

# Allen F Brooks

## List of Publications by Year in descending order

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58  
papers

1,929  
citations

304743

22  
h-index

265206

42  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Late-stage [ <sup>18</sup> F]fluorination: new solutions to old problems. <i>Chemical Science</i> , 2014, 5, 4545-4553.	7.4	266
2	Synthesis of [ <sup>18</sup> F]Arenes via the Copper-Mediated [ <sup>18</sup> F]Fluorination of Boronic Acids. <i>Organic Letters</i> , 2015, 17, 5780-5783.	4.6	199
3	Copper-Catalyzed [ <sup>18</sup> F]Fluorination of (Mesityl)(aryl)iodonium Salts. <i>Organic Letters</i> , 2014, 16, 3224-3227.	4.6	197
4	Copper-Mediated Radiofluorination of Arylstannanes with [ <sup>18</sup> F]KF. <i>Organic Letters</i> , 2016, 18, 5440-5443.	4.6	151
5	Cu-Mediated C-H [ <sup>18</sup> F]-Fluorination of Electron-Rich (Hetero)arenes. <i>Organic Letters</i> , 2017, 19, 3939-3942.	4.6	87
6	High Affinity Radiopharmaceuticals Based Upon Lansoprazole for PET Imaging of Aggregated Tau in Alzheimer's Disease and Progressive Supranuclear Palsy: Synthesis, Preclinical Evaluation, and Lead Selection. <i>ACS Chemical Neuroscience</i> , 2014, 5, 718-730.	3.5	77
7	Evaluation of [ <sup>11</sup> C]N-Methyl Lansoprazole as a Radiopharmaceutical for PET Imaging of Tau Neurofibrillary Tangles. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 936-941.	2.8	52
8	Development of Customized [ <sup>18</sup> F]Fluoride Elution Techniques for the Enhancement of Copper-Mediated Late-Stage Radiofluorination. <i>Scientific Reports</i> , 2017, 7, 233.	3.3	51
9	Copper-mediated late-stage radiofluorination: five years of impact on preclinical and clinical PET imaging. <i>Clinical and Translational Imaging</i> , 2020, 8, 167-206.	2.1	44
10	On the consensus nomenclature rules for radiopharmaceutical chemistry – Reconsideration of radiochemical conversion. <i>Nuclear Medicine and Biology</i> , 2021, 93, 19-21.	0.6	43
11	Classics in Neuroimaging: Development of PET Tracers for Imaging Monoamine Oxidases. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1867-1871.	3.5	42
12	Copper-Mediated Aminoquinoline-Directed Radiofluorination of Aromatic C-H Bonds with K <sup>18</sup> F. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3119-3122.	13.8	40
13	Synthesis of Diverse <sup>11</sup> C-Labeled PET Radiotracers via Direct Incorporation of [ <sup>11</sup> C]CO <sub>2</sub> . <i>Bioconjugate Chemistry</i> , 2016, 27, 1382-1389.	3.6	38
14	Identification of AV-1451 as a Weak, Nonselective Inhibitor of Monoamine Oxidase. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3839-3846.	3.5	37
15	One-pot synthesis of high molar activity 6-[ <sup>18</sup> F]fluoro-l-DOPA by Cu-mediated fluorination of a BPin precursor. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8701-8705.	2.8	37
16	Automated synthesis of PET radiotracers by copper-mediated [ <sup>18</sup> F]fluorination of organoborons: Importance of the order of addition and competing protodeborylation. <i>Journal of Labeled Compounds and Radiopharmaceuticals</i> , 2018, 61, 228-236.	1.0	36
17	Copper(II)-Mediated [ <sup>11</sup> C]Cyanation of Arylboronic Acids and Arylstannanes. <i>Organic Letters</i> , 2018, 20, 1530-1533.	4.6	35
18	NHC-Copper Mediated Ligand-Directed Radiofluorination of Aryl Halides. <i>Journal of the American Chemical Society</i> , 2020, 142, 7362-7367.	13.7	33

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19	Synthesis and Evaluation of [ <sup>18</sup> F]RAGER: A First Generation Small-Molecule PET Radioligand Targeting the Receptor for Advanced Glycation Endproducts. ACS Chemical Neuroscience, 2016, 7, 391-398.	3.5	32
20	A fully-automated one-pot synthesis of [18F]fluoromethylcholine with reduced dimethylaminoethanol contamination via [18F]fluoromethyl tosylate. Applied Radiation and Isotopes, 2013, 78, 26-32.	1.5	27
21	Synthesis of high-molar-activity [18F]6-fluoro-L-DOPA suitable for human use via Cu-mediated fluorination of a BPin precursor. Nature Protocols, 2020, 15, 1742-1759.	12.0	26
22	Evolution of eukaryal tRNA-guanine transglycosylase: insight gained from the heterocyclic substrate recognition by the wild-type and mutant human and Escherichia coli tRNA-guanine transglycosylases. Nucleic Acids Research, 2011, 39, 2834-2844.	14.5	25
23	C <sup>18</sup> F-fluorination of 8-methylquinolines with Ag[ <sup>18</sup> F]F. Chemical Communications, 2019, 55, 2976-2979.	4.1	20
24	Evaluation of [ <sup>18</sup> F]-N-Methyl lansoprazole as a Tau PET Imaging Agent in First-in-Human Studies. ACS Chemical Neuroscience, 2020, 11, 427-435.	3.5	20
25	Sequential Ir/Cu-Mediated Method for the <i>Meta</i> -Selective C <sup>18</sup> H Radiofluorination of (Hetero)Arenes. Journal of the American Chemical Society, 2021, 143, 6915-6921.	13.7	18
26	A short, concise synthesis of queuine. Tetrahedron Letters, 2010, 51, 4163-4165.	1.4	15
27	Deuterium Kinetic Isotope Effect Studies of a Potential in Vivo Metabolic Trapping Agent for Monoamine Oxidase B. ACS Chemical Neuroscience, 2018, 9, 3024-3027.	3.5	15
28	Synthesis and evaluation of [ <sup>11</sup> C]PBD150, a radiolabeled glutaminyl cyclase inhibitor for the potential detection of Alzheimer's disease prior to amyloid $\beta^2$ aggregation. MedChemComm, 2015, 6, 1065-1068.	3.4	14
29	<i>In Vivo</i> Metabolic Trapping Radiotracers for Imaging Monoamine Oxidase-A and -B Enzymatic Activity. ACS Chemical Neuroscience, 2015, 6, 1965-1971.	3.5	14
30	An updated radiosynthesis of [18F]AV1451 for tau PET imaging. EJNMMI Radiopharmacy and Chemistry, 2017, 2, 7.	3.9	14
31	Fluorine-18 patents (2009-2015). Part 2: new radiochemistry. Pharmaceutical Patent Analyst, 2016, 5, 319-349.	1.1	13
32	Fluorine-18 patents (2009-2015). Part 1: novel radiotracers. Pharmaceutical Patent Analyst, 2016, 5, 17-47.	1.1	12
33	Radiosynthesis of [ <sup>11</sup> C]LY2795050 for Preclinical and Clinical PET Imaging Using Cu(II)-Mediated Cyanation. ACS Medicinal Chemistry Letters, 2018, 9, 1274-1279.	2.8	12
34	Gallium-68: methodology and novel radiotracers for positron emission tomography (2012-2017). Pharmaceutical Patent Analyst, 2018, 7, 193-227.	1.1	12
35	Development and implementation of ISAR, a new synthesis platform for radiopharmaceutical production. EJNMMI Radiopharmacy and Chemistry, 2019, 4, 24.	3.9	12
36	Use of 55 PET radiotracers under approval of a Radioactive Drug Research Committee (RDRC). EJNMMI Radiopharmacy and Chemistry, 2020, 5, 24.	3.9	12

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37	Targeting Metal-Al <sup>2+</sup> Aggregates with Bifunctional Radioligand [ <sup>11</sup> C]L2-b and a Fluorine-18 Analogue [ <sup>18</sup> F]FL2-b. ACS Medicinal Chemistry Letters, 2015, 6, 112-116.	2.8	11
38	Ring opening of epoxides with [ <sup>18</sup> F]FeF species to produce [ <sup>18</sup> F]fluorohydrin PET imaging agents. Chemical Communications, 2019, 55, 6361-6364.	4.1	11
39	Strategies for PET imaging of the receptor for advanced glycation endproducts (RAGE). Journal of Pharmaceutical Analysis, 2020, 10, 452-465.	5.3	11
40	Preclinical evaluation of (S)-[ <sup>18</sup> F]GE387, a novel 18-kDa translocator protein (TSPO) PET radioligand with low binding sensitivity to human polymorphism rs6971. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 49, 125-136.	6.4	11
41	Synthesis of [ <sup>18</sup> F]- <sup>13</sup> C-Fluoro- <sup>1,2</sup> -unsaturated Esters and Ketones via Vinylogous <sup>18</sup> F-Fluorination of <sup>1,2</sup> -Diazoacetates with [ <sup>18</sup> F]AgF. Synthesis, 2019, 51, 4401-4407.	2.3	10
42	Y-90 SPECT ML image reconstruction with a new model for tissue-dependent bremsstrahlung production using CT information: a proof-of-concept study. Physics in Medicine and Biology, 2018, 63, 115001.	3.0	9
43	Copper-Mediated Aminoquinoline-Directed Radiofluorination of Aromatic C-H Bonds with K <sup>18</sup> F. Angewandte Chemie, 2019, 131, 3151-3154.	2.0	9
44	Classics in Neuroimaging: Development of Positron Emission Tomography Tracers for Imaging the GABAergic Pathway. ACS Chemical Neuroscience, 2020, 11, 2039-2044.	3.5	9
45	S <sub>N</sub> Ar Radiofluorination with In Situ Generated [ <sup>18</sup> F]Tetramethylammonium Fluoride. Journal of Organic Chemistry, 2021, 86, 14121-14130.	3.2	9
46	High-Yielding Automated Convergent Synthesis of No-Carrier-Added [ <sup>11</sup> C-Carbonyl]-Labeled Amino Acids Using the Strecker Reaction. Synlett, 2017, 28, 371-375.	1.8	8
47	Development of Positron Emission Tomography Radiotracers for the GABA Transporter 1. ACS Chemical Neuroscience, 2018, 9, 2767-2773.	3.5	8
48	A spot test for determination of residual TBA levels in <sup>18</sup> F-radiotracers for human use using Dragendorff reagent. Analytical Methods, 2020, 12, 5004-5009.	2.7	8
49	Investigating the prevalence of queuine in Escherichia coli RNA via incorporation of the tritium-labeled precursor, preQ1. Biochemical and Biophysical Research Communications, 2012, 425, 83-88.	2.1	7
50	Synthesis and Evaluation of a Fluorine-18 Radioligand for Imaging Huntingtin Aggregates by Positron Emission Tomographic Imaging. Frontiers in Neuroscience, 2021, 15, 766176.	2.8	7
51	Fully Automated Radiosynthesis of [ <sup>11</sup> C]Guanidines for Cardiac PET Imaging. ACS Medicinal Chemistry Letters, 2020, 11, 2325-2330.	2.8	4
52	Radiosynthesis and <i>In Vivo</i> Evaluation of Four Positron Emission Tomography Tracer Candidates for Imaging of Melatonin Receptors. ACS Chemical Neuroscience, 2022, 13, 1382-1394.	3.5	4
53	Evaluation of Enzyme Substrate Radiotracers as PET/MRS Hybrid Imaging Agents. ACS Medicinal Chemistry Letters, 2018, 9, 1140-1143.	2.8	3
54	Improved Synthesis of [ <sup>11</sup> C]COU and [ <sup>11</sup> C]PHXY, Evaluation of Neurotoxicity, and Imaging of MAOs in Rodent Heart. ACS Medicinal Chemistry Letters, 2020, 11, 2300-2304.	2.8	2

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55	An updated synthesis of N 1 $\text{[}^{11}\text{C]methyl}$ naltrindole for positron emission tomography imaging of the delta opioid receptor. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2021, 64, 187-193.	1.0	2
56	Synthesis and Evaluation of $^{11}\text{C}$ - and $^{18}\text{F}$ -Labeled SOAT1 Inhibitors as Macrophage Foam Cell Imaging Agents. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1299-1304.	2.8	1
57	Synthesis of azide congeners of preQ 1 as potential substrates for tRNA guanine transglycosylase. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 1192-1198.	2.6	1
58	PET imaging of metastatic paraganglioma using novel 3- $^{18}\text{F}$ fluoro-para-hydroxyphenethylguanidine (3- $^{18}\text{F}$ pHPC) radiotracer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, , 1.	6.4	0