

Matthew J Betts

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,788
citations

471509

17
h-index

454955

30
g-index

41
all docs

41
docs citations

41
times ranked

2177
citing authors

#	ARTICLE	IF	CITATIONS
1	Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases. <i>Brain</i> , 2019, 142, 2558-2571.	7.6	219
2	<i>In Vivo</i> MRI Mapping of Brain Iron Deposition across the Adult Lifespan. <i>Journal of Neuroscience</i> , 2016, 36, 364-374.	3.6	217
3	The whole-brain pattern of magnetic susceptibility perturbations in Parkinson's disease. <i>Brain</i> , 2017, 140, 118-131.	7.6	154
4	International Consensus Based Review and Recommendations for Minimum Reporting Standards in Research on Transcutaneous Vagus Nerve Stimulation (Version 2020). <i>Frontiers in Human Neuroscience</i> , 2020, 14, 568051.	2.0	143
5	In vivo MRI assessment of the human locus coeruleus along its rostrocaudal extent in young and older adults. <i>NeuroImage</i> , 2017, 163, 150-159.	4.2	117
6	<i>In vivo</i> visualization of age-related differences in the locus coeruleus. <i>Neurobiology of Aging</i> , 2019, 74, 101-111.	3.1	117
7	Locus coeruleus integrity in old age is selectively related to memories linked with salient negative events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2228-2233.	7.1	104
8	High-resolution characterisation of the aging brain using simultaneous quantitative susceptibility mapping (QSM) and R2* measurements at 7 T. <i>NeuroImage</i> , 2016, 138, 43-63.	4.2	101
9	Imaging biomarkers in neurodegeneration: current and future practices. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 49.	6.2	96
10	Noradrenergic-dependent functions are associated with age-related locus coeruleus signal intensity differences. <i>Nature Communications</i> , 2020, 11, 1712.	12.8	74
11	Regional locus coeruleus degeneration is uncoupled from noradrenergic terminal loss in Parkinson's disease. <i>Brain</i> , 2021, 144, 2732-2744.	7.6	57
12	Locus coeruleus MRI contrast is reduced in Alzheimer's disease dementia and correlates with CSF A β ² levels. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 281-285.	2.4	56
13	Allosteric modulation of the group III mGlu ₄ receptor provides functional neuroprotection in the 6-hydroxydopamine rat model of Parkinson's disease. <i>British Journal of Pharmacology</i> , 2012, 166, 2317-2330.	5.4	55
14	Symptomatic and neuroprotective effects following activation of nigral group III metabotropic glutamate receptors in rodent models of Parkinson's disease. <i>British Journal of Pharmacology</i> , 2010, 160, 1741-1753.	5.4	44
15	Relevance of biomarkers across different neurodegenerative diseases. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 56.	6.2	42
16	Antiparkinsonian potential of targeting group III metabotropic glutamate receptor subtypes in the rodent substantia nigra pars reticulata. <i>British Journal of Pharmacology</i> , 2012, 165, 1034-1045.	5.4	40
17	Associations among locus coeruleus catecholamines, tau pathology, and memory in aging. <i>Neuropsychopharmacology</i> , 2022, 47, 1106-1113.	5.4	27
18	CSF total tau levels are associated with hippocampal novelty irrespective of hippocampal volume. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 782-790.	2.4	26

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19	Emotional arousal and recognition memory are differentially reflected in pupil diameter responses during emotional memory for negative events in younger and older adults. <i>Neurobiology of Aging</i> , 2017, 58, 129-139.	3.1	20
20	Current challenges in reliably targeting the noradrenergic locus coeruleus using transcutaneous auricular vagus nerve stimulation (taVNS). <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 236, 102900.	2.8	19
21	Learning in anticipation of reward and punishment: perspectives across the human lifespan. <i>Neurobiology of Aging</i> , 2020, 96, 49-57.	3.1	11
22	Midbrain fMRI: Applications, Limitations and Challenges. <i>Biological Magnetic Resonance</i> , 2015, , 581-609.	0.4	11
23	Fully automated deep learning-based localization and segmentation of the locus coeruleus in aging and Parkinson's disease using neuromelanin-sensitive MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 2129-2135.	2.8	8
24	Commentary: Locus Coeruleus Ablation Exacerbates Cognitive Deficits, Neuropathology, and Lethality in P301S Tau Transgenic Mice. <i>Frontiers in Neuroscience</i> , 2018, 12, 401.	2.8	7
25	The Role of the Striatum in Learning to Orthogonalize Action and Valence: A Combined PET and 7T MRI Aging Study. <i>Cerebral Cortex</i> , 2020, 30, 3340-3351.	2.9	7
26	Automated Segmentation of the Locus Coeruleus from Neuromelanin-Sensitive 3T MRI Using Deep Convolutional Neural Networks. <i>Informatik Aktuell</i> , 2020, , 61-66.	0.6	5
27	Older adults show a reduced tendency to engage in context-dependent decision biases. <i>Neuropsychologia</i> , 2020, 142, 107445.	1.6	3
28	Localization of the Locus Coeruleus in MRI via Coordinate Regression. <i>Informatik Aktuell</i> , 2021, , 10-15.	0.6	2
29	[P3]: USING NEUROMELANIN-SENSITIVE MRI TO CHARACTERISE THE STRUCTURAL INTEGRITY OF THE HUMAN LOCUS COERULEUS AT DIFFERENT STAGES OF ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P1114.	0.8	0
30	[P2]: MODELING OF HIDDEN CAUSES FOR DYNAMIC CHANGES IN STRUCTURAL INTEGRITY AND COGNITION IN SUBJECTIVE COGNITIVE DECLINE: A DELCODE PROJECT. <i>Alzheimer's and Dementia</i> , 2017, 13, P634.	0.8	0
31	F4: RELATIONSHIP BETWEEN LOCUS COERULEUS MRI CONTRAST, COGNITION AND CSF BIOMARKERS IN AGING AND ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2018, 14, P1393.	0.8	0
32	Functional indicators of a decline in the noradrenergic locus coeruleus in ageing. <i>Alzheimer's and Dementia</i> , 2020, 16, e044582.	0.8	0
33	In vivo locus coeruleus imaging in Alzheimer's and Parkinson's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e044587.	0.8	0
34	CSF and PET biomarkers for noradrenergic dysfunction in neurodegenerative disease: A systematic review and meta-analysis. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0
35	A proposition for analyses and reporting standards for structural and functional magnetic resonance imaging of the noradrenergic locus coeruleus. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0
36	Quantitative R1 in the locus coeruleus in Alzheimer's disease dementia. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Automated segmentation of the locus coeruleus in aging and Alzheimer's disease using 3T neuromelanin-sensitive MRI.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e052564.	0.8	0