## Frank Wuest

List of Publications by Year in descending order

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FDANK WHIEST

#	Article	IF	CITATIONS
1	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.	2.8	16
2	Dual Probes for Positron Emission Tomography (PET) and Fluorescence Imaging (FI) of Cancer. Pharmaceutics, 2022, 14, 645.	2.0	5
3	Radiolanthanum: Promising theranostic radionuclides for PET, alpha, and Auger-Meitner therapy. Nuclear Medicine and Biology, 2022, 110-111, 59-66.	0.3	10
4	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.	2.0	4
5	Fluorine-18 Labelled Radioligands for PET Imaging of Cyclooxygenase-2. Molecules, 2022, 27, 3722.	1.7	1
6	In Cellulo Generation of Fluorescent Probes for Liveâ€Cell Imaging of Cylooxygenaseâ€2. Chemistry - A European Journal, 2021, 27, 3326-3337.	1.7	4
7	Intranasal antiâ€caspaseâ€1 therapy preserves myelin and glucose metabolism in a model of progressive multiple sclerosis. Glia, 2021, 69, 216-229.	2.5	10
8	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.	1.5	7
9	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.	1.0	4
10	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.	6.6	35
11	Development of Fluorescence Imaging Probes for Labeling COX-1 in Live Ovarian Cancer Cells. ACS Medicinal Chemistry Letters, 2021, 12, 798-804.	1.3	5
12	ldentify. Quantify. Predict. Why Immunologists Should Widely Use Molecular Imaging for Coronavirus Disease 2019. Frontiers in Immunology, 2021, 12, 568959.	2.2	5
13	Positron Emission Tomography Imaging of Autotaxin in Thyroid and Breast Cancer Models Using [ <sup>18</sup> F]PRIMATX. Molecular Pharmaceutics, 2021, 18, 3352-3364.	2.3	2
14	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.	1.6	3
15	On the Viability of Tadalafil-Based 18F-Radiotracers for In Vivo Phosphodiesterase 5 (PDE5) PET Imaging. ACS Omega, 2021, 6, 21741-21754.	1.6	1
16	Synthesis, binding affinity analysis, and 18Fâ€radiosynthesis of small molecular weight HIFâ€1α binding compounds ChemMedChem, 2021, , .	1.6	0
17	Targeted Alpha Therapy: Progress in Radionuclide Production, Radiochemistry, and Applications. Pharmaceutics, 2021, 13, 49.	2.0	83
18	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.	2.9	6

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19	Advances in [18F]Trifluoromethylation Chemistry for PET Imaging. Molecules, 2021, 26, 6478.	1.7	17
20	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.	2.3	15
21	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.	1.3	6
22	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.	0.3	12
23	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.	2.3	27
24	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.	0.3	42
25	Synthesis and <i>in vivo</i> evaluation of a radiofluorinated ketone body derivative. RSC Medicinal Chemistry, 2020, 11, 297-306.	1.7	2
26	<sup>18</sup> F-Labeling of Radiotracers Functionalized with a Silicon Fluoride Acceptor (SiFA) for Positron Emission Tomography. Journal of Visualized Experiments, 2020, , .	0.2	2
27	High yield cyclotron production of a novel 133/135La theranostic pair for nuclear medicine. Scientific Reports, 2020, 10, 22203.	1.6	21
28	Tyrosine kinase inhibitor therapy and metabolic remodelling in papillary thyroid cancer. Endocrine-Related Cancer, 2020, 27, 495-507.	1.6	4
29	Effect of hypoxia on human equilibrative nucleoside transporters hENT1 and hENT2 in breast cancer. FASEB Journal, 2019, 33, 13837-13851.	0.2	5
30	Sulfo-click chemistry with <sup>18</sup> F-labeled thio acids. Chemical Communications, 2019, 55, 1310-1313.	2.2	4
31	Targeting phosphatidylserine for radionuclide-based molecular imaging of apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2019, 24, 221-244.	2.2	32
32	Synthesis of 2-Fluoroacetoacetic Acid and 4-Fluoro-3-hydroxyÂbutyric Acid. Synthesis, 2019, 51, 2351-2358.	1.2	2
33	Radiometal-Containing Aryl Diazonium Salts for Chemoselective Bioconjugation of Tyrosine Residues. ACS Omega, 2019, 4, 22101-22107.	1.6	20
34	Comparison of scandium-44 g with other PET radionuclides in pre-clinical PET phantom imaging. EJNMMI Physics, 2019, 6, 23.	1.3	19
35	<sup>18</sup> F-Radiolabeling and <i>In Vivo</i> Analysis of SiFA-Derivatized Polymeric Core–Shell Nanoparticles. Bioconjugate Chemistry, 2018, 29, 89-95.	1.8	18
36	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.	0.3	12

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37	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.	1.8	3
38	Molecular Imaging of GLUT1 and GLUT5 in Breast Cancer: A Multitracer Positron Emission Tomography Imaging Study in Mice. Molecular Pharmacology, 2018, 93, 79-89.	1.0	33
39	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.	0.3	7
40	Expression and function of hexose transporters GLUT1, GLUT2, and GLUT5 in breast cancer—effects of hypoxia. FASEB Journal, 2018, 32, 5104-5118.	0.2	56
41	Fluorescent Hexose Conjugates Establish Stringent Stereochemical Requirement by GLUT5 for Recognition and Transport of Monosaccharides. ACS Chemical Biology, 2017, 12, 1087-1094.	1.6	16
42	Implications for breast cancer treatment from increased autotaxin production in adipose tissue after radiotherapy. FASEB Journal, 2017, 31, 4064-4077.	0.2	35
43	In situ click chemistry generation of cyclooxygenase-2 inhibitors. Nature Communications, 2017, 8, 1.	5.8	10,736
44	Technetium-99m based small molecule radiopharmaceuticals and radiotracers targeting inflammation and infection. Dalton Transactions, 2017, 46, 14435-14451.	1.6	23
45	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.	1.3	24
46	Automated synthesis of [18F]DCFPyL via direct radiofluorination and validation in preclinical prostate cancer models. EJNMMI Research, 2016, 6, 40.	1.1	71
47	Targeting Phosphatidylserine with a <sup>64</sup> Cu-Labeled Peptide for Molecular Imaging of Apoptosis. Molecular Pharmaceutics, 2016, 13, 3564-3577.	2.3	21
48	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.	1.0	19
49	PET imaging of cyclooxygenase-2 (COX-2) in a pre-clinical colorectal cancer model. EJNMMI Research, 2016, 6, 37.	1.1	33
50	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.	2.3	21
51	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.	1.0	7
52	18F-Labeled wild-type annexin V: comparison of random and site-selective radiolabeling methods. Amino Acids, 2016, 48, 65-74.	1.2	11
53	Synthesis and structural identification of fluorine-18 labeled parathyroid hormone. Journal of Labelled Compounds and Radiopharmaceuticals, 2015, 58, 453-457.	0.5	1
54	Targeting lysyl oxidase for molecular imaging in breast cancer. Breast Cancer Research, 2015, 17, 107.	2.2	36

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55	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.	1.6	27
56	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.	3.5	19
57	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.	2.2	22
58	Radiopharmacological evaluation of 18F-labeled phosphatidylserine-binding peptides for molecular imaging of apoptosis. Nuclear Medicine and Biology, 2015, 42, 864-874.	0.3	20
59	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.	1.7	27
60	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.	1.1	17
61	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.	0.5	14
62	Fluorophore‣abeled Cyclooxygenaseâ€2 Inhibitors for the Imaging of Cyclooxygenaseâ€2 Overexpression in Cancer: Synthesis and Biological Studies. ChemMedChem, 2014, 9, 109-116.	1.6	36
63	Immuno-PET of epithelial ovarian cancer: harnessing the potential of CA125 for non-invasive imaging. EJNMMI Research, 2014, 4, 60.	1.1	19
64	Synthesis, complex stability and small animal PET imaging of a novel 64Cu-labelled cryptand molecule. MedChemComm, 2014, 5, 958-962.	3.5	3
65	2,3-Diaryl-substituted indole based COX-2 inhibitors as leads for imaging tracer development. RSC Advances, 2014, 4, 38726-38742.	1.7	24
66	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.	0.3	10
67	18F-Labeled Peptides: The Future Is Bright. Molecules, 2014, 19, 20536-20556.	1.7	108
68	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
69	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.	1.2	21
70	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.	1.0	37
71	Fully automated synthesis of 4-[18F]fluorobenzylamine based on borohydride/NiCl2 reduction. Nuclear Medicine and Biology, 2013, 40, 430-436.	0.3	16
72	Application of [18F]FDG in radiolabeling reactions using microfluidic technology. Lab on A Chip, 2013, 13, 4290.	3.1	8

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73	Synthesis of three 18F-labelled cyclooxygenase-2 (COX-2) inhibitors based on a pyrimidine scaffold. Organic and Biomolecular Chemistry, 2013, 11, 8052.	1.5	28
74	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.	0.3	32
75	Positron emission tomography radiotracers for imaging hypoxia. Journal of Labelled Compounds and Radiopharmaceuticals, 2013, 56, 244-250.	0.5	21
76	Synthesis and evaluation of an 18F-labelled norbornene derivative for copper-free click chemistry reactions. Organic and Biomolecular Chemistry, 2013, 11, 3817.	1.5	28
77	1,4-Diaryl-substituted triazoles as cyclooxygenase-2 inhibitors: Synthesis, biological evaluation and molecular modeling studies. Bioorganic and Medicinal Chemistry, 2013, 21, 4288-4295.	1.4	14
78	Fluorine- and rhenium-containing geldanamycin derivatives as leads for the development of molecular probes for imaging Hsp90. Organic and Biomolecular Chemistry, 2012, 10, 6724.	1.5	12
79	Synthesis and evaluation of fluorobenzoylated di- and tripeptides as inhibitors of cyclooxygenase-2 (COX-2). Bioorganic and Medicinal Chemistry, 2012, 20, 2221-2226.	1.4	15
80	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.	1.0	26
81	Copper-free click chemistry with the short-lived positron emitter fluorine-18. Organic and Biomolecular Chemistry, 2011, 9, 7393.	1.5	61
82	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.	1.0	5
83	Synthesis of an <sup>18</sup> Fâ€labeled cyclinâ€dependent kinaseâ€2 inhibitor. Journal of Labelled Compounds and Radiopharmaceuticals, 2011, 54, 769-774.	0.5	2
84	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.	1.0	76
85	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.	0.7	26
86	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.	0.7	46
87	Synthesis and cyclooxygenase inhibition of various (aryl-1,2,3-triazole-1-yl)-methanesulfonylphenyl derivatives. Bioorganic and Medicinal Chemistry, 2009, 17, 1146-1151.	1.4	48
88	Direct labelling of peptides with 2-[18F]fluoro-2-deoxy-d-glucose ([18F]FDG). Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5426-5428.	1.0	42
89	Radiolabelling of proteins with fluorine-18 via click chemistry. Chemical Communications, 2009, , 7521.	2.2	46
90	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.	1.4	47