

# Benson I Mwangi

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

6,901  
citations

87888

38  
h-index

66911

78  
g-index

94  
all docs

94  
docs citations

94  
times ranked

9947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical abnormalities in adults and adolescents with major depression based on brain scans from 20 cohorts worldwide in the ENIGMA Major Depressive Disorder Working Group. <i>Molecular Psychiatry</i> , 2017, 22, 900-909.	7.9	852
2	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014, 8, 153-182.	2.1	696
3	Cortical abnormalities in bipolar disorder: an MRI analysis of 6503 individuals from the ENIGMA Bipolar Disorder Working Group. <i>Molecular Psychiatry</i> , 2018, 23, 932-942.	7.9	558
4	A Review of Feature Reduction Techniques in Neuroimaging. <i>Neuroinformatics</i> , 2014, 12, 229-244.	2.8	418
5	Subcortical volumetric abnormalities in bipolar disorder. <i>Molecular Psychiatry</i> , 2016, 21, 1710-1716.	7.9	400
6	Areas of controversy in neuroprogression in bipolar disorder. <i>Acta Psychiatrica Scandinavica</i> , 2016, 134, 91-103.	4.5	173
7	Multi-centre diagnostic classification of individual structural neuroimaging scans from patients with major depressive disorder. <i>Brain</i> , 2012, 135, 1508-1521.	7.6	158
8	Identifying a clinical signature of suicidality among patients with mood disorders: A pilot study using a machine learning approach. <i>Journal of Affective Disorders</i> , 2016, 193, 109-116.	4.1	152
9	The impact of machine learning techniques in the study of bipolar disorder: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 538-554.	6.1	146
10	The insular cortex and the neuroanatomy of major depression. <i>Journal of Affective Disorders</i> , 2011, 133, 120-127.	4.1	145
11	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017, 11, 1497-1514.	2.1	144
12	Brain aging in major depressive disorder: results from the ENIGMA major depressive disorder working group. <i>Molecular Psychiatry</i> , 2021, 26, 5124-5139.	7.9	136
13	Virtual Histology of Cortical Thickness and Shared Neurobiology in 6 Psychiatric Disorders. <i>JAMA Psychiatry</i> , 2021, 78, 47.	11.0	136
14	Hippocampal subfield volumes in mood disorders. <i>Molecular Psychiatry</i> , 2017, 22, 1352-1358.	7.9	132
15	Using structural MRI to identify bipolar disorders – 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. <i>Molecular Psychiatry</i> , 2020, 25, 2130-2143.	7.9	127
16	Prediction of individual subject's age across the human lifespan using diffusion tensor imaging: A machine learning approach. <i>NeuroImage</i> , 2013, 75, 58-67.	4.2	111
17	Big data analytics and machine learning: 2015 and beyond. <i>Lancet Psychiatry</i> , 2016, 3, 13-15.	7.4	110
18	Neuroprogression and illness trajectories in bipolar disorder. <i>Expert Review of Neurotherapeutics</i> , 2017, 17, 277-285.	2.8	99

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19	Identification and individualized prediction of clinical phenotypes in bipolar disorders using neurocognitive data, neuroimaging scans and machine learning. <i>NeuroImage</i> , 2017, 145, 254-264.	4.2	98
20	Lifespan Gyrfication Trajectories of Human Brain in Healthy Individuals and Patients with Major Psychiatric Disorders. <i>Scientific Reports</i> , 2017, 7, 511.	3.3	98
21	Hippocampal volume and verbal memory performance in late-stage bipolar disorder. <i>Journal of Psychiatric Research</i> , 2016, 73, 102-107.	3.1	95
22	Prediction of illness severity in patients with major depression using structural MR brain scans. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 64-71.	3.4	89
23	Brainstem abnormalities in attention deficit hyperactivity disorder support high accuracy individual diagnostic classification. <i>Human Brain Mapping</i> , 2014, 35, 5179-5189.	3.6	83
24	Reduced hippocampus volume and memory performance in bipolar disorder patients carrying the BDNF val66met met allele. <i>Journal of Affective Disorders</i> , 2016, 198, 198-205.	4.1	80
25	Brain structural abnormalities in obesity: relation to age, genetic risk, and common psychiatric disorders. <i>Molecular Psychiatry</i> , 2021, 26, 4839-4852.	7.9	76
26	Machine learning and big data analytics in bipolar disorder: A position paper from the International Society for Bipolar Disorders Big Data Task Force. <i>Bipolar Disorders</i> , 2019, 21, 582-594.	1.9	74
27	The Association Between Familial Risk and Brain Abnormalities Is Disease Specific: An ENIGMA-Relatives Study of Schizophrenia and Bipolar Disorder. <i>Biological Psychiatry</i> , 2019, 86, 545-556.	1.3	67
28	Diffusion tensor imaging of the human cerebellar pathways and their interplay with cerebral macrostructure. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 41.	1.7	63
29	Changes in the corpus callosum in women with late-stage bipolar disorder. <i>Acta Psychiatrica Scandinavica</i> , 2015, 131, 458-464.	4.5	58
30	Individualized Prediction and Clinical Staging of Bipolar Disorders Using Neuroanatomical Biomarkers. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 186-194.	1.5	58
31	Hippocampal Subfield Volumes in Patients With First-Episode Psychosis. <i>Schizophrenia Bulletin</i> , 2018, 44, 552-559.	4.3	57
32	Visualization and unsupervised predictive clustering of high-dimensional multimodal neuroimaging data. <i>Journal of Neuroscience Methods</i> , 2014, 236, 19-25.	2.5	53
33	<sc>Mega-analysis</sc> methods in <sc>ENIGMA</sc>: The experience of the generalized anxiety disorder working group. <i>Human Brain Mapping</i> , 2022, 43, 255-277.	3.6	51
34	Hippocampal subfield volumes in children and adolescents with mood disorders. <i>Journal of Psychiatric Research</i> , 2018, 101, 57-62.	3.1	49
35	Cortical thickness patterns as state biomarker of anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2018, 51, 241-249.	4.0	48
36	Reduced white matter integrity and verbal fluency impairment in young adults with bipolar disorder: A diffusion tensor imaging study. <i>Journal of Psychiatric Research</i> , 2015, 62, 115-122.	3.1	47

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37	Volumetric brain magnetic resonance imaging predicts functioning in bipolar disorder: A machine learning approach. <i>Journal of Psychiatric Research</i> , 2018, 103, 237-243.	3.1	47
38	Interaction between BDNF rs6265 Met allele and low family cohesion is associated with smaller left hippocampal volume in pediatric bipolar disorder. <i>Journal of Affective Disorders</i> , 2016, 189, 94-97.	4.1	45
39	The medial forebrain bundle as a deep brain stimulation target for treatment resistant depression: A review of published data. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2015, 58, 59-70.	4.8	39
40	Individualized identification of euthymic bipolar disorder using the Cambridge Neuropsychological Test Automated Battery (CANTAB) and machine learning. <i>Journal of Affective Disorders</i> , 2016, 192, 219-225.	4.1	39
41	Distinctive Neuroanatomical Substrates for Depression in Bipolar Disorder versus Major Depressive Disorder. <i>Cerebral Cortex</i> , 2019, 29, 202-214.	2.9	39
42	Identifying neuroanatomical signatures of anorexia nervosa: a multivariate machine learning approach. <i>Psychological Medicine</i> , 2015, 45, 2805-2812.	4.5	36
43	Entorhinal Cortex Thickness across the Human Lifespan. <i>Journal of Neuroimaging</i> , 2016, 26, 278-282.	2.0	36
44	Development and validation of a brain maturation index using longitudinal neuroanatomical scans. <i>NeuroImage</i> , 2015, 117, 311-318.	4.2	34
45	Longitudinal Analysis of Quantitative Brain MRI in Astronauts Following Microgravity Exposure. <i>Journal of Neuroimaging</i> , 2019, 29, 323-330.	2.0	33
46	<sc>ENIGMAâ€œanxiety</sc> working group: Rationale for and organization of <sc>largeâ€œscale</sc> neuroimaging studies of anxiety disorders. <i>Human Brain Mapping</i> , 2022, 43, 83-112.	3.6	31
47	Brain structural correlates of insomnia severity in 1053 individuals with major depressive disorder: results from the ENIGMA MDD Working Group. <i>Translational Psychiatry</i> , 2020, 10, 425.	4.8	31
48	The relationship between cortical thickness and body mass index differs between women with anorexia nervosa and healthy controls. <i>Psychiatry Research - Neuroimaging</i> , 2016, 248, 105-109.	1.8	27
49	Prediction of pediatric unipolar depression using multiple neuromorphometric measurements: A pattern classification approach. <i>Journal of Psychiatric Research</i> , 2015, 62, 84-91.	3.1	26
50	Prediction of pediatric bipolar disorder using neuroanatomical signatures of the amygdala. <i>Bipolar Disorders</i> , 2014, 16, 713-721.	1.9	25
51	Predictive classification of pediatric bipolar disorder using atlas-based diffusion weighted imaging and support vector machines. <i>Psychiatry Research - Neuroimaging</i> , 2015, 234, 265-271.	1.8	25
52	Predictive classification of individual magnetic resonance imaging scans from children and adolescents. <i>European Child and Adolescent Psychiatry</i> , 2013, 22, 733-744.	4.7	24
53	Quantitative MRI volumetry, diffusivity, cerebrovascular flow, and cranial hydrodynamics during head-down tilt and hypercapnia: the SPACECOT study. <i>Journal of Applied Physiology</i> , 2017, 122, 1155-1166.	2.5	24
54	Cortical and subcortical brain structure in generalized anxiety disorder: findings from 28 research sites in the ENIGMA-Anxiety Working Group. <i>Translational Psychiatry</i> , 2021, 11, 502.	4.8	24

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55	Evidence of altered membrane phospholipid metabolism in the anterior cingulate cortex and striatum of patients with bipolar disorder I: A multi-voxel 1H MRS study. <i>Journal of Psychiatric Research</i> , 2016, 81, 48-55.	3.1	23
56	The Clinical Picture of Psychosis in Manifest Huntington's Disease: A Comprehensive Analysis of the Enroll-HD Database. <i>Frontiers in Neurology</i> , 2018, 9, 930.	2.4	23
57	Peripheral biomarker signatures of bipolar disorder and schizophrenia: A machine learning approach. <i>Schizophrenia Research</i> , 2017, 188, 182-184.	2.0	22
58	Shared clinical associations between obesity and impulsivity in rapid cycling bipolar disorder: A systematic review. <i>Journal of Affective Disorders</i> , 2014, 168, 306-313.	4.1	19
59	Reduced Inhibitory Control Mediates the Relationship Between Cortical Thickness in the Right Superior Frontal Gyrus and Body Mass Index. <i>Neuropsychopharmacology</i> , 2016, 41, 2275-2282.	5.4	19
60	Limbic Pathway Correlates of Cognitive Impairment in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2017, 27, 37-42.	2.0	19
61	Machine learning-guided intervention trials to predict treatment response at an individual patient level: an important second step following randomized clinical trials. <i>Molecular Psychiatry</i> , 2020, 25, 701-702.	7.9	19
62	Neurocognitive functioning in individuals with bipolar disorder and their healthy siblings: A preliminary study. <i>Journal of Affective Disorders</i> , 2016, 201, 51-56.	4.1	18
63	Measures of possible allostatic load in comorbid cocaine and alcohol use disorder: Brain white matter integrity, telomere length, and anti-saccade performance. <i>PLoS ONE</i> , 2019, 14, e0199729.	2.5	17
64	Elevated Choline-Containing Compound Levels in Rapid Cycling Bipolar Disorder. <i>Neuropsychopharmacology</i> , 2017, 42, 2252-2258.	5.4	16
65	Early identification of bipolar disorder among young adults – a 22-year community birth cohort. <i>Acta Psychiatrica Scandinavica</i> , 2020, 142, 476-485.	4.5	16
66	Prediction of suicide attempts in a prospective cohort study with a nationally representative sample of the US population. <i>Psychological Medicine</i> , 2022, 52, 2985-2996.	4.5	16
67	Quantitative Limbic System Mapping of Main Cognitive Domains in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2018, 9, 132.	2.4	14
68	Intelligence, educational attainment, and brain structure in those at familial high-risk for schizophrenia or bipolar disorder. <i>Human Brain Mapping</i> , 2022, 43, 414-430.	3.6	14
69	Premorbid obesity and metabolic disturbances as promising clinical targets for the prevention and early screening of bipolar disorder. <i>Medical Hypotheses</i> , 2015, 84, 285-293.	1.5	12
70	Prediction of vulnerability to bipolar disorder using multivariate neurocognitive patterns: a pilot study. <i>International Journal of Bipolar Disorders</i> , 2017, 5, 32.	2.2	10
71	Molecular Senescence Is Associated With White Matter Microstructural Damage in Late-Life Depression. <i>American Journal of Geriatric Psychiatry</i> , 2019, 27, 1414-1418.	1.2	10
72	The role of white matter in personality traits and affective processing in bipolar disorder. <i>Journal of Psychiatric Research</i> , 2016, 80, 64-72.	3.1	9

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73	Brain Quantitative MRI Metrics in Astronauts as a Unique Professional Group. <i>Journal of Neuroimaging</i> , 2018, 28, 256-268.	2.0	8
74	Effects of valproate on brain volumes in pediatric bipolar disorder: A preliminary study. <i>Psychiatry Research - Neuroimaging</i> , 2018, 278, 65-68.	1.8	8
75	Big Data and Machine Learning Meet the Health Sciences. , 2019, , 1-13.		8
76	Eotaxin-1/CCL11 correlates with left superior temporal gyrus in bipolar disorder: A preliminary report suggesting accelerated brain aging. <i>Journal of Affective Disorders</i> , 2020, 273, 592-596.	4.1	8
77	Confirmation of MRI anatomical measurements as endophenotypic markers for bipolar disorder in a new sample from the NIMH Genetics of Bipolar Disorder in Latino Populations study. <i>Psychiatry Research - Neuroimaging</i> , 2016, 247, 34-41.	1.8	6
78	Brain gyrfication and neuroprogression in bipolar disorder. <i>Acta Psychiatrica Scandinavica</i> , 2017, 135, 612-613.	4.5	6
79	Altered neurochemistry in the anterior white matter of bipolar children and adolescents: a multivoxel 1H MRS study. <i>Molecular Psychiatry</i> , 2021, 26, 4117-4126.	7.9	6
80	The use of component-wise gradient boosting to assess the possible role of cognitive measures as markers of vulnerability to pediatric bipolar disorder. <i>Cognitive Neuropsychiatry</i> , 2019, 24, 93-107.	1.3	4
81	White matter microstructure associated with anhedonia among individuals with bipolar disorders and high-risk for bipolar disorders. <i>Journal of Affective Disorders</i> , 2022, 300, 91-98.	4.1	4
82	Diffusion Tensor Imagingâ€Defined Sulcal Enlargement Is Related to Cognitive Impairment in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2017, 27, 312-317.	2.0	3
83	MR Spectroscopy Findings of the Basal Ganglia in Bipolar Disorders: a Systematic Review. <i>Current Psychiatry Reviews</i> , 2018, 14, 99-104.	0.9	3
84	Smaller left anterior cingulate cortex in non-bipolar relatives of patients with bipolar disorder. <i>Revista Brasileira De Psiquiatria</i> , 2019, 41, 254-256.	1.7	3
85	Evidence of altered metabolism of cellular membranes in bipolar disorder comorbid with post-traumatic stress disorder. <i>Journal of Affective Disorders</i> , 2021, 289, 81-87.	4.1	3
86	Correlations between peripheral levels of inflammatory mediators and frontolimbic structures in bipolar disorder: an exploratory analysis. <i>CNS Spectrums</i> , 2022, 27, 639-644.	1.2	3
87	The role of educational attainment and brain morphology in major depressive disorder: Findings from the ENIGMA major depressive disorder consortium.. , 2022, 131, 664-673.		2
88	613. Obesity-Related Thinning in the Frontal Cortex in Patients with Bipolar I Disorder: Correlations with Functioning. <i>Biological Psychiatry</i> , 2017, 81, S248.	1.3	1
89	C-Reactive Protein and the Uncinate Fasciculus in Anhedonia and Depression. <i>Biological Psychiatry</i> , 2021, 89, S272.	1.3	1
90	An Overview of Machine Learning Applications in Mood Disorders. , 2021, , 206-218.		0

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91	Investigation of endophenotype potential of decreased fractional anisotropy in pediatric bipolar disorder patients and unrelated offspring of bipolar disorder patients. <i>CNS Spectrums</i> , 2021, , 1-7.	1.2	0
92	P.0092 The efficacy of smartphone-based interventions in bipolar disorder: systematic-review and meta-analyses. A position paper from the ISBD Big Data Task-Force. <i>European Neuropsychopharmacology</i> , 2021, 53, S65-S66.	0.7	0