

# Franklin I Aigbirhio

## List of Publications by Year in descending order

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65  
papers

2,361  
citations

257450

24  
h-index

223800

46  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular pathology and synaptic loss in primary tauopathies: an 18F-AV-1451 and 11C-UCB-J PET study. <i>Brain</i> , 2022, 145, 340-348.	7.6	21
2	In Vivo <sup>18</sup> F-Flortaucipir PET Does Not Accurately Support the Staging of Progressive Supranuclear Palsy. <i>Journal of Nuclear Medicine</i> , 2022, 63, 1052-1057.	5.0	9
3	Reduced synaptic density in progressive supranuclear palsy and corticobasal syndrome, revealed by [11C]UCB-J PET. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, A78.3-A78.	1.9	1
4	Imaging tau burden in dementia with Lewy bodies using [18F]-AV1451 positron emission tomography. <i>Neurobiology of Aging</i> , 2021, 101, 172-180.	3.1	14
5	[18F]-AV-1451 binding in the substantia nigra as a marker of neuromelanin in Lewy body diseases. <i>Brain Communications</i> , 2021, 3, fcab177.	3.3	2
6	Synthesis and Assessment of Novel Probes for Imaging Tau Pathology in Transgenic Mouse and Rat Models. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1885-1893.	3.5	8
7	Neuroinflammation predicts disease progression in progressive supranuclear palsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 769-775.	1.9	40
8	[11C]PK11195-PET Brain Imaging of the Mitochondrial Translocator Protein in Mitochondrial Disease. <i>Neurology</i> , 2021, 96, e2761-e2773.	1.1	7
9	In vivo coupling of dendritic complexity with presynaptic density in primary tauopathies. <i>Neurobiology of Aging</i> , 2021, 101, 187-198.	3.1	17
10	Synaptic density in carriers of C9orf72 mutations: a [ <sup>11</sup> C]UCB-J PET study. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1515-1523.	3.7	27
11	Preclinical evaluation of (S)-[18F]GE387, a novel 18-kDa translocator protein (TSPO) PET radioligand with low binding sensitivity to human polymorphism rs6971. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 125-136.	6.4	11
12	Mapping the binding site topology of amyloid protein aggregates using multivalent ligands. <i>Chemical Science</i> , 2021, 12, 8892-8899.	7.4	6
13	Spatial and Temporal Pattern of Ischemia and Abnormal Vascular Function Following Traumatic Brain Injury. <i>JAMA Neurology</i> , 2020, 77, 339.	9.0	49
14	DJ-1 can form $\beta$ -sheet structured aggregates that co-localize with pathological amyloid deposits. <i>Neurobiology of Disease</i> , 2020, 134, 104629.	4.4	13
15	Synaptic Loss in Primary Tauopathies Revealed by [ <sup>11</sup> C]UCB-J Positron Emission Tomography. <i>Movement Disorders</i> , 2020, 35, 1834-1842.	3.9	61
16	Neuroinflammation and Tau Colocalize in vivo in Progressive Supranuclear Palsy. <i>Annals of Neurology</i> , 2020, 88, 1194-1204.	5.3	38
17	Neuroinflammation and protein aggregation co-localize across the frontotemporal dementia spectrum. <i>Brain</i> , 2020, 143, 1010-1026.	7.6	68
18	A fluorescent molecular imaging probe with selectivity for soluble tau aggregated protein. <i>Chemical Science</i> , 2020, 11, 4773-4778.	7.4	16

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19	Automated radiosynthesis of [ <sup>11</sup> C]UCBâ€ for imaging synaptic density by positron emission tomography. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020, 63, 151-158.	1.0	15
20	<sup>11</sup> C-UCB-J synaptic PET and multimodal imaging in dementia with Lewy bodies. <i>European Journal of Hybrid Imaging</i> , 2020, 4, 25.	1.5	18
21	Insula serotonin 2A receptor binding and gene expression contribute to serotonin transporter polymorphism anxious phenotype in primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14761-14768.	7.1	20
22	Assessing the Effects of Cytoprotectants on Selective Neuronal Loss, Sensorimotor Deficit and Microglial Activation after Temporary Middle Cerebral Occlusion. <i>Brain Sciences</i> , 2019, 9, 287.	2.3	4
23	A simple and efficient automated cGMPâ€compliant radiosynthesis of [ <sup>11</sup> C]metomidate using solid phase extraction cartridge purification. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2019, 62, 190-197.	1.0	4
24	Radiosynthesis of ( <i>R,S</i> )- <sup>18</sup> F]GE387: A Potential PET Radiotracer for Imaging Translocator Protein 18â€kDa (TSPO) with Low Binding Sensitivity to the Human Gene Polymorphism rs6971. <i>ChemMedChem</i> , 2019, 14, 982-993.	3.2	22
25	In vivo evidence for preâ€symptomatic neuroinflammation in a <i>MAPT</i> mutation carrier. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 373-378.	3.7	27
26	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. <i>ChemNanoMat</i> , 2018, 4, 361-372.	2.8	13
27	[ <i>Carboxyl</i> ]- <sup>11</sup> C]Labelling of Four Highâ€Affinity cPLA2± Inhibitors and Their Evaluation as Radioligands in Mice by Positron Emission Tomography. <i>ChemMedChem</i> , 2018, 13, 138-146.	3.2	5
28	[ <sup>18</sup> F]AV-1451 binding in vivo mirrors the expected distribution of TDP-43 pathology in the semantic variant of primary progressive aphasia. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, 1032-1037.	1.9	77
29	Neuroimaging of Inflammation in Memory and Related Other Disorders (NIMROD) study protocol: a deep phenotyping cohort study of the role of brain inflammation in dementia, depression and other neurological illnesses. <i>BMJ Open</i> , 2017, 7, e013187.	1.9	65
30	Detection and Characterization of Small Molecule Interactions with Fibrillar Protein Aggregates Using Microscale Thermophoresis. <i>ACS Chemical Neuroscience</i> , 2017, 8, 2088-2095.	3.5	13
31	[ <sup>15</sup> O]â€: ESTABLISHMENT OF A PET RADIOTRACER NETWORK FOR DEMENTIA RESEARCH. <i>Alzheimer's and Dementia</i> , 2017, 13, P117.	0.8	0
32	Effects of hyperoxia on <sup>18</sup> F-fluoro-misonidazole brain uptake and tissue oxygen tension following middle cerebral artery occlusion in rodents: Pilot studies. <i>PLoS ONE</i> , 2017, 12, e0187087.	2.5	3
33	Targeted Molecular Imaging in Adrenal Diseaseâ€”An Emerging Role for Metomidate PET-CT. <i>Diagnostics</i> , 2016, 6, 42.	2.6	21
34	Hypoxia and tissue destruction in pulmonary TB. <i>Thorax</i> , 2016, 71, 1145-1153.	5.6	133
35	Radiosynthesis of Carbon-11 Labeled Puromycin as a Potential PET Candidate for Imaging Protein Synthesis <i>in Vivo</i> . <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 647-651.	2.8	4
36	Synthesis, In Vitro Evaluation, and Radiolabeling of Fluorinated Puromycin Analogues: Potential Candidates for PET Imaging of Protein Synthesis. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9422-9430.	6.4	23

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37	Successful treatment of residual pituitary adenoma in persistent acromegaly following localisation by <sup>11</sup> C-methionine PET co-registered with MRI. <i>European Journal of Endocrinology</i> , 2016, 175, 485-498.	3.7	41
38	Pathophysiologic Mechanisms of Cerebral Ischemia and Diffusion Hypoxia in Traumatic Brain Injury. <i>JAMA Neurology</i> , 2016, 73, 542.	9.0	125
39	Dissociable Rate-Dependent Effects of Oral Methylphenidate on Impulsivity and $D_{2/3}$ Receptor Availability in the Striatum. <i>Journal of Neuroscience</i> , 2015, 35, 3747-3755.	3.6	54
40	White Matter Perivascular Spaces on Magnetic Resonance Imaging. <i>Stroke</i> , 2015, 46, 1707-1709.	2.0	77
41	Synthesis and Initial <i>in Vivo</i> Studies with [ <sup>11</sup> C]SB-216763: The First Radiolabeled Brain Penetrative Inhibitor of GSK-3. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 548-552.	2.8	38
42	An Efficient Method for Enhancing the Reactivity and Flexibility of [ <sup>18</sup> F]Fluoride Towards Nucleophilic Substitution Using Tetraethylammonium Bicarbonate. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6145-6149.	2.4	20
43	Radiosynthesis and characterization of astemizole derivatives as lead compounds toward PET imaging of $I_{\alpha}$ -pathology. <i>MedChemComm</i> , 2013, 4, 852.	3.4	24
44	Characterizing infarction and selective neuronal loss following temporary focal cerebral ischemia in the rat: A multi-modality imaging study. <i>Neurobiology of Disease</i> , 2013, 51, 120-132.	4.4	38
45	A comparison of four PET tracers for brain hypoxia mapping in a rodent model of stroke. <i>Nuclear Medicine and Biology</i> , 2013, 40, 338-344.	0.6	15
46	A positron emission tomography study of nigro-striatal dopaminergic mechanisms underlying attention: implications for ADHD and its treatment. <i>Brain</i> , 2013, 136, 3252-3270.	7.6	90
47	Is neural activation within the rescued penumbra impeded by selective neuronal loss?. <i>Brain</i> , 2013, 136, 1816-1829.	7.6	28
48	David James Silvester. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2013, 56, 338-339.	1.0	2
49	Evaluation of the Sensitivity and Specificity of <sup>11</sup> C-Metomidate Positron Emission Tomography (PET)-CT for Lateralizing Aldosterone Secretion by Conn's Adenomas. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 100-109.	3.6	203
50	Quantification of receptor-ligand binding potential in sub-striatal domains using probabilistic and template regions of interest. <i>NeuroImage</i> , 2011, 55, 101-112.	4.2	10
51	Single-subject statistical mapping of acute brain hypoxia in the rat following middle cerebral artery occlusion: A microPET study. <i>Experimental Neurology</i> , 2011, 229, 251-258.	4.1	17
52	Validation of reference tissue modelling for [ <sup>11</sup> C]flumazenil positron emission tomography following head injury. <i>Annals of Nuclear Medicine</i> , 2011, 25, 396-405.	2.2	19
53	An automated method for regular productions of copper-64 for PET radiopharmaceuticals. <i>Inorganica Chimica Acta</i> , 2010, 363, 1316-1319.	2.4	19
54	Cellular confocal fluorescence studies and cytotoxic activity of new Zn(ii) bis(thiosemicarbazonato) complexes. <i>Dalton Transactions</i> , 2008, , 2107.	3.3	83

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55	In Vitro and In Vivo Evaluations of a Hydrophilic <sup>64</sup> Cu-Bis(Thiosemicarbazonato)â€“Glucose Conjugate for Hypoxia Imaging. Journal of Nuclear Medicine, 2008, 49, 1862-1868. Comparison of Lorazepam	5.0	51
56	[7-Chloro-5-(2-chlorophenyl)-1,3-dihydro-3-hydroxy-2H-1,4-benzodiazepin-2-one] Occupancy of Rat Brain <sup>13</sup> Aminobutyric AcidA Receptors Measured Using in Vivo [ <sup>3</sup> H]Flumazenil (8-Fluoro) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Id (5,6-di	2.5	15
57	and [ <sup>11</sup> C]Flumazenil Micro-Positron Emission Tomography. Journal of Pharmacology and Experimental Therapeutics, 2007, 320, 1030-1037. Designing Zn(ii) and Cu(ii) derivatives as probes for in vitro fluorescence imaging. Dalton Transactions, 2007, , 4988.	3.3	72
58	Functionalized Bis(thiosemicarbazonato) Complexes of Zinc and Copper:Â Synthetic Platforms Toward Site-Specific Radiopharmaceuticals. Inorganic Chemistry, 2007, 46, 465-485.	4.0	134
59	Rapid preparation of [ <sup>11</sup> C]flumazenil: captive solvent synthesis combined with purification by analytical sized columns. Journal of Labelled Compounds and Radiopharmaceuticals, 2007, 50, 19-24.	1.0	24
60	Imaging of Brain Hypoxia in Permanent and Temporary Middle Cerebral Artery Occlusion in the Rat using <sup>18</sup> F-Fluoromisonidazole and Positron Emission Tomography: A Pilot Study. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 679-689.	4.3	62
61	Intrinsic Activated Microglia Map to the Peri-infarct Zone in the Subacute Phase of Ischemic Stroke. Stroke, 2006, 37, 1749-1753.	2.0	163
62	Chemistry of Nitrogen-13 and Oxygen-15. , 2005, , 119-140.		0
63	Flixotideâ„¢-pressurized metered-dose inhalers loaded with [ <sup>18</sup> F]fluticasone propionate particles for drug deposition studies in humans with PETâ€“formulation and analysis. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 55-70.	1.0	9
64	13th IIS(UK group) symposium. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 299-334.	1.0	3
65	Synthesis of [ <sup>18</sup> F]Fluoromisonidazole (1-(2-Hydroxy-3-[ <sup>18</sup> F]Fluoropropyl)-2-Nitroimidazole, [ <sup>18</sup> F]FMISO). , 0, , 41-49.		1