Carmen Wngler

List of Publications by Year in Descending Order

111 papers	2,751 citations	30 h-index	49 g-index
118 ext. papers	3,128 ext. citations	4.8 avg, IF	4.87 L-index

#	Paper	IF	Citations
111	Toward Imaging Tropomyosin Receptor Kinase (Trk) with Positron Emission Tomography **2021**, 1041-1059		0
110	Synthesis and Preclinical Evaluation of [F]SiFA-PSMA Inhibitors in a Prostate Cancer Model. *Journal of Medicinal Chemistry*, **2021**, 64, 15671-15689	8.3	
109	Dosimetry and optimal scan time of [F]SiTATE-PET/CT in patients with neuroendocrine tumours. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 48, 3571-3581	8.8	2
108	Design, Synthesis, In Vitro and In Vivo Evaluation of Heterobivalent SiFA-Modified Peptidic Radioligands Targeting Both Integrin and the MC1 Receptor-Suitable for the Specific Visualization of Melanomas?. *Pharmaceuticals*, **2021**, 14,	5.2	3
107	68Ga-NeoB: Pr linische Ergebnisse zur Bildgebung gastrointestinaler Stromatumoren und zur Bestimmung der Zielrezeptordichte im Gastrointestinaltrakt. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 44, 102-112	0.1	1
106	Specific Gold Nanoparticles for Fluorescence Imaging of Tumor Angiogenesis. *Nanomaterials*, **2021**, 11,	5.4	2
105	PET Imaging of Meningioma Using the Novel SSTR-Targeting Peptide 18F-SiTATE. *Clinical Nuclear Medicine*, **2021**, 46, 667-668	1.7	0
104	GMP-compliant production of [Ga]Ga-NeoB for positron emission tomography imaging of patients with gastrointestinal stromal tumor. *EJNMMI Radiopharmacy and Chemistry*, **2021**, 6, 22	5.8	1
103	On the Viability of Tadalafil-Based F-Radiotracers for Phosphodiesterase 5 (PDE5) PET Imaging. *ACS Omega*, **2021**, 6, 21741-21754	3.9	0
102	Are heterobivalent GRPR- and VPACR-bispecific radiopeptides suitable for efficient in vivo tumor imaging of prostate carcinomas?. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 48, 128241	2.9	1
101	Side-by-Side Comparison of Five Chelators for Zr-Labeling of Biomolecules: Investigation of Chemical/Radiochemical Properties and Complex Stability.. *Cancers*, **2021**, 13,	6.6	3
100	Aiming at the tumor-specific accumulation of MGMT-inhibitors: First description of a synthetic strategy towards inhibitor-peptide conjugates. *Tetrahedron Letters*, **2020**, 61, 151840	2	1
99	Tropomyosin receptor kinase inhibitors: an updated patent review for 2016-2019. *Expert Opinion on Therapeutic Patents*, **2020**, 30, 325-339	6.8	9
98	Functional Hybrid Molecules for the Visualization of Cancer: PESIN-Homodimers Combined with Multimodal Molecular Imaging Probes for Positron Emission Tomography and Optical Imaging: Suited for Tracking of GRPR-Positive Malignant Tissue*. *Chemistry - A European Journal*, **2020**, 26, 16349-16356	4.8	7
97	Probing two PESIN-indocyanine-dye-conjugates: significance of the used fluorophore. *Journal of Materials Chemistry B*, **2020**, 8, 1302-1309	7.3	5
96	Biodistribution and first clinical results of F-SiFAlin-TATE PET: a novel F-labeled somatostatin analog for imaging of neuroendocrine tumors. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 870-880	8.8	30
95	Hybrid Multimodal Imaging Synthons for Chemoselective and Efficient Biomolecule Modification with Chelator and Near-Infrared Fluorescent Cyanine Dye. *Pharmaceuticals*, **2020**, 13,	5.2	3

94	Radiosynthesis of [F]SiFAlin-TATE for clinical neuroendocrine tumor positron emission tomography. *Nature Protocols*, **2020**, 15, 3827-3843	18.8	5
93	Molecular imaging of cardiac CXCR4 expression in a mouse model of acute myocardial infarction using a novel Ga-mCXCL12 PET tracer. *Journal of Nuclear Cardiology*, **2020**, 1	2.1	3
92	Automated production of [F]SiTATE on a Scintomics GRP platform for PET/CT imaging of neuroendocrine tumors. *Nuclear Medicine and Biology*, **2020**, 88-89, 86-95	2.1	8
91	Identification of a Suitable Peptidic Molecular Platform for the Development of NPY(Y)R-Specific Imaging Agents. *ChemMedChem*, **2020**, 15, 1652-1660	3.7	1
90	Synthesis, characterization and optimization of in vitro properties of NIR-fluorescent cyclic MSH peptides for melanoma imaging. *Journal of Materials Chemistry B*, **2020**, 8, 10602-10608	7.3	2
89	Current State of Radiolabeled Heterobivalent Peptidic Ligands in Tumor Imaging and Therapy. *Pharmaceuticals*, **2020**, 13,	5.2	7
88	Functionalizable composite nanoparticles as a dual magnetic resonance imaging/computed tomography contrast agent for medical imaging. *Journal of Applied Polymer Science*, **2019**, 136, 47571	2.9	2
87	First-in-Human Brain Imaging of [F]TRACK, a PET tracer for Tropomyosin Receptor Kinases. *ACS Chemical Neuroscience*, **2019**, 10, 2697-2702	5.7	9
86	Targeted Cu-labeled gold nanoparticles for dual imaging with positron emission tomography and optical imaging. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2019**, 62, 471-482	1.9	12
85	First-in-human F-SiFAlin-TATE PET/CT for NET imaging and theranostics. *European Journal of Nuclear Medicine and Molecular Imaging*, **2019**, 46, 2400-2401	8.8	10
84	Radioligands for Tropomyosin Receptor Kinase (Trk) Positron Emission Tomography Imaging. *Pharmaceuticals*, **2019**, 12,	5.2	6
83	Silicon-based 18F-radiopharmaceuticals **2019**, 551-574		0
82	Identification of [F]TRACK, a Fluorine-18-Labeled Tropomyosin Receptor Kinase (Trk) Inhibitor for PET Imaging. *Journal of Medicinal Chemistry*, **2018**, 61, 1737-1743	8.3	25
81	Synthesis, in vitro and in vivo evaluation of F-fluoronorimatinib as radiotracer for Imatinib-sensitive gastrointestinal stromal tumors. *Nuclear Medicine and Biology*, **2018**, 57, 1-11	2.1	2
80	Analyses of Synthetic N-Acyl Dopamine Derivatives Revealing Different Structural Requirements for Their Anti-inflammatory and Transient-Receptor-Potential-Channel-of-the-Vanilloid-Receptor-Subfamily-Subtype-1 (TRPV1)-Activating Properties. *Journal of Medicinal Chemistry*, **2018**, 61, 3126-3137	8.3	4
79	Gastrin-Releasing Peptide Receptor- and Prostate-Specific Membrane Antigen-Specific Ultrasmall Gold Nanoparticles for Characterization and Diagnosis of Prostate Carcinoma via Fluorescence Imaging. *Bioconjugate Chemistry*, **2018**, 29, 1525-1533	6.3	14
78	Synthetic approaches towards [18F]fluoro-DOG1, a potential radiotracer for the imaging of gastrointestinal stromal tumors. *Tetrahedron Letters*, **2018**, 59, 3332-3335	2	
77	Design, Synthesis, In Vitro, and Initial In Vivo Evaluation of Heterobivalent Peptidic Ligands Targeting Both NPY(Y) and GRP-Receptors-An Improvement for Breast Cancer Imaging?. *Pharmaceuticals*, **2018**, 11,	5.2	7

76	Noncontact recognition of fluorescently labeled objects in deep tissue via a novel optical light beam arrangement. *PLoS ONE*, **2018**, 13, e0208236	3.7	3
75	iEDDA Conjugation Reaction in Radiometal Labeling of Peptides with Ga and Cu: Unexpected Findings. *ACS Omega*, **2018**, 3, 14039-14053	3.9	7
74	Design, synthesis and in vitro evaluation of heterobivalent peptidic radioligands targeting both GRP- and VPAC-Receptors concomitantly overexpressed on various malignancies - Is the concept feasible?. *European Journal of Medicinal Chemistry*, **2018**, 155, 84-95	6.8	11
73	Evaluation of two nucleophilic syntheses routes for the automated synthesis of 6-[F]fluoro-l-DOPA. *Nuclear Medicine and Biology*, **2017**, 45, 35-42	2.1	18
72	Size-controllable synthesis of polymeric iodine-carrying nanoparticles for medical CT imaging. *Polymers for Advanced Technologies*, **2017**, 28, 1610-1616	3.2	4
71	Rational Design, Development, and Stability Assessment of a Macrocyclic Four-Hydroxamate-Bearing Bifunctional Chelating Agent for Zr. *ChemMedChem*, **2017**, 12, 1555-1571	3.7	17
70	Small Prosthetic Groups in F-Radiochemistry: Useful Auxiliaries for the Design of F-PET Tracers. *Seminars in Nuclear Medicine*, **2017**, 47, 474-492	5.4	25
69	Physikalisch-technische Grundlagen und Tracerentwicklung in der Positronenemissionstomografie **2017**, 19-56		
68	Radiosynthesis and Preclinical Evaluation of F-Fluoroglycosylated Octreotate for Somatostatin Receptor Imaging. *Bioconjugate Chemistry*, **2016**, 27, 2707-2714	6.3	14
67	Nephroprotective effects of enalapril after [177Lu]-DOTATATE therapy using serial renal scintigraphies in a murine model of radiation-induced nephropathy. *EJNMMI Research*, **2016**, 6, 64	3.6	7
66	From Unorthodox to Established: The Current Status of (18)F-Trifluoroborate- and (18)F-SiFA-Based Radiopharmaceuticals in PET Nuclear Imaging. *Bioconjugate Chemistry*, **2016**, 27, 267-79	6.3	55
65	Physiologically based pharmacokinetic modeling of (18)F-SiFAlin-Asp3-PEG1-TATE in AR42J tumor bearing mice. *Nuclear Medicine and Biology*, **2016**, 43, 243-6	2.1	1
64	Radiofluorinated N-Octanoyl Dopamine ([F]F-NOD) as a Tool To Study Tissue Distribution and Elimination of NOD in Vitro and in Vivo. *Journal of Medicinal Chemistry*, **2016**, 59, 9855-9865	8.3	2
63	Next Step toward Optimization of GRP Receptor Avidities: Determination of the Minimal Distance between BBN(7-14) Units in Peptide Homodimers. *Bioconjugate Chemistry*, **2015**, 26, 1479-83	6.3	15
62	Synthesis of 3-chloro-6-((4-(di-tert-butyl[(18)F]fluorosilyl)-benzyl)oxy)-1,2,4,5-tetrazine ([(18)F]SiFA-OTz) for rapid tetrazine-based (18)F-radiolabeling. *Chemical Communications*, **2015**, 51, 12415-8	5.8	23
61	In Vivo Evaluation of [18F]SiFAlin-Modified TATE: A Potential Challenge for [68Ga]Ga-DOTATATE, the Clinical Gold Standard for Somatostatin Receptor Imaging with PET. *Journal of Nuclear Medicine*, **2015**, 56, 1100-5	8.9	63
60	Next Generation of SiFAlin-Based TATE Derivatives for PET Imaging of SSTR-Positive Tumors: Influence of Molecular Design on In Vitro SSTR Binding and In Vivo Pharmacokinetics. *Bioconjugate Chemistry*, **2015**, 26, 2350-9	6.3	28
59	Improving the stability of peptidic radiotracers by the introduction of artificial scaffolds: which structure element is most useful?. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2015**, 58, 395-402	1.9	4

58	Silicon Fluoride Acceptors (SiFAs) for Peptide and Protein Labeling with 18F **2015**, 149-161		1
57	Comparative Assessment of Complex Stabilities of Radiocopper Chelating Agents by a Combination of Complex Challenge and in vivo Experiments. *ChemMedChem*, **2015**, 10, 1200-8	3.7	11
56	A solvent resistant lab-on-chip platform for radiochemistry applications. *Lab on A Chip*, **2014**, 14, 2556-64	7.2	16
55	Synthesis and in vitro and in vivo evaluation of SiFA-tagged bombesin and RGD peptides as tumor imaging probes for positron emission tomography. *Bioconjugate Chemistry*, **2014**, 25, 738-49	6.3	31
54	Shuttle-cargo fusion molecules of transport peptides and the hD2/3 receptor antagonist fallypride: a feasible approach to preserve ligand-receptor binding?. *Journal of Medicinal Chemistry*, **2014**, 57, 4368-81	8.3	5
53	Automated radiosynthesis of N-succinimidyl 3-(di-tert-butyl[(18)F]fluorosilyl)benzoate ([(18)F]SiFB) for peptides and proteins radiolabeling for positron emission tomography. *Applied Radiation and Isotopes*, **2014**, 89, 146-50	1.7	4
52	Dose-dependent uptake of 3Pdeoxy-3P[(18) F]fluorothymidine by the bowel after total-body irradiation. *Molecular Imaging and Biology*, **2014**, 16, 846-53	3.8	
51	PESIN multimerization improves receptor avidities and in vivo tumor targeting properties to GRPR-overexpressing tumors. *Bioconjugate Chemistry*, **2014**, 25, 489-500	6.3	30
50	Rapid (18)F-labeling and loading of PEGylated gold nanoparticles for in vivo applications. *Bioconjugate Chemistry*, **2014**, 25, 1143-50	6.3	46
49	□F-labeled silicon-based fluoride acceptors: potential opportunities for novel positron emitting radiopharmaceuticals. *BioMed Research International*, **2014**, 2014, 454503	3	30
48	Optimized solid phase-assisted synthesis of dendrons applicable as scaffolds for radiolabeled bioactive multivalent compounds intended for molecular imaging. *Molecules*, **2014**, 19, 6952-74	4.8	14
47	6-[18F]fluoro-L-DOPA: a well-established neurotracer with expanding application spectrum and strongly improved radiosyntheses. *BioMed Research International*, **2014**, 2014, 674063	3	46
46	Bimodal imaging probes for combined PET and OI: recent developments and future directions for hybrid agent development. *BioMed Research International*, **2014**, 2014, 153741	3	45
45	In-vivo monitoring of erythropoietin treatment after myocardial infarction in mice with [□Ga]Annexin A5 and [□F]FDG PET. *Journal of Nuclear Cardiology*, **2014**, 21, 1191-9	2.1	11
44	In vivo monitoring of parathyroid hormone treatment after myocardial infarction in mice with [68Ga]annexin A5 and [18F]fluorodeoxyglucose positron emission tomography. *Molecular Imaging*, **2014**, 13,	3.7	9
43	(89)Zr, a radiometal nuclide with high potential for molecular imaging with PET: chemistry, applications and remaining challenges. *Molecules*, **2013**, 18, 6469-90	4.8	82
42	Positron emission tomography in the assessment of left ventricular function in healthy rats: a comparison of four imaging methods. *Journal of Nuclear Cardiology*, **2013**, 20, 262-74	2.1	14
41	Radiolabeled heterobivalent peptidic ligands: an approach with high future potential for in vivo imaging and therapy of malignant diseases. *ChemMedChem*, **2013**, 8, 883-90	3.7	16

40	[68Ga]-albumin-PET in the monitoring of left ventricular function in murine models of ischemic and dilated cardiomyopathy: comparison with cardiac MRI. *Molecular Imaging and Biology*, **2013**, 15, 441-9	3.8	18
39	Direct one-step labeling of cysteine residues on peptides with [(11)C]methyl triflate for the synthesis of PET radiopharmaceuticals. *Amino Acids*, **2013**, 45, 1097-108	3.5	9
38	Design of brain imaging agents for positron emission tomography: do large bioconjugates provide an opportunity for in vivo brain imaging?. *Future Medicinal Chemistry*, **2013**, 5, 1621-34	4.1	7
37	Microfluidics: a groundbreaking technology for PET tracer production?. *Molecules*, **2013**, 18, 7930-56	4.8	43
36	One-step (18)F-labeling of peptides for positron emission tomography imaging using the SiFA methodology. *Nature Protocols*, **2012**, 7, 1946-55	18.8	72
35	Oxalic acid supported Si-18F-radiofluorination: one-step radiosynthesis of N-succinimidyl 3-(di-tert-butyl[18F]fluorosilyl)benzoate ([18F]SiFB) for protein labeling. *Bioconjugate Chemistry*, **2012**, 23, 106-14	6.3	44
34	Evaluation of an automated double-synthesis module: efficiency and reliability of subsequent radiosyntheses of FHBG and FLT. *Nuclear Medicine and Biology*, **2012**, 39, 586-92	2.1	7
33	Protein labeling with the labeling precursor [(18)F]SiFA-SH for positron emission tomography. *Nature Protocols*, **2012**, 7, 1964-9	18.8	30
32	Synthesis of [(18)F]SiFB: a prosthetic group for direct protein radiolabeling for application in positron emission tomography. *Nature Protocols*, **2012**, 7, 1956-63	18.8	27
31	Silicon-[18F]Fluorine Radiochemistry: Basics, Applications and Challenges. *Applied Sciences (Switzerland)*, **2012**, 2, 277-302	2.6	33
30	Synthesis of [18F]Flumazenil ([18F]FZ) **2012**, 111-123		3
29	Preparation of water-soluble maleimide-functionalized 3 nm gold nanoparticles: a new bioconjugation template. *Langmuir*, **2012**, 28, 5508-12	4	39
28	68Ga-complex lipophilicity and the targeting property of a urea-based PSMA inhibitor for PET imaging. *Bioconjugate Chemistry*, **2012**, 23, 688-97	6.3	561
27	Temporal Changes in Phosphatidylserine Expression and Glucose Metabolism after Myocardial Infarction: An in Vivo Imaging Study in Mice. *Molecular Imaging*, **2012**, 11, 7290.2012.00010	3.7	10
26	Temporal changes in phosphatidylserine expression and glucose metabolism after myocardial infarction: an in vivo imaging study in mice. *Molecular Imaging*, **2012**, 11, 461-70	3.7	5
25	Fully automated SPE-based synthesis and purification of 2-[18F]fluoroethyl-choline for human use. *Nuclear Medicine and Biology*, **2011**, 38, 165-70	2.1	8
24	t-Bu2SiF-derivatized D2-receptor ligands: the first SiFA-containing small molecule radiotracers for target-specific PET-imaging. *Molecules*, **2011**, 16, 7458-79	4.8	16
23	Comparison between 68Ga-bombesin (68Ga-BZH3) and the cRGD tetramer 68Ga-RGD4 studies in an experimental nude rat model with a neuroendocrine pancreatic tumor cell line. *EJNMMI Research*, **2011**, 1, 34	3.6	11

22	In vitro and initial in vivo evaluation of (68)Ga-labeled transferrin receptor (TfR) binding peptides as potential carriers for enhanced drug transport into TfR expressing cells. *Molecular Imaging and Biology*, **2011**, 13, 332-41	3.8	19
21	N-(4-(di-tert-butyl[18F]fluorosilyl)benzyl)-2-hydroxy-N,N-dimethylethylammonium bromide ([18F]SiFAN+Br) A novel lead compound for the development of hydrophilic SiFA-based prosthetic groups for 18F-labeling. *Journal of Fluorine Chemistry*, **2011**, 132, 27-34	2.1	32
20	DOTA derivatives for site-specific biomolecule-modification via click chemistry: synthesis and comparison of reaction characteristics. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 3864-74	3.4	22
19	Alpha selective epoxide opening with 18F synthesis of 4-(3-[18F]fluoro-2-hydroxypropoxy)benzaldehyde ([18F]FPB) for peptide labeling. *Tetrahedron Letters*, **2011**, 52, 1973-1976	2	9
18	Chelating agents and their use in radiopharmaceutical sciences. *Mini-Reviews in Medicinal Chemistry*, **2011**, 11, 968-83	3.2	27
17	A universally applicable 68Ga-labeling technique for proteins. *Journal of Nuclear Medicine*, **2011**, 52, 586-91	6.9	45
16	Click-chemistry reactions in radiopharmaceutical chemistry: fast & easy introduction of radiolabels into biomolecules for in vivo imaging. *Current Medicinal Chemistry*, **2010**, 17, 1092-116	4.3	99
15	One-step F-labeling of carbohydrate-conjugated octreotate-derivatives containing a silicon-fluoride-acceptor (SiFA): in vitro and in vivo evaluation as tumor imaging agents for positron emission tomography (PET). *Bioconjugate Chemistry*, **2010**, 21, 2289-96	6.3	59
14	Multimerization of cRGD peptides by click chemistry: synthetic strategies, chemical limitations, and influence on biological properties. *ChemBioChem*, **2010**, 11, 2168-81	3.8	74
13	Generation of novel single-chain antibodies by phage-display technology to direct imaging agents highly selective to pancreatic beta- or alpha-cells in vivo. *Diabetes*, **2009**, 58, 2324-34	0.9	41
12	Simple and convenient radiolabeling of proteins using a prelabeling-approach with thiol-DOTA. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1926-9	2.9	10
11	Kit-like 18F-labeling of proteins: synthesis of 4-(di-tert-butyl[18F]fluorosilyl)benzenethiol (Si[18F]FA-SH) labeled rat serum albumin for blood pool imaging with PET. *Bioconjugate Chemistry*, **2009**, 20, 317-21	6.3	59
10	Improved work-up procedure for the production of [(18)F]flumazenil and first results of its use with a high-resolution research tomograph in human stroke. *Nuclear Medicine and Biology*, **2009**, 36, 721-7	2.1	34
9	Antibody-dendrimer conjugates: the number, not the size of the dendrimers, determines the immunoreactivity. *Bioconjugate Chemistry*, **2008**, 19, 813-20	6.3	64
8	PAMAM structure-based multifunctional fluorescent conjugates for improved fluorescent labelling of biomacromolecules. *Chemistry - A European Journal*, **2008**, 14, 8116-30	4.8	32
7	Improved syntheses and applicability of different DOTA building blocks for multiply derivatized scaffolds. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 2606-16	3.4	40
6	Radiolabeled peptides and proteins in cancer therapy. *Protein and Peptide Letters*, **2007**, 14, 273-9	1.9	23
5	Recent Developments and Trends in 18F-Radiochemistry: Syntheses and Applications. *Mini-Reviews in Organic Chemistry*, **2007**, 4, 317-329	1.7	105

4	Synthesis and in vitro evaluation of biotinylated RG108: a high affinity compound for studying binding interactions with human DNA methyltransferases. *Bioconjugate Chemistry*, **2006**, 17, 261-6	6.3	41
3	Application of tris-allyl-DOTA in the preparation of DOTA□eptide conjugates. *Tetrahedron Letters*, **2006**, 47, 5985-5988	2	22
2	Synthesis and in vitro evaluation of (S)-2-([11C]methoxy)-4-[3-methyl-1-(2-piperidine-1-yl-phenyl)-butyl-carbamoyl]-benzoic acid ([11C]methoxy-repaglinide): a potential beta-cell imaging agent. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 5205-9	2.9	30
1	Synthesis of a Tyr3-octreotate conjugated closo-carborane [HC2B10H10]: a potential compound for boron neutron capture therapy. *Tetrahedron Letters*, **2003**, 44, 9143-9145	2	24