

Peter J Gianaros

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

10,442
citations

31976

53
h-index

34986

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. <i>Annals of the New York Academy of Sciences</i> , 2010, 1186, 190-222.	3.8	1,253
2	Stress- and Allostasis-Induced Brain Plasticity. <i>Annual Review of Medicine</i> , 2011, 62, 431-445.	12.2	820
3	Interleukin-6 Covaries Inversely with Hippocampal Grey Matter Volume in Middle-Aged Adults. <i>Biological Psychiatry</i> , 2008, 64, 484-490.	1.3	290
4	A Sensitive and Specific Neural Signature for Picture-Induced Negative Affect. <i>PLoS Biology</i> , 2015, 13, e1002180.	5.6	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. <i>Psychophysiology</i> , 2004, 41, 521-530.	2.4	281
6	A Stage Model of Stress and Disease. <i>Perspectives on Psychological Science</i> , 2016, 11, 456-463.	9.0	280
7	Prospective reports of chronic life stress predict decreased grey matter volume in the hippocampus. <i>NeuroImage</i> , 2007, 35, 795-803.	4.2	264
8	The Embodiment of Emotional Feelings in the Brain. <i>Journal of Neuroscience</i> , 2010, 30, 12878-12884.	3.6	247
9	Individual Differences in Stressor-Evoked Blood Pressure Reactivity Vary with Activation, Volume, and Functional Connectivity of the Amygdala. <i>Journal of Neuroscience</i> , 2008, 28, 990-999.	3.6	236
10	Brain morphology links systemic inflammation to cognitive function in midlife adults. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 195-204.	4.1	225
11	Alterations in Resting-State Functional Connectivity Link Mindfulness Meditation With Reduced Interleukin-6: A Randomized Controlled Trial. <i>Biological Psychiatry</i> , 2016, 80, 53-61.	1.3	201
12	Perigenual anterior cingulate morphology covaries with perceived social standing. <i>Social Cognitive and Affective Neuroscience</i> , 2007, 2, 161-173.	3.0	192
13	Generalizable representations of pain, cognitive control, and negative emotion in medial frontal cortex. <i>Nature Neuroscience</i> , 2018, 21, 283-289.	14.8	187
14	Potential neural embedding of parental social standing. <i>Social Cognitive and Affective Neuroscience</i> , 2008, 3, 91-96.	3.0	183
15	Brain-Body Pathways Linking Psychological Stress and Physical Health. <i>Current Directions in Psychological Science</i> , 2015, 24, 313-321.	5.3	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. <i>NeuroImage</i> , 2009, 47, 922-936.	4.2	162
17	Altered Functioning of the Executive Control Circuit in Late-Life Depression: Episodic and Persistent Phenomena. <i>American Journal of Geriatric Psychiatry</i> , 2009, 17, 30-42.	1.2	158
18	Anterior cingulate activity correlates with blood pressure during stress. <i>Psychophysiology</i> , 2005, 42, 627-635.	2.4	148

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19	Long-chain omega-3 fatty acid intake is associated positively with corticolimbic gray matter volume in healthy adults. <i>Neuroscience Letters</i> , 2007, 421, 209-212.	2.1	138
20	Should heart rate variability be "corrected" for heart rate? Biological, quantitative, and interpretive considerations. <i>Psychophysiology</i> , 2019, 56, e13287.	2.4	138
21	Brain systems for baroreflex suppression during stress in humans. <i>Human Brain Mapping</i> , 2012, 33, 1700-1716.	3.6	137
22	Mindfulness meditation training alters stress-related amygdala resting state functional connectivity: a randomized controlled trial. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 1758-1768.	3.0	123
23	Higher blood pressure predicts lower regional grey matter volume: Consequences on short-term information processing. <i>NeuroImage</i> , 2006, 31, 754-765.	4.2	117
24	Mindfulness Meditation Training and Executive Control Network Resting State Functional Connectivity: A Randomized Controlled Trial. <i>Psychosomatic Medicine</i> , 2017, 79, 674-683.	2.0	113
25	Functional neuroanatomy of peripheral inflammatory physiology: A meta-analysis of human neuroimaging studies. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 94, 76-92.	6.1	113
26	Trait Negative Affect: Toward an Integrated Model of Understanding Psychological Risk for Impairment in Cardiac Autonomic Function. <i>Psychosomatic Medicine</i> , 2008, 70, 328-337.	2.0	110
27	Subjective Socioeconomic Status and Presence of the Metabolic Syndrome in Midlife Community Volunteers. <i>Psychosomatic Medicine</i> , 2010, 72, 35-45.	2.0	105
28	Polymorphic variation in the dopamine D4 receptor predicts delay discounting as a function of childhood socioeconomic status: evidence for differential susceptibility. <i>Social Cognitive and Affective Neuroscience</i> , 2013, 8, 499-508.	3.0	102
29	The self in context: brain systems linking mental and physical health. <i>Nature Reviews Neuroscience</i> , 2021, 22, 309-322.	10.2	102
30	Inflammatory Pathways Link Socioeconomic Inequalities to White Matter Architecture. <i>Cerebral Cortex</i> , 2013, 23, 2058-2071.	2.9	101
31	Cardiovascular and autonomic reactivity to psychological stress: Neurophysiological substrates and links to cardiovascular disease. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017, 207, 2-9.	2.8	99
32	Stimulated Production of Proinflammatory Cytokines Covaries Inversely With Heart Rate Variability. <i>Psychosomatic Medicine</i> , 2007, 69, 709-716.	2.0	96
33	An Inflammatory Pathway Links Atherosclerotic Cardiovascular Disease Risk to Neural Activity Evoked by the Cognitive Regulation of Emotion. <i>Biological Psychiatry</i> , 2014, 75, 738-745.	1.3	95
34	Focusing neurovisceral integration: Cognition, heart rate variability, and cerebral blood flow. <i>Psychophysiology</i> , 2015, 52, 214-224.	2.4	93
35	Longitudinal assessment of neuroimaging and clinical markers in autosomal dominant Alzheimer's disease: a prospective cohort study. <i>Lancet Neurology</i> , The, 2015, 14, 804-813.	10.2	91
36	Heightened Functional Neural Activation to Psychological Stress Covaries With Exaggerated Blood Pressure Reactivity. <i>Hypertension</i> , 2007, 49, 134-140.	2.7	90

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37	Systemic inflammation and resting state connectivity of the default mode network. <i>Brain, Behavior, and Immunity</i> , 2017, 62, 162-170.	4.1	87
38	Cardiovascular Reactivity to Acute Psychological Stress Following Sleep Deprivation. <i>Psychosomatic Medicine</i> , 2011, 73, 679-682.	2.0	84
39	Resting state connectivity of the medial prefrontal cortex covaries with individual differences in high-frequency heart rate variability. <i>Psychophysiology</i> , 2016, 53, 444-454.	2.4	83
40	Parental Education Predicts Corticostriatal Functionality in Adulthood. <i>Cerebral Cortex</i> , 2011, 21, 896-910.	2.9	80
41	Dispositional Mindfulness Co-Varies with Smaller Amygdala and Caudate Volumes in Community Adults. <i>PLoS ONE</i> , 2013, 8, e64574.	2.5	80
42	Functional MRI Can Be Highly Reliable, but It Depends on What You Measure: A Commentary on Elliott et al. (2020). <i>Psychological Science</i> , 2021, 32, 622-626.	3.3	79
43	Blunted cardiac stress reactivity relates to neural hypoactivation. <i>Psychophysiology</i> , 2013, 50, 219-229.	2.4	77
44	Resting high-frequency heart rate variability is related to resting brain perfusion. <i>Psychophysiology</i> , 2015, 52, 277-287.	2.4	76
45	Competing physiological pathways link individual differences in weight and abdominal adiposity to white matter microstructure. <i>NeuroImage</i> , 2013, 79, 129-137.	4.2	73
46	Neurobiological Pathways Linking Socioeconomic Position and Health. <i>Psychosomatic Medicine</i> , 2010, 72, 450-461.	2.0	72
47	Preclinical Atherosclerosis Covaries with Individual Differences in Reactivity and Functional Connectivity of the Amygdala. <i>Biological Psychiatry</i> , 2009, 65, 943-950.	1.3	70
48	Perceived discrimination and cardiovascular health disparities: a multisystem review and health neuroscience perspective. <i>Annals of the New York Academy of Sciences</i> , 2018, 1428, 170-207.	3.8	68
49	Use of Total Cerebral Blood Flow as an Imaging Biomarker of Known Cardiovascular Risks. <i>Stroke</i> , 2013, 44, 2480-2485.	2.0	62
50	Greater intima-media thickness in the carotid bulb is associated with reduced baroreflex sensitivity. <i>American Journal of Hypertension</i> , 2002, 15, 486-491.	2.0	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. <i>Psychosomatic Medicine</i> , 2005, 67, 553-560.	2.0	60
52	Is There a Functional Neural Correlate of Individual Differences in Cardiovascular Reactivity?. <i>Psychosomatic Medicine</i> , 2005, 67, 31-39.	2.0	58
53	Inhibition-related activity in subgenual cingulate is associated with symptom severity in major depression. <i>Psychiatry Research - Neuroimaging</i> , 2009, 172, 1-6.	1.8	58
54	Frontal gray matter atrophy in middle aged adults with type 1 diabetes is independent of cardiovascular risk factors and diabetes complications. <i>Journal of Diabetes and Its Complications</i> , 2013, 27, 558-564.	2.3	55

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55	Neighborhood Socioeconomic Status and Cognitive Function in Late Life. <i>American Journal of Epidemiology</i> , 2016, 183, 1088-1097.	3.4	55
56	A Neural Circuitry Linking Insulin Resistance to Depressed Mood. <i>Psychosomatic Medicine</i> , 2012, 74, 476-482.	2.0	54
57	A Brain Phenotype for Stressor-Evoked Blood Pressure Reactivity. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	53
58	Physiological recordings: Basic concepts and implementation during functional magnetic resonance imaging. <i>NeuroImage</i> , 2009, 47, 1105-1115.	4.2	52
59	Community Socioeconomic Disadvantage in Midlife Relates to Cortical Morphology via Neuroendocrine and Cardiometabolic Pathways. <i>Cerebral Cortex</i> , 2017, 27, bhv233.	2.9	52
60	A population neuroscience approach to the study of cerebral small vessel disease in midlife and late life: an invited review. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H1117-H1136.	3.2	52
61	Host in the machine: A neurobiological perspective on psychological stress and cardiovascular disease.. <i>American Psychologist</i> , 2018, 73, 1031-1044.	4.2	51
62	Health Neuroscience. <i>Current Directions in Psychological Science</i> , 2014, 23, 446-453.	5.3	50
63	Social network diversity and white matter microstructural integrity in humans. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 1169-1176.	3.0	48
64	Body-Brain Connections: The Effects of Obesity and Behavioral Interventions on Neurocognitive Aging. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 115.	3.4	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. <i>Current Cardiology Reports</i> , 2018, 20, 128.	2.9	43
67	Cerebral perfusion alterations and cerebral amyloid in autosomal dominant Alzheimer disease. <i>Neurology</i> , 2014, 83, 710-717.	1.1	41
68	Relationship between temporal changes in cardiac parasympathetic activity and motion sickness severity. <i>Psychophysiology</i> , 2003, 40, 39-44.	2.4	40
69	Childhood physical abuse predicts stressor-evoked activity within central visceral control regions. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 474-485.	3.0	40
70	Susceptibility to Nausea and Motion Sickness as a Function of the Menstrual Cycle. <i>Women's Health Issues</i> , 2008, 18, 328-335.	2.0	39
71	Gastric myoelectrical and autonomic cardiac reactivity to laboratory stressors. <i>Psychophysiology</i> , 2001, 38, 642-652.	2.4	38
72	Test-retest reliability of an fMRI paradigm for studies of cardiovascular reactivity. <i>Psychophysiology</i> , 2012, 49, 873-884.	2.4	38

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73	Cardiac Vagal Control in Nonmedicated Depressed Women and Nondepressed Controls. <i>Psychosomatic Medicine</i> , 2011, 73, 336-343.	2.0	37
74	Heightened Resting Neural Activity Predicts Exaggerated Stressor-Evoked Blood Pressure Reactivity. <i>Hypertension</i> , 2009, 53, 819-825.	2.7	36
75	Resting state functional connectivity within the cingulate cortex jointly predicts agreeableness and stressor-evoked cardiovascular reactivity. <i>NeuroImage</i> , 2011, 55, 363-370.	4.2	34
76	Retrospectively reported childhood physical abuse, systemic inflammation, and resting corticolimbic connectivity in midlife adults. <i>Brain, Behavior, and Immunity</i> , 2019, 82, 203-213.	4.1	34
77	Gain in Adiposity Across 15 Years is Associated With Reduced Gray Matter Volume in Healthy Women. <i>Psychosomatic Medicine</i> , 2009, 71, 485-490.	2.0	33
78	Cortical thickness and resting-state cardiac function across the lifespan: A cross-sectional pooled mega-analysis. <i>Psychophysiology</i> , 2021, 58, e13688.	2.4	33
79	Contributions of Neuroscience to the Study of Socioeconomic Health Disparities. <i>Psychosomatic Medicine</i> , 2013, 75, 610-615.	2.0	31
80	Is Cardiovascular Reactivity Associated With Atherosclerosis Among Hypertensives?. <i>Hypertension</i> , 2002, 40, 742-747.	2.7	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. <i>Nutrition Research</i> , 2018, 54, 23-32.	2.9	29
82	Increased stressor-evoked cardiovascular reactivity is associated with reduced amygdala and hippocampus volume. <i>Psychophysiology</i> , 2019, 56, e13277.	2.4	28
83	Long-Term Ambient Air Pollution Exposures and Circulating and Stimulated Inflammatory Mediators in a Cohort of Midlife Adults. <i>Environmental Health Perspectives</i> , 2021, 129, 57007.	6.0	27
84	Maternal depression in childhood and aggression in young adulthood: evidence for mediation by offspring amygdala-hippocampal volume ratio. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2015, 56, 1083-1091.	5.2	25
85	Sex differences in the association between stressor-evoked interleukin-6 reactivity and C-reactive protein. <i>Brain, Behavior, and Immunity</i> , 2016, 58, 173-180.	4.1	25
86	Personality Correlates of Midlife Cardiometabolic Risk: The Explanatory Role of Higher-Order Factors of the Five-Factor Model. <i>Journal of Personality</i> , 2016, 84, 765-776.	3.2	22
87	Prehypertensive Blood Pressures and Regional Cerebral Blood Flow Independently Relate to Cognitive Performance in Midlife. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	22
88	Trajectories of peripheral interleukin-6, structure of the hippocampus, and cognitive impairment over 14 years in older adults. <i>Neurobiology of Aging</i> , 2015, 36, 3038-3044.	3.1	21
89	Cerebrovascular function in hypertension: Does high blood pressure make you old?. <i>Psychophysiology</i> , 2021, 58, e13654.	2.4	21
90	Affective brain patterns as multivariate neural correlates of cardiovascular disease risk. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 1034-1045.	3.0	20

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91	Basal ganglia morphology links the metabolic syndrome and depressive symptoms. <i>Physiology and Behavior</i> , 2014, 123, 214-222.	2.1	18
92	Cerebral Blood Flow Links Insulin Resistance and Baroreflex Sensitivity. <i>PLoS ONE</i> , 2013, 8, e83288.	2.5	18
93	Ventromedial prefrontal cortex connectivity during and after psychological stress in women. <i>Psychophysiology</i> , 2019, 56, e13445.	2.4	17
94	Does well-being associate with stress physiology? A systematic review and meta-analysis.. <i>Health Psychology</i> , 2020, 39, 879-890.	1.6	17
95	Relationship of gastric myoelectrical and cardiac parasympathetic activity to chemotherapy-induced nausea. <i>Journal of Psychosomatic Research</i> , 2001, 50, 263-266.	2.6	16
96	Cerebrovascular disease: Neuroimaging of cerebral small vessel disease. <i>Progress in Molecular Biology and Translational Science</i> , 2019, 165, 225-255.	1.7	16
97	PhysioScripts: An extensible, open source platform for the processing of physiological data. <i>Behavior Research Methods</i> , 2013, 45, 125-131.	4.0	14
98	Blood pressure interacts with APOE ϵ 4 to predict memory performance in a midlife sample.. <i>Neuropsychology</i> , 2015, 29, 693-702.	1.3	14
99	Vagal function in health and disease: studies in Pittsburgh. <i>Physiology and Behavior</i> , 2002, 77, 693-698.	2.1	13
100	Associations of immunometabolic risk factors with symptoms of depression and anxiety: The role of cardiac vagal activity. <i>Brain, Behavior, and Immunity</i> , 2018, 73, 493-503.	4.1	13
101	Taking rejection to heart: Associations between blood pressure and sensitivity to social pain. <i>Biological Psychology</i> , 2018, 139, 87-95.	2.2	11
102	The Social Brain, Stress, and Psychopathology. <i>JAMA Psychiatry</i> , 2014, 71, 622.	11.0	10
103	Brain Regional Blood Flow and Working Memory Performance Predict Change in Blood Pressure Over 2 Years. <i>Hypertension</i> , 2017, 70, 1132-1141.	2.7	10
104	Dual impedance cardiography: An inexpensive and reliable method to assess arterial stiffness. <i>Psychophysiology</i> , 2021, 58, e13772.	2.4	9
105	The effects of omega-3 fatty acids on neuropsychological functioning and brain morphology in mid-life adults: a randomized clinical trial. <i>Psychological Medicine</i> , 2020, 50, 2425-2434.	4.5	8
106	Relationship between Dispositional Mindfulness, Psychological Health, and Diet Quality among Healthy Midlife Adults. <i>Nutrients</i> , 2020, 12, 3414.	4.1	8
107	Socioeconomic disparities of depressive symptoms and cytokines in hepatocellular carcinoma. <i>Psycho-Oncology</i> , 2019, 28, 1624-1632.	2.3	5
108	Is stressor-evoked cardiovascular reactivity a pathway linking positive and negative emotionality to preclinical cardiovascular disease risk?. <i>Psychophysiology</i> , 2021, 58, e13741.	2.4	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. <i>Affective Science</i> , 2022, 3, 406-424.	2.6	5
110	An online Trier social stress paradigm to evoke affective and cardiovascular responses. <i>Psychophysiology</i> , 2022, 59, e14067.	2.4	5
111	Ectopic adiposity is associated with autonomic risk factors and subclinical cardiovascular disease in young adults. <i>Obesity</i> , 2015, 23, 2030-2036.	3.0	3
112	Resting (Tonic) Blood Pressure Is Associated With Sensitivity to Imagined and Acute Experiences of Social Pain: Evidence From Three Studies. <i>Psychological Science</i> , 2022, 33, 984-998.	3.3	3
113	Adiposity covaries with signatures of asymmetric feedback learning during adaptive decisions. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 1145-1156.	3.0	2
114	Cortisol activity partially accounts for a relationship between community socioeconomic position and atherosclerosis. <i>Psychoneuroendocrinology</i> , 2021, 131, 105292.	2.7	2
115	The prospective relationship between prehypertension, race, and whole-brain white matter microstructure. <i>Journal of Human Hypertension</i> , 2020, 34, 82-89.	2.2	1
116	The Neurobiology of Health Communication. <i>Psychosomatic Medicine</i> , 2017, 79, 376-378.	2.0	0
117	Frontostriatal Brain Activation Is Associated With the Longitudinal Progression of Cardiometabolic Risk. <i>Psychosomatic Medicine</i> , 2020, 82, 454-460.	2.0	0
118	The Personality Meta-trait of Stability and Carotid Artery Atherosclerosis. <i>Journal of Personality</i> , 2022, , .	3.2	0