A call for more clarity around causality in neuroscience. <i>Trends in Neurosciences</i> , 2022, 45, 654-655.	4.2	18
95	Interaction of ON and OFF pathways for visual contrast measurement. <i>Biological Cybernetics</i> , 1999, 81, 515-532.	0.6	17
96	Discovering networks altered by potential threat (anxiety) using quadratic discriminant analysis. <i>NeuroImage</i> , 2015, 116, 1-9.	2.1	17
97	Representational Organization of Novel Task Sets during Proactive Encoding. <i>Journal of Neuroscience</i> , 2019, 39, 8386-8397.	1.7	17
98	Perceived texture segregation in chromatic element-arrangement patterns: High intensity interference. <i>Vision Research</i> , 1996, 36, 1745-1760.	0.7	16
99	Neural dynamics of emotion and cognition: From trajectories to underlying neural geometry. <i>Neural Networks</i> , 2019, 120, 158-166.	3.3	16
100	Moment-to-moment fluctuations in fMRI amplitude and interregion coupling are predictive of inhibitory performance. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2010, 10, 279-297.	1.0	15
101	Counteracting effect of threat on reward enhancements during working memory. <i>Cognition and Emotion</i> , 2015, 29, 1517-1526.	1.2	15
102	LEICA: Laplacian eigenmaps for group ICA decomposition of fMRI data. <i>NeuroImage</i> , 2018, 169, 363-373.	2.1	15
103	What drives prioritized visual processing? A motivational relevance account. <i>Progress in Brain Research</i> , 2019, 247, 111-148.	0.9	15
104	Brain dynamics and temporal trajectories during task and naturalistic processing. <i>NeuroImage</i> , 2019, 186, 410-423.	2.1	15
105	Geodesic Distance on Optimally Regularized Functional Connectomes Uncovers Individual Fingerprints. <i>Brain Connectivity</i> , 2021, 11, 333-348.	0.8	15
106	Cognitive-motivational interactions: Beyond boxes-and-arrows models of the mind-brain.. <i>Motivation Science</i> , 2017, 3, 287-303.	1.2	15
107	Intelligent architectures for robotics: The merging of cognition and emotion. <i>Physics of Life Reviews</i> , 2019, 31, 157-170.	1.5	14
108	Filling-in is for finding out. <i>Behavioral and Brain Sciences</i> , 1998, 21, 781-796.	0.4	13

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109	Mach-Band Attenuation by Adjacent Stimuli: Experiment and Filling-in Simulations. <i>Perception</i> , 1996, 25, 425-442.	0.5	12
110	Interactions between reward motivation and emotional processing. <i>Progress in Brain Research</i> , 2019, 247, 1-21.	0.9	12
111	A neural architecture of brightness perception: non-linear contrast detection and geometry-driven diffusion. <i>Image and Vision Computing</i> , 1998, 16, 423-446.	2.7	11
112	Beyond disjoint brain networks: Overlapping networks for cognition and emotion. <i>Behavioral and Brain Sciences</i> , 2016, 39, e129.	0.4	11
113	Information about peer choices shapes human risky decision-making. <i>Scientific Reports</i> , 2018, 8, 5129.	1.6	11
114	Attentional capture by simultaneous pleasant and unpleasant emotional distractors.. <i>Emotion</i> , 2018, 18, 1189-1194.	1.5	11
115	Distributed and Multifaceted Effects of Threat and Safety. <i>Journal of Cognitive Neuroscience</i> , 2022, 34, 495-516.	1.1	11
116	Altered segregation between task-positive and task-negative regions in mild traumatic brain injury. <i>Brain Imaging and Behavior</i> , 2018, 12, 697-709.	1.1	8
117	Contour integration in the primary visual cortex of the opossum. <i>NeuroReport</i> , 2002, 13, 2001-2004.	0.6	7
118	Diversity in action: exchange of perspectives and reflections on taxonomies of individual differences. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170172.	1.8	6
119	Captura da ateno por estmulos emocionais. <i>Paideia</i> , 2004, 14, 35-44.	0.1	4
120	NEUROSCIENCE: Seeing the World in the Same Way. <i>Science</i> , 2004, 303, 1617-1618.	6.0	4
121	Introduction to the special research topic on the neurobiology of emotion-cognition interactions. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1051.	1.0	4
122	Learning brain dynamics for decoding and predicting individual differences. <i>PLoS Computational Biology</i> , 2021, 17, e1008943.	1.5	4
123	From Humble Neural Beginnings Comes Knowledge of Numbers. <i>Neuron</i> , 2003, 37, 4-6.	3.8	3
124	Complex-system causality in large-scale brain networks. <i>Physics of Life Reviews</i> , 2015, 15, 124-127.	1.5	3
125	Brain networks for emotion and cognition: Implications and tools for understanding mental disorders and pathophysiology. <i>Behavioral and Brain Sciences</i> , 2019, 42, e23.	0.4	3
126	Neuropsychologia special issue editorial: The neural basis of emotion. <i>Neuropsychologia</i> , 2020, 145, 107507.	0.7	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.	1.5	1
129	Author Reply: Placing Emotion Within a Science of Brain and Behavior. Emotion Review, 2018, 10, 236-238.	2.1	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.	4.2	1
132	Filling-in: One or many?. Behavioral and Brain Sciences, 2001, 24, 1137-1139.	0.4	0
133	Reward vs. Emotion in Visual Selective Attention. Journal of Vision, 2015, 15, 451.	0.1	0