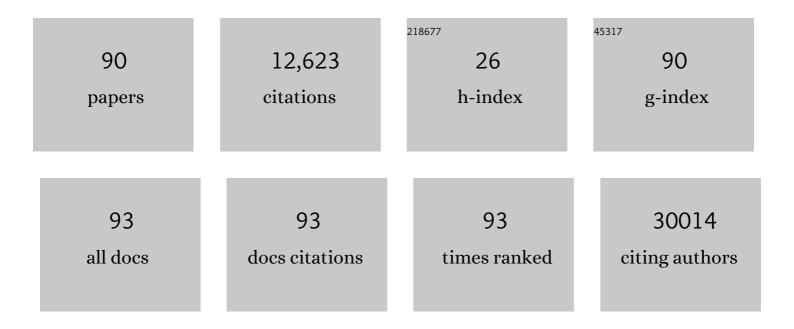
## Frank Wuest

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In situ click chemistry generation of cyclooxygenase-2 inhibitors. Nature Communications, 2017, 8, 1.	12.8	10,736
2	18F-Labeled Peptides: The Future Is Bright. Molecules, 2014, 19, 20536-20556.	3.8	108
3	Targeted Alpha Therapy: Progress in Radionuclide Production, Radiochemistry, and Applications. Pharmaceutics, 2021, 13, 49.	4.5	83
4	Synthesis and evaluation of 1,5-diaryl-substituted tetrazoles as novel selective cyclooxygenase-2 (COX-2) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1823-1826.	2.2	76
5	Automated synthesis of [18F]DCFPyL via direct radiofluorination and validation in preclinical prostate cancer models. EJNMMI Research, 2016, 6, 40.	2.5	71
6	Copper-free click chemistry with the short-lived positron emitter fluorine-18. Organic and Biomolecular Chemistry, 2011, 9, 7393.	2.8	61
7	Expression and function of hexose transporters GLUT1, GLUT2, and GLUT5 in breast cancer—effects of hypoxia. FASEB Journal, 2018, 32, 5104-5118.	0.5	56
8	Synthesis and cyclooxygenase inhibition of various (aryl-1,2,3-triazole-1-yl)-methanesulfonylphenyl derivatives. Bioorganic and Medicinal Chemistry, 2009, 17, 1146-1151.	3.0	48
9	Synthesis and evaluation in vitro and in vivo of a 11C-labeled cyclooxygenase-2 (COX-2) inhibitor. Bioorganic and Medicinal Chemistry, 2008, 16, 7662-7670.	3.0	47
10	Radiolabelling of proteins with fluorine-18 via click chemistry. Chemical Communications, 2009, , 7521.	4.1	46
11	The traceless Staudinger ligation with fluorine-18: a novel and versatile labeling technique for the synthesis of PET-radiotracers. Tetrahedron Letters, 2010, 51, 6410-6414.	1.4	46
12	Direct labelling of peptides with 2-[18F]fluoro-2-deoxy-d-glucose ([18F]FDG). Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5426-5428.	2.2	42
13	Taking cyclotron 68Ga production to the next level: Expeditious solid target production of 68Ga for preparation of radiotracers. Nuclear Medicine and Biology, 2020, 80-81, 24-31.	0.6	42
14	Hybrid fluorescent conjugates of COX-2 inhibitors: Search for a COX-2 isozyme imaging cancer biomarker. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 163-168.	2.2	37
15	Fluorophore‣abeled Cyclooxygenaseâ€2 Inhibitors for the Imaging of Cyclooxygenaseâ€2 Overexpression in Cancer: Synthesis and Biological Studies. ChemMedChem, 2014, 9, 109-116.	3.2	36
16	Targeting lysyl oxidase for molecular imaging in breast cancer. Breast Cancer Research, 2015, 17, 107.	5.0	36
17	Implications for breast cancer treatment from increased autotaxin production in adipose tissue after radiotherapy. FASEB Journal, 2017, 31, 4064-4077.	0.5	35
18	Genetically Encoded Fragment-Based Discovery from Phage-Displayed Macrocyclic Libraries with Genetically Encoded Unnatural Pharmacophores. Journal of the American Chemical Society, 2021, 143, 5497-5507.	13.7	35

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19	PET imaging of cyclooxygenase-2 (COX-2) in a pre-clinical colorectal cancer model. EJNMMI Research, 2016, 6, 37.	2.5	33
20	Molecular Imaging of GLUT1 and GLUT5 in Breast Cancer: A Multitracer Positron Emission Tomography Imaging Study in Mice. Molecular Pharmacology, 2018, 93, 79-89.	2.3	33
21	Synthesis and radiopharmacological evaluation of a high-affinity and metabolically stabilized 18F-labeled bombesin analogue for molecular imaging of gastrin-releasing peptide receptor-expressing prostate cancer. Nuclear Medicine and Biology, 2013, 40, 1025-1034.	0.6	32
22	Targeting phosphatidylserine for radionuclide-based molecular imaging of apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2019, 24, 221-244.	4.9	32
23	Synthesis of three 18F-labelled cyclooxygenase-2 (COX-2) inhibitors based on a pyrimidine scaffold. Organic and Biomolecular Chemistry, 2013, 11, 8052.	2.8	28
24	Synthesis and evaluation of an 18F-labelled norbornene derivative for copper-free click chemistry reactions. Organic and Biomolecular Chemistry, 2013, 11, 3817.	2.8	28
25	Design, Synthesis, and Evaluation of an <sup>18</sup> Fâ€Labeled Radiotracer Based on Celecoxib–NBD for Positron Emission Tomography (PET) Imaging of Cyclooxygenaseâ€2 (COXâ€2). ChemMedChem, 2015, 10, 1635-1640.	3.2	27
26	Diaryl-Substituted (Dihydro)pyrrolo[3,2,1- <i>hi</i> ]indoles, a Class of Potent COX-2 Inhibitors with Tricyclic Core Structure. Journal of Organic Chemistry, 2015, 80, 5611-5624.	3.2	27
27	Synthesis and Analysis of <sup>64</sup> Cu-Labeled GE11-Modified Polymeric Micellar Nanoparticles for EGFR-Targeted Molecular Imaging in a Colorectal Cancer Model. Molecular Pharmaceutics, 2020, 17, 1470-1481.	4.6	27
28	Radiolabeling of phosphatidylserine-binding peptides with prosthetic groups N-[6-(4-[18F]fluorobenzylidene)aminooxyhexyl]maleimide ([18F]FBAM) and N-succinimidyl-4-[18F]fluorobenzoate ([18F]SFB). Applied Radiation and Isotopes, 2011, 69, 1218-1225.	1.5	26
29	Microfluidic technology: An economical and versatile approach for the synthesis of O-(2-[18F]fluoroethyl)-l-tyrosine ([18F]FET). Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2291-2295.	2.2	26
30	2,3-Diaryl-substituted indole based COX-2 inhibitors as leads for imaging tracer development. RSC Advances, 2014, 4, 38726-38742.	3.6	24
31	Targeting Prostate-Specific Membrane Antigen (PSMA) with F-18-Labeled Compounds: the Influence of Prosthetic Groups on Tumor Uptake and Clearance Profile. Molecular Imaging and Biology, 2017, 19, 923-932.	2.6	24
32	Technetium-99m based small molecule radiopharmaceuticals and radiotracers targeting inflammation and infection. Dalton Transactions, 2017, 46, 14435-14451.	3.3	23
33	Sonogashira cross-coupling reaction with 4-[ <sup>18</sup> F]fluoroiodobenzene for rapid <sup>18</sup> F-labelling of peptides. Chemical Communications, 2015, 51, 3838-3841.	4.1	22
34	4-[18F]Fluoro-N-methyl-N-(propyl-2-yn-1-yl)benzenesulfonamide ([18F]F-SA): a versatile building block for labeling of peptides, proteins and oligonucleotides with fluorine-18 via Cu(l)-mediated click chemistry. Amino Acids, 2013, 44, 1167-1180.	2.7	21
35	Positron emission tomography radiotracers for imaging hypoxia. Journal of Labelled Compounds and Radiopharmaceuticals, 2013, 56, 244-250.	1.0	21
36	Targeting Phosphatidylserine with a <sup>64</sup> Cu-Labeled Peptide for Molecular Imaging of Apoptosis. Molecular Pharmaceutics, 2016, 13, 3564-3577.	4.6	21

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37	Metabolically Stabilized <sup>68</sup> Ga-NOTA-Bombesin for PET Imaging of Prostate Cancer and Influence of Protease Inhibitor Phosphoramidon. Molecular Pharmaceutics, 2016, 13, 1347-1357.	4.6	21
38	High yield cyclotron production of a novel 133/135La theranostic pair for nuclear medicine. Scientific Reports, 2020, 10, 22203.	3.3	21
39	Radiopharmacological evaluation of 18F-labeled phosphatidylserine-binding peptides for molecular imaging of apoptosis. Nuclear Medicine and Biology, 2015, 42, 864-874.	0.6	20
40	Radiometal-Containing Aryl Diazonium Salts for Chemoselective Bioconjugation of Tyrosine Residues. ACS Omega, 2019, 4, 22101-22107.	3.5	20
41	Immuno-PET of epithelial ovarian cancer: harnessing the potential of CA125 for non-invasive imaging. EJNMMI Research, 2014, 4, 60.	2.5	19
42	Development of subnanomolar radiofluorinated (2-pyrrolidin-1-yl)imidazo[1,2-b]pyridazine pan-Trk inhibitors as candidate PET imaging probes. MedChemComm, 2015, 6, 2184-2193.	3.4	19
43	Structure–activity relationship of novel series of 1,5-disubstituted tetrazoles as cyclooxygenase-2 inhibitors: Design, synthesis, bioassay screening and molecular docking studies. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4757-4762.	2.2	19
44	Comparison of scandium-44 g with other PET radionuclides in pre-clinical PET phantom imaging. EJNMMI Physics, 2019, 6, 23.	2.7	19
45	<sup>18</sup> F-Radiolabeling and <i>In Vivo</i> Analysis of SiFA-Derivatized Polymeric Core–Shell Nanoparticles. Bioconjugate Chemistry, 2018, 29, 89-95.	3.6	18
46	Synthesis, bioassay studies, and molecular docking of novel 5-substituted 1H tetrazoles as cyclooxygenase-2 (COX-2) inhibitors. Medicinal Chemistry Research, 2015, 24, 78-85.	2.4	17
47	Advances in [18F]Trifluoromethylation Chemistry for PET Imaging. Molecules, 2021, 26, 6478.	3.8	17
48	Fully automated synthesis of 4-[18F]fluorobenzylamine based on borohydride/NiCl2 reduction. Nuclear Medicine and Biology, 2013, 40, 430-436.	0.6	16
49	Fluorescent Hexose Conjugates Establish Stringent Stereochemical Requirement by GLUT5 for Recognition and Transport of Monosaccharides. ACS Chemical Biology, 2017, 12, 1087-1094.	3.4	16
50	First InÂVivo and Phantom Imaging of Cyclotron-Produced <sup>133</sup> La as a Theranostic Radionuclide for <sup>225</sup> Ac and <sup>135</sup> La. Journal of Nuclear Medicine, 2022, 63, 584-590.	5.0	16
51	Synthesis and evaluation of fluorobenzoylated di- and tripeptides as inhibitors of cyclooxygenase-2 (COX-2). Bioorganic and Medicinal Chemistry, 2012, 20, 2221-2226.	3.0	15
52	Radiosynthesis and Biological Evaluation of [ <sup>18</sup> F]Triacoxib: A New Radiotracer for PET Imaging of COX-2. Molecular Pharmaceutics, 2020, 17, 251-261.	4.6	15
53	1,4-Diaryl-substituted triazoles as cyclooxygenase-2 inhibitors: Synthesis, biological evaluation and molecular modeling studies. Bioorganic and Medicinal Chemistry, 2013, 21, 4288-4295.	3.0	14
54	Automated radiosynthesis of noâ€carrierâ€added 4â€[ <sup>18</sup> F]fluoroiodobenzene: a versatile building block in <sup>18</sup> F radiochemistry. Journal of Labelled Compounds and Radiopharmaceuticals, 2014, 57, 104-109.	1.0	14

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55	Fluorine- and rhenium-containing geldanamycin derivatives as leads for the development of molecular probes for imaging Hsp90. Organic and Biomolecular Chemistry, 2012, 10, 6724.	2.8	12
56	Molecular imaging of platelet-derived growth factor receptor-alpha (PDGFRα) in papillary thyroid cancer using immuno-PET. Nuclear Medicine and Biology, 2018, 58, 51-58.	0.6	12
57	A comparative PET imaging study of 44gSc- and 68Ga-labeled bombesin antagonist BBN2 derivatives in breast and prostate cancer models. Nuclear Medicine and Biology, 2020, 90-91, 74-83.	0.6	12
58	18F-Labeled wild-type annexin V: comparison of random and site-selective radiolabeling methods. Amino Acids, 2016, 48, 65-74.	2.7	11
59	Synthesis and evaluation of 2-amino-5-(4-[18F]fluorophenyl)pent-4-ynoic acid ([18F]FPhPA): A novel 18F-labeled amino acid for oncologic PET imaging. Nuclear Medicine and Biology, 2014, 41, 660-669.	0.6	10
60	Intranasal antiâ€caspaseâ€1 therapy preserves myelin and glucose metabolism in a model of progressive multiple sclerosis. Glia, 2021, 69, 216-229.	4.9	10
61	Radiolanthanum: Promising theranostic radionuclides for PET, alpha, and Auger-Meitner therapy. Nuclear Medicine and Biology, 2022, 110-111, 59-66.	0.6	10
62	Application of [18F]FDG in radiolabeling reactions using microfluidic technology. Lab on A Chip, 2013, 13, 4290.	6.0	8
63	Design and synthesis of [ 125 I]Pyricoxib: A novel 125 I-labeled cyclooxygenase-2 (COX-2) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1516-1520.	2.2	7
64	Impact of structural alterations on the radiopharmacological profile of 18F-labeled pyrimidines as cyclooxygenase-2 (COX-2) imaging agents. Nuclear Medicine and Biology, 2018, 62-63, 9-17.	0.6	7
65	Design, synthesis, and evaluation of positron emission tomography/fluorescence dual imaging probes for targeting facilitated glucose transporter 1 (GLUT1). Organic and Biomolecular Chemistry, 2021, 19, 3241-3254.	2.8	7
66	PET Imaging of I-Type Amino Acid Transporter (LAT1) and Cystine-Glutamate Antiporter (xcâ^') with [18F]FDOPA and [18F]FSPG in Breast Cancer Models. Molecular Imaging and Biology, 2020, 22, 1562-1571.	2.6	6
67	Synthesis and Preclinical Evaluation of [ <sup>18</sup> F]SiFA-PSMA Inhibitors in a Prostate Cancer Model. Journal of Medicinal Chemistry, 2021, 64, 15671-15689.	6.4	6
68	Phosphopeptides with improved cellular uptake properties as ligands for the polo-box domain of polo-like kinase 1. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4686-4689.	2.2	5
69	Effect of hypoxia on human equilibrative nucleoside transporters hENT1 and hENT2 in breast cancer. FASEB Journal, 2019, 33, 13837-13851.	0.5	5
70	Development of Fluorescence Imaging Probes for Labeling COX-1 in Live Ovarian Cancer Cells. ACS Medicinal Chemistry Letters, 2021, 12, 798-804.	2.8	5
71	Identify. Quantify. Predict. Why Immunologists Should Widely Use Molecular Imaging for Coronavirus Disease 2019. Frontiers in Immunology, 2021, 12, 568959.	4.8	5
72	Automated synthesis and dosimetry of 6-deoxy-6-[(18)F]fluoro-D-fructose (6-[(18)F]FDF): a radiotracer for imaging of GLUT5 in breast cancer. American Journal of Nuclear Medicine and Molecular Imaging, 2014, 4, 248-59.	1.0	5

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73	Dual Probes for Positron Emission Tomography (PET) and Fluorescence Imaging (FI) of Cancer. Pharmaceutics, 2022, 14, 645.	4.5	5
74	Sulfo-click chemistry with <sup>18</sup> F-labeled thio acids. Chemical Communications, 2019, 55, 1310-1313.	4.1	4
75	In Cellulo Generation of Fluorescent Probes for Liveâ€Cell Imaging of Cylooxygenaseâ€2. Chemistry - A European Journal, 2021, 27, 3326-3337.	3.3	4
76	Synthesis and Biological Evaluation of 1,3,5â€Trisubstituted 2â€Pyrazolines as Novel Cyclooxygenaseâ€2 Inhibitors with Antiproliferative Activity. Chemistry and Biodiversity, 2021, 18, e2000832.	2.1	4
77	Tyrosine kinase inhibitor therapy and metabolic remodelling in papillary thyroid cancer. Endocrine-Related Cancer, 2020, 27, 495-507.	3.1	4
78	Towards Selective Binding to the GLUT5 Transporter: Synthesis, Molecular Dynamics and In Vitro Evaluation of Novel C-3-Modified 2,5-Anhydro-D-mannitol Analogs. Pharmaceutics, 2022, 14, 828.	4.5	4
79	Synthesis, complex stability and small animal PET imaging of a novel 64Cu-labelled cryptand molecule. MedChemComm, 2014, 5, 958-962.	3.4	3
80	Unexpected formation of 1-[4-chloromethylphenyl]-5-[4-(methylsulfonyl)benzyl]-1 H -tetrazole and 1-[4-chloromethylphenyl]-5-[4-(aminosulfonyl)phenyl]-1 H -tetrazole: Crystal structure, bioassay screening and molecular docking studies. Journal of Molecular Structure, 2018, 1164, 317-327.	3.6	3
81	FOXM1 inhibitors as potential diagnostic agents: 1st generation of a PET probe targeting FOXM1 to detect triple negativeâ€breast cancer in vitro and in vivo. ChemMedChem, 2021, 16, 3720.	3.2	3
82	Synthesis of an <sup>18</sup> Fâ€labeled cyclinâ€dependent kinaseâ€2 inhibitor. Journal of Labelled Compounds and Radiopharmaceuticals, 2011, 54, 769-774.	1.0	2
83	Synthesis of 2-Fluoroacetoacetic Acid and 4-Fluoro-3-hydroxyÂbutyric Acid. Synthesis, 2019, 51, 2351-2358.	2.3	2
84	Synthesis and <i>in vivo</i> evaluation of a radiofluorinated ketone body derivative. RSC Medicinal Chemistry, 2020, 11, 297-306.	3.9	2
85	<sup>18</sup> F-Labeling of Radiotracers Functionalized with a Silicon Fluoride Acceptor (SiFA) for Positron Emission Tomography. Journal of Visualized Experiments, 2020, , .	0.3	2
86	Positron Emission Tomography Imaging of Autotaxin in Thyroid and Breast Cancer Models Using [ <sup>18</sup> F]PRIMATX. Molecular Pharmaceutics, 2021, 18, 3352-3364.	4.6	2
87	Synthesis and structural identification of fluorine-18 labeled parathyroid hormone. Journal of Labelled Compounds and Radiopharmaceuticals, 2015, 58, 453-457.	1.0	1
88	On the Viability of Tadalafil-Based 18F-Radiotracers for In Vivo Phosphodiesterase 5 (PDE5) PET Imaging. ACS Omega, 2021, 6, 21741-21754.	3.5	1
89	Fluorine-18 Labelled Radioligands for PET Imaging of Cyclooxygenase-2. Molecules, 2022, 27, 3722.	3.8	1
90	Synthesis, binding affinity analysis, and 18Fâ€radiosynthesis of small molecular weight HIFâ€1α binding compounds ChemMedChem, 2021, , .	3.2	0