

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	Evaluation of the Sensitivity and Specificity of ¹¹ 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
2	Intrinsic Activated Microglia Map to the Peri-infarct Zone in the Subacute Phase of Ischemic Stroke. <i>Stroke</i> , 2006, 37, 1749-1753.	2.0	163
3	Functionalized Bis(thiosemicarbazonato) Complexes of Zinc and Copper: A Synthetic Platforms Toward Site-Specific Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2007, 46, 465-485.	4.0	134
4	Hypoxia and tissue destruction in pulmonary TB. <i>Thorax</i> , 2016, 71, 1145-1153.	5.6	133
5	Pathophysiologic Mechanisms of Cerebral Ischemia and Diffusion Hypoxia in Traumatic Brain Injury. <i>JAMA Neurology</i> , 2016, 73, 542.	9.0	125
6	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
7	Cellular confocal fluorescence studies and cytotoxic activity of new Zn(ii) bis(thiosemicarbazonato) complexes. <i>Dalton Transactions</i> , 2008, , 2107.	3.3	83
8	White Matter Perivascular Spaces on Magnetic Resonance Imaging. <i>Stroke</i> , 2015, 46, 1707-1709.	2.0	77
9	[¹⁸ 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
10	Designing Zn(ii) and Cu(ii) derivatives as probes for in vitro fluorescence imaging. <i>Dalton Transactions</i> , 2007, , 4988.	3.3	72
11	Neuroinflammation and protein aggregation co-localize across the frontotemporal dementia spectrum. <i>Brain</i> , 2020, 143, 1010-1026.	7.6	68
12	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
13	Imaging of Brain Hypoxia in Permanent and Temporary Middle Cerebral Artery Occlusion in the Rat using ¹⁸ F-Fluoromisonidazole and Positron Emission Tomography: A Pilot Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 679-689.	4.3	62
14	Synaptic Loss in Primary Tauopathies Revealed by [¹¹ C]UCBâ€ Positron Emission Tomography. <i>Movement Disorders</i> , 2020, 35, 1834-1842.	3.9	61
15	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
16	In Vitro and In Vivo Evaluations of a Hydrophilic ⁶⁴ Cu-Bis(Thiosemicarbazonato)â€Glucose Conjugate for Hypoxia Imaging. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1862-1868.	5.0	51
17	Spatial and Temporal Pattern of Ischemia and Abnormal Vascular Function Following Traumatic Brain Injury. <i>JAMA Neurology</i> , 2020, 77, 339.	9.0	49
18	Successful treatment of residual pituitary adenoma in persistent acromegaly following localisation by ¹¹ C-methionine PET co-registered with MRI. <i>European Journal of Endocrinology</i> , 2016, 175, 485-498.	3.7	41

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19	Neuroinflammation predicts disease progression in progressive supranuclear palsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 769-775.	1.9	40
20	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
21	Synthesis and Initial <i>in Vivo</i> Studies with [¹¹ 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
22	Neuroinflammation and Tau Colocalize <i>in vivo</i> in Progressive Supranuclear Palsy. <i>Annals of Neurology</i> , 2020, 88, 1194-1204.	5.3	38
23	Is neural activation within the rescued penumbra impeded by selective neuronal loss?. <i>Brain</i> , 2013, 136, 1816-1829.	7.6	28
24	<i>In vivo</i> evidence for pre-symptomatic neuroinflammation in a <i>MAPT</i> mutation carrier. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 373-378.	3.7	27
25	Synaptic density in carriers of C9orf72 mutations: a [¹¹ C]UCB-J PET study. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1515-1523.	3.7	27
26	Rapid preparation of [¹¹ C]flumazenil: captive solvent synthesis combined with purification by analytical sized columns. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2007, 50, 19-24.	1.0	24
27	Radiosynthesis and characterization of astemizole derivatives as lead compounds toward PET imaging of β -amyloid pathology. <i>MedChemComm</i> , 2013, 4, 852.	3.4	24
28	Synthesis, <i>In Vitro</i> 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
29	Radiosynthesis of [¹⁸ F]GE387: A Potential PET Radiotracer for Imaging Translocator Protein 18 kDa (TSPO) with Low Binding Sensitivity to the Human Gene Polymorphism rs6971. <i>ChemMedChem</i> , 2019, 14, 982-993.	3.2	22
30	Targeted Molecular Imaging in Adrenal Disease—An Emerging Role for Metomidate PET-CT. <i>Diagnostics</i> , 2016, 6, 42.	2.6	21
31	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
32	An Efficient Method for Enhancing the Reactivity and Flexibility of [¹⁸ F]Fluoride Towards Nucleophilic Substitution Using Tetraethylammonium Bicarbonate. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6145-6149.	2.4	20
33	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
34	An automated method for regular productions of copper-64 for PET radiopharmaceuticals. <i>Inorganica Chimica Acta</i> , 2010, 363, 1316-1319.	2.4	19
35	Validation of reference tissue modelling for [¹¹ C]flumazenil positron emission tomography following head injury. <i>Annals of Nuclear Medicine</i> , 2011, 25, 396-405.	2.2	19
36	11C-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

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37	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
38	In vivo coupling of dendritic complexity with presynaptic density in primary tauopathies. <i>Neurobiology of Aging</i> , 2021, 101, 187-198.	3.1	17
39	A fluorescent molecular imaging probe with selectivity for soluble tau aggregated protein. <i>Chemical Science</i> , 2020, 11, 4773-4778.	7.4	16
40	Comparison of Lorazepam [7-Chloro-5-(2-chlorophenyl)-1,3-dihydro-3-hydroxy-2H-1,4-benzodiazepin-2-one] Occupancy of Rat Brain ^{13}C -Aminobutyric Acid A Receptors Measured Using in Vivo ^3H Flumazenil (8-Fluoro) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Id (5,6-dihydro-2H-1,4-benzodiazepin-2-one) and ^{11}C Flumazenil Micro-Positron Emission Tomography. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 320, 1030-1037.	2.5	15
41	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
42	Automated radiosynthesis of [^{11}C]UCBâ€š for imaging synaptic density by positron emission tomography. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2020, 63, 151-158.	1.0	15
43	Imaging tau burden in dementia with Lewy bodies using ^{18}F -AV1451 positron emission tomography. <i>Neurobiology of Aging</i> , 2021, 101, 172-180.	3.1	14
44	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
45	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. <i>ChemNanoMat</i> , 2018, 4, 361-372.	2.8	13
46	DJ-1 can form β -sheet structured aggregates that co-localize with pathological amyloid deposits. <i>Neurobiology of Disease</i> , 2020, 134, 104629.	4.4	13
47	Preclinical evaluation of (S)- ^{18}F 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
48	Quantification of receptorâ€š ligand binding potential in sub-striatal domains using probabilistic and template regions of interest. <i>NeuroImage</i> , 2011, 55, 101-112.	4.2	10
49	Flixotideâ„¢-pressurized metered-dose inhalers loaded with ^{18}F fluticasone propionate particles for drug deposition studies in humans with PETâ€š formulation and analysis. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2004, 47, 55-70.	1.0	9
50	In Vivo ^{18}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
51	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
52	^{11}C PK11195-PET Brain Imaging of the Mitochondrial Translocator Protein in Mitochondrial Disease. <i>Neurology</i> , 2021, 96, e2761-e2773.	1.1	7
53	Mapping the binding site topology of amyloid protein aggregates using multivalent ligands. <i>Chemical Science</i> , 2021, 12, 8892-8899.	7.4	6
54	[^{11}C]Carboxylâ€š Labelling of Four Highâ€š Affinity cPLA2â€š Inhibitors and Their Evaluation as Radioligands in Mice by Positron Emission Tomography. <i>ChemMedChem</i> , 2018, 13, 138-146.	3.2	5

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55	Radiosynthesis of Carbon-11 Labeled Puromycin as a Potential PET Candidate for Imaging Protein Synthesis <i>in Vivo</i> . ACS Medicinal Chemistry Letters, 2016, 7, 647-651.	2.8	4
56	Assessing the Effects of Cytoprotectants on Selective Neuronal Loss, Sensorimotor Deficit and Microglial Activation after Temporary Middle Cerebral Occlusion. Brain Sciences, 2019, 9, 287.	2.3	4
57	A simple and efficient automated cGMP-compliant radiosynthesis of [¹¹ C]metomidate using solid phase extraction cartridge purification. Journal of Labelled Compounds and Radiopharmaceuticals, 2019, 62, 190-197.	1.0	4
58	13th IIS(UK group) symposium. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 299-334.	1.0	3
59	Effects of hyperoxia on 18F-fluoro-misonidazole brain uptake and tissue oxygen tension following middle cerebral artery occlusion in rodents: Pilot studies. PLoS ONE, 2017, 12, e0187087.	2.5	3
60	David James Silvester. Journal of Labelled Compounds and Radiopharmaceuticals, 2013, 56, 338-339.	1.0	2
61	[18F]-AV-1451 binding in the substantia nigra as a marker of neuromelanin in Lewy body diseases. Brain Communications, 2021, 3, fcab177.	3.3	2
62	Synthesis of [18F]Fluoromisonidazole (1-(2-Hydroxy-3-[18F]Fluoropropyl)-2-Nitroimidazole, [18F]FMISO). , 0, , 41-49.		1
63	226â€¦. Reduced synaptic density in progressive supranuclear palsy and corticobasal syndrome, revealed by [11C]UCB-J PET. Journal of Neurology, Neurosurgery and Psychiatry, 2022, 93, A78.3-A78.	1.9	1
64	Chemistry of Nitrogen-13 and Oxygen-15. , 2005, , 119-140.		0
65	[18F]-AV-1451: ESTABLISHMENT OF A PET RADIOTRACER NETWORK FOR DEMENTIA RESEARCH. Alzheimer's and Dementia, 2017, 13, P117.	0.8	0