Peter J Gianaros

List of Publications by Year
in descending order

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118 papers	10,442 citations	31902 53 h-index	34900 98 g-index
129 all docs	129 docs citations	129 times ranked	13758 citing authors

#	Article	IF	Citations
1	Central role of the brain in stress and adaptation: Links to socioeconomic status, health, and disease. Annals of the New York Academy of Sciences, 2010, 1186, 190-222.	1.8	1,253
2	Stress- and Allostasis-Induced Brain Plasticity. Annual Review of Medicine, 2011, 62, 431-445.	5.0	820
3	Interleukin-6 Covaries Inversely with Hippocampal Grey Matter Volume in Middle-Aged Adults. Biological Psychiatry, 2008, 64, 484-490.	0.7	290
4	A Sensitive and Specific Neural Signature for Picture-Induced Negative Affect. PLoS Biology, 2015, 13, e1002180.	2.6	283
5	Regional cerebral blood flow correlates with heart period and high-frequency heart period variability during working-memory tasks: Implications for the cortical and subcortical regulation of cardiac autonomic activity. Psychophysiology, 2004, 41, 521-530.	1.2	281
6	A Stage Model of Stress and Disease. Perspectives on Psychological Science, 2016, 11, 456-463.	5.2	280
7	Prospective reports of chronic life stress predict decreased grey matter volume in the hippocampus. NeuroImage, 2007, 35, 795-803.	2.1	264
8	The Embodiment of Emotional Feelings in the Brain. Journal of Neuroscience, 2010, 30, 12878-12884.	1.7	247
9	Individual Differences in Stressor-Evoked Blood Pressure Reactivity Vary with Activation, Volume, and Functional Connectivity of the Amygdala. Journal of Neuroscience, 2008, 28, 990-999.	1.7	236
10	Brain morphology links systemic inflammation to cognitive function in midlife adults. Brain, Behavior, and Immunity, 2015, 48, 195-204.	2.0	225
11	Alterations in Resting-State Functional Connectivity Link Mindfulness Meditation With Reduced Interleukin-6: A Randomized Controlled Trial. Biological Psychiatry, 2016, 80, 53-61.	0.7	201
12	Perigenual anterior cingulate morphology covaries with perceived social standing. Social Cognitive and Affective Neuroscience, 2007, 2, 161-173.	1.5	192
13	Generalizable representations of pain, cognitive control, and negative emotion in medial frontal cortex. Nature Neuroscience, 2018, 21, 283-289.	7.1	187
14	Potential neural embedding of parental social standing. Social Cognitive and Affective Neuroscience, 2008, 3, 91-96.	1.5	183
15	Brain-Body Pathways Linking Psychological Stress and Physical Health. Current Directions in Psychological Science, 2015, 24, 313-321.	2.8	176
16	A review of neuroimaging studies of stressor-evoked blood pressure reactivity: Emerging evidence for a brain-body pathway to coronary heart disease risk. NeuroImage, 2009, 47, 922-936.	2.1	162
17	Altered Functioning of the Executive Control Circuit in Late-Life Depression: Episodic and Persistent Phenomena. American Journal of Geriatric Psychiatry, 2009, 17, 30-42.	0.6	158
18	Anterior cingulate activity correlates with blood pressure during stress. Psychophysiology, 2005, 42, 627-635.	1.2	148

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19	Long-chain omega-3 fatty acid intake is associated positively with corticolimbic gray matter volume in healthy adults. Neuroscience Letters, 2007, 421, 209-212.	1.0	138
20	Should heart rate variability be â€œcorrectedâ€•for heart rate? Biological, quantitative, and interpretive considerations. Psychophysiology, 2019, 56, e13287.	1.2	138
21	Brain systems for baroreflex suppression during stress in humans. Human Brain Mapping, 2012, 33, 1700-1716.	1.9	137
22	Mindfulness meditation training alters stress-related amygdala resting state functional connectivity: a randomized controlled trial. Social Cognitive and Affective Neuroscience, 2015, 10, 1758-1768.	1.5	123
23	Higher blood pressure predicts lower regional grey matter volume: Consequences on short-term information processing. NeuroImage, 2006, 31, 754-765.	2.1	117
24	Mindfulness Meditation Training and Executive Control Network Resting State Functional Connectivity: A Randomized Controlled Trial. Psychosomatic Medicine, 2017, 79, 674-683.	1.3	113
25	Functional neuroanatomy of peripheral inflammatory physiology: A meta-analysis of human neuroimaging studies. Neuroscience and Biobehavioral Reviews, 2018, 94, 76-92.	2.9	113
26	Trait Negative Affect: Toward an Integrated Model of Understanding Psychological Risk for Impairment in Cardiac Autonomic Function. Psychosomatic Medicine, 2008, 70, 328-337.	1.3	110
27	Subjective Socioeconomic Status and Presence of the Metabolic Syndrome in Midlife Community Volunteers. Psychosomatic Medicine, 2010, 72, 35-45.	1.3	105
28	Polymorphic variation in the dopamine D4 receptor predicts delay discounting as a function of childhood socioeconomic status: evidence for differential susceptibility. Social Cognitive and Affective Neuroscience, 2013, 8, 499-508.	1.5	102
29	The self in context: brain systems linking mental and physical health. Nature Reviews Neuroscience, 2021, 22, 309-322.	4.9	102
30	Inflammatory Pathways Link Socioeconomic Inequalities to White Matter Architecture. Cerebral Cortex, 2013, 23, 2058-2071.	1.6	101
31	Cardiovascular and autonomic reactivity to psychological stress: Neurophysiological substrates and links to cardiovascular disease. Autonomic Neuroscience: Basic and Clinical, 2017, 207, 2-9.	1.4	99
32	Stimulated Production of Proinflammatory Cytokines Covaries Inversely With Heart Rate Variability. Psychosomatic Medicine, 2007, 69, 709-716.	1.3	96
33	An Inflammatory Pathway Links Atherosclerotic Cardiovascular Disease Risk to Neural Activity Evoked by the Cognitive Regulation of Emotion. Biological Psychiatry, 2014, 75, 738-745.	0.7	95
34	Focusing neurovisceral integration: Cognition, heart rate variability, and cerebral blood flow. Psychophysiology, 2015, 52, 214-224.	1.2	93
35	Longitudinal assessment of neuroimaging and clinical markers in autosomal dominant Alzheimer's disease: a prospective cohort study. Lancet Neurology, The, 2015, 14, 804-813.	4.9	91
36	Heightened Functional Neural Activation to Psychological Stress Covaries With Exaggerated Blood Pressure Reactivity. Hypertension, 2007, 49, 134-140.	1.3	90

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37	Systemic inflammation and resting state connectivity of the default mode network. Brain, Behavior, and Immunity, 2017, 62, 162-170.	2.0	87
38	Cardiovascular Reactivity to Acute Psychological Stress Following Sleep Deprivation. Psychosomatic Medicine, 2011, 73, 679-682.	1.3	84
39	Resting state connectivity of the medial prefrontal cortex covaries with individual differences in highâ€frequency heart rate variability. Psychophysiology, 2016, 53, 444-454.	1.2	83
40	Parental Education Predicts Corticostriatal Functionality in Adulthood. Cerebral Cortex, 2011, 21, 896-910.	1.6	80
41	Dispositional Mindfulness Co-Varies with Smaller Amygdala and Caudate Volumes in Community Adults. PLoS ONE, 2013, 8, e64574.	1.1	80
42	Functional MRI Can Be Highly Reliable, but It Depends on What You Measure: A Commentary on Elliott et al. (2020). Psychological Science, 2021, 32, 622-626.	1.8	79
43	Blunted cardiac stress reactivity relates to neural hypoactivation. Psychophysiology, 2013, 50, 219-229.	1.2	77
44	Resting highâ€frequency heart rate variability is related to resting brain perfusion. Psychophysiology, 2015, 52, 277-287.	1.2	76
45	Competing physiological pathways link individual differences in weight and abdominal adiposity to white matter microstructure. NeuroImage, 2013, 79, 129-137.	2.1	73
46	Neurobiological Pathways Linking Socioeconomic Position and Health. Psychosomatic Medicine, 2010, 72, 450-461.	1.3	72
47	Preclinical Atherosclerosis Covaries with Individual Differences in Reactivity and Functional Connectivity of the Amygdala. Biological Psychiatry, 2009, 65, 943-950.	0.7	70
48	Perceived discrimination and cardiovascular health disparities: a multisystem review and health neuroscience perspective. Annals of the New York Academy of Sciences, 2018, 1428, 170-207.	1.8	68
49	Use of Total Cerebral Blood Flow as an Imaging Biomarker of Known Cardiovascular Risks. Stroke, 2013, 44, 2480-2485.	1.0	62
50	Greater intima-media thickness in the carotid bulb is associated with reduced baroreflex sensitivity. American Journal of Hypertension, 2002, 15, 486-491.	1.0	61
51	A Greater Reduction in High-Frequency Heart Rate Variability to a Psychological Stressor is Associated With Subclinical Coronary and Aortic Calcification in Postmenopausal Women. Psychosomatic Medicine, 2005, 67, 553-560.	1.3	60
52	Is There a Functional Neural Correlate of Individual Differences in Cardiovascular Reactivity?. Psychosomatic Medicine, 2005, 67, 31-39.	1.3	58
53	Inhibition-related activity in subgenual cingulate is associated with symptom severity in major depression. Psychiatry Research - Neuroimaging, 2009, 172, 1-6.	0.9	58
54	Frontal gray matter atrophy in middle aged adults with type 1 diabetes is independent of cardiovascular risk factors and diabetes complications. Journal of Diabetes and Its Complications, 2013, 27, 558-564.	1.2	55

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55	Neighborhood Socioeconomic Status and Cognitive Function in Late Life. American Journal of Epidemiology, 2016, 183, 1088-1097.	1.6	55
56	A Neural Circuitry Linking Insulin Resistance to Depressed Mood. Psychosomatic Medicine, 2012, 74, 476-482.	1.3	54
57	A Brain Phenotype for Stressorâ€Evoked Blood Pressure Reactivity. Journal of the American Heart Association, 2017, 6, .	1.6	53
58	Physiological recordings: Basic concepts and implementation during functional magnetic resonance imaging. NeuroImage, 2009, 47, 1105-1115.	2.1	52
59	Community Socioeconomic Disadvantage in Midlife Relates to Cortical Morphology via Neuroendocrine and Cardiometabolic Pathways. Cerebral Cortex, 2017, 27, bhv233.	1.6	52
60	A population neuroscience approach to the study of cerebral small vessel disease in midlife and late life: an invited review. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H1117-H1136.	1.5	52
61	Host in the machine: A neurobiological perspective on psychological stress and cardiovascular disease.. American Psychologist, 2018, 73, 1031-1044.	3.8	51
62	Health Neuroscience. Current Directions in Psychological Science, 2014, 23, 446-453.	2.8	50
63	Social network diversity and white matter microstructural integrity in humans. Social Cognitive and Affective Neuroscience, 2015, 10, 1169-1176.	1.5	48
64	Bodyâ€“Brain Connections: The Effects of Obesity and Behavioral Interventions on Neurocognitive Aging. Frontiers in Aging Neuroscience, 2017, 9, 115.	1.7	45
65	Maintaining brain health by monitoring inflammatory processes: a mechanism to promote successful aging. , 2012, 3, 16-33.		44
66	Neural Mechanisms Linking Emotion with Cardiovascular Disease. Current Cardiology Reports, 2018, 20, 128.	1.3	43
67	Cerebral perfusion alterations and cerebral amyloid in autosomal dominant Alzheimer disease. Neurology, 2014, 83, 710-717.	1.5	41
68	Relationship between temporal changes in cardiac parasympathetic activity and motion sickness severity. Psychophysiology, 2003, 40, 39-44.	1.2	40
69	Childhood physical abuse predicts stressor-evoked activity within central visceral control regions. Social Cognitive and Affective Neuroscience, 2015, 10, 474-485.	1.5	40
70	Susceptibility to Nausea and Motion Sickness as a Function of the Menstrual Cycle. Women's Health Issues, 2008, 18, 328-335.	0.9	39
71	Gastric myoelectrical and autonomic cardiac reactivity to laboratory stressors. Psychophysiology, 2001, 38, 642-652.	1.2	38
72	Testâ€“retest reliability of an <scp>fMRI</scp> paradigm for studies of cardiovascular reactivity. Psychophysiology, 2012, 49, 873-884.	1.2	38

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73	Cardiac Vagal Control in Nonmedicated Depressed Women and Nondepressed Controls. Psychosomatic Medicine, 2011, 73, 336-343.	1.3	37
74	Heightened Resting Neural Activity Predicts Exaggerated Stressor-Evoked Blood Pressure Reactivity. Hypertension, 2009, 53, 819-825.	1.3	36
75	Resting state functional connectivity within the cingulate cortex jointly predicts agreeableness and stressor-evoked cardiovascular reactivity. NeuroImage, 2011, 55, 363-370.	2.1	34
76	Retrospectively reported childhood physical abuse, systemic inflammation, and resting corticolimbic connectivity in midlife adults. Brain, Behavior, and Immunity, 2019, 82, 203-213.	2.0	34
77	Gain in Adiposity Across 15 Years is Associated With Reduced Gray Matter Volume in Healthy Women. Psychosomatic Medicine, 2009, 71, 485-490.	1.3	33
78	Cortical thickness and restingâ€state cardiac function across the lifespan: A crossâ€sectional pooled megaâ€analysis. Psychophysiology, 2021, 58, e13688.	1.2	33
79	Contributions of Neuroscience to the Study of Socioeconomic Health Disparities. Psychosomatic Medicine, 2013, 75, 610-615.	1.3	31
80	Is Cardiovascular Reactivity Associated With Atherosclerosis Among Hypertensives?. Hypertension, 2002, 40, 742-747.	1.3	30
81	Higher dietary inflammation is associated with increased odds of depression independent of Framingham Risk Score in the National Health and Nutrition Examination Survey. Nutrition Research, 2018, 54, 23-32.	1.3	29
82	Increased stressorâ€evoked cardiovascular reactivity is associated with reduced amygdala and hippocampus volume. Psychophysiology, 2019, 56, e13277.	1.2	28
83	Long-Term Ambient Air Pollution Exposures and Circulating and Stimulated Inflammatory Mediators in a Cohort of Midlife Adults. Environmental Health Perspectives, 2021, 129, 57007.	2.8	27
84	Maternal depression in childhood and aggression in young adulthood: evidence for mediation by offspring amygdalaâ€“hippocampal volume ratio. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2015, 56, 1083-1091.	3.1	25
85	Sex differences in the association between stressor-evoked interleukin-6 reactivity and C-reactive protein. Brain, Behavior, and Immunity, 2016, 58, 173-180.	2.0	25
86	Personality Correlates of Midlife Cardiometabolic Risk: The Explanatory Role of Higherâ€Order Factors of the Fiveâ€Factor Model. Journal of Personality, 2016, 84, 765-776.	1.8	22
87	Prehypertensive Blood Pressures and Regional Cerebral Blood Flow Independently Relate to Cognitive Performance in Midlife. Journal of the American Heart Association, 2017, 6, .	1.6	22
88	Trajectories of peripheral interleukin-6, structure of the hippocampus, and cognitive impairment over 14Âyears in older adults. Neurobiology of Aging, 2015, 36, 3038-3044.	1.5	21
89	Cerebrovascular function in hypertension: Does high blood pressure make you old?. Psychophysiology, 2021, 58, e13654.	1.2	21
90	Affective brain patterns as multivariate neural correlates of cardiovascular disease risk. Social Cognitive and Affective Neuroscience, 2020, 15, 1034-1045.	1.5	20

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91	Basal ganglia morphology links the metabolic syndrome and depressive symptoms. Physiology and Behavior, 2014, 123, 214-222.	1.0	18
92	Cerebral Blood Flow Links Insulin Resistance and Baroreflex Sensitivity. PLoS ONE, 2013, 8, e83288.	1.1	18
93	Ventromedial prefrontal cortex connectivity during and after psychological stress in women. Psychophysiology, 2019, 56, e13445.	1.2	17
94	Does well-being associate with stress physiology? A systematic review and meta-analysis.. Health Psychology, 2020, 39, 879-890.	1.3	17
95	Relationship of gastric myoelectrical and cardiac parasympathetic activity to chemotherapy-induced nausea. Journal of Psychosomatic Research, 2001, 50, 263-266.	1.2	16
96	Cerebrovascular disease: Neuroimaging of cerebral small vessel disease. Progress in Molecular Biology and Translational Science, 2019, 165, 225-255.	0.9	16
97	PhysioScripts: An extensible, open source platform for the processing of physiological data. Behavior Research Methods, 2013, 45, 125-131.	2.3	14
98	Blood pressure interacts with APOE Îµ4 to predict memory performance in a midlife sample.. Neuropsychology, 2015, 29, 693-702.	1.0	14
99	Vagal function in health and disease: studies in Pittsburgh. Physiology and Behavior, 2002, 77, 693-698.	1.0	13
100	Associations of immunometabolic risk factors with symptoms of depression and anxiety: The role of cardiac vagal activity. Brain, Behavior, and Immunity, 2018, 73, 493-503.	2.0	13
101	Taking rejection to heart: Associations between blood pressure and sensitivity to social pain. Biological Psychology, 2018, 139, 87-95.	1.1	11
102	The Social Brain, Stress, and Psychopathology. JAMA Psychiatry, 2014, 71, 622.	6.0	10
103	Brain Regional Blood Flow and Working Memory Performance Predict Change in Blood Pressure Over 2 Years. Hypertension, 2017, 70, 1132-1141.	1.3	10
104	Dual impedance cardiography: An inexpensive and reliable method to assess arterial stiffness. Psychophysiology, 2021, 58, e13772.	1.2	9
105	The effects of omega-3 fatty acids on neuropsychological functioning and brain morphology in mid-life adults: a randomized clinical trial. Psychological Medicine, 2020, 50, 2425-2434.	2.7	8
106	Relationship between Dispositional Mindfulness, Psychological Health, and Diet Quality among Healthy Midlife Adults. Nutrients, 2020, 12, 3414.	1.7	8
107	Socioeconomic disparities of depressive symptoms and cytokines in hepatocellular carcinoma. Psycho-Oncology, 2019, 28, 1624-1632.	1.0	5
108	Is stressorâ€evoked cardiovascular reactivity a pathway linking positive and negative emotionality to preclinical cardiovascular disease risk?. Psychophysiology, 2021, 58, e13741.	1.2	5

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109	Multivariate Brain Activity while Viewing and Reappraising Affective Scenes Does Not Predict the Multiyear Progression of Preclinical Atherosclerosis in Otherwise Healthy Midlife Adults. Affective Science, 2022, 3, 406-424.	1.5	5
110	An online Trier social stress paradigm to evoke affective and cardiovascular responses. Psychophysiology, 2022, 59, e14067.	1.2	5
111	Ectopic adiposity is associated with autonomic risk factors and subclinical cardiovascular disease in young adults. Obesity, 2015, 23, 2030-2036.	1.5	3
112	Resting (Tonic) Blood Pressure Is Associated With Sensitivity to Imagined and Acute Experiences of Social Pain: Evidence From Three Studies. Psychological Science, 2022, 33, 984-998.	1.8	3
113	Adiposity covaries with signatures of asymmetric feedback learning during adaptive decisions. Social Cognitive and Affective Neuroscience, 2020, 15, 1145-1156.	1.5	2
114	Cortisol activity partially accounts for a relationship between community socioeconomic position and atherosclerosis. Psychoneuroendocrinology, 2021, 131, 105292.	1.3	2
115	The prospective relationship between prehypertension, race, and whole-brain white matter microstructure. Journal of Human Hypertension, 2020, 34, 82-89.	1.0	1
116	The Neurobiology of Health Communication. Psychosomatic Medicine, 2017, 79, 376-378.	1.3	0
117	Frontostriatal Brain Activation Is Associated With the Longitudinal Progression of Cardiometabolic Risk. Psychosomatic Medicine, 2020, 82, 454-460.	1.3	0
118	The Personality Metaâ€trait of Stability and Carotid Artery Atherosclerosis. Journal of Personality, 2022, , .	1.8	0