Zhude Tu

List of Publications by Citations

116 papers	3,029 citations	33 h-index	50 g-index
119 ext. papers	3,377 ext. citations	4.7 avg, IF	4.84 L-index

#	Paper	IF	Citations
116	Identification of the PGRMC1 protein complex as the putative sigma-2 receptor binding site. *Nature Communications*, **2011**, 2, 380	17.4	245
115	Design, synthesis, and evaluation of multitarget-directed resveratrol derivatives for the treatment of Alzheimer's disease. *Journal of Medicinal Chemistry*, **2013**, 56, 5843-59	8.3	180
114	Synthesis and evaluation of multi-target-directed ligands against Alzheimer's disease based on the fusion of donepezil and ebselen. *Journal of Medicinal Chemistry*, **2013**, 56, 9089-99	8.3	125
113	Multitarget-directed benzylideneindanone derivatives: anti-β-amyloid (Aβ) aggregation, antioxidant, metal chelation, and monoamine oxidase B (MAO-B) inhibition properties against Alzheimer's disease. *Journal of Medicinal Chemistry*, **2012**, 55, 8483-92	8.3	120
112	Fluorine-18-labeled benzamide analogues for imaging the sigma2 receptor status of solid tumors with positron emission tomography. *Journal of Medicinal Chemistry*, **2007**, 50, 3194-204	8.3	95
111	Synthesis and in vitro binding of N-phenyl piperazine analogs as potential dopamine D3 receptor ligands. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 77-87	3.4	88
110	N-benzylisatin sulfonamide analogues as potent caspase-3 inhibitors: synthesis, in vitro activity, and molecular modeling studies. *Journal of Medicinal Chemistry*, **2005**, 48, 7637-47	8.3	84
109	Binding of the radioligand SIL23 to α-synuclein fibrils in Parkinson disease brain tissue establishes feasibility and screening approaches for developing a Parkinson disease imaging agent. *PLoS ONE*, **2013**, 8, e55031	3.7	75
108	Benzenediol-berberine hybrids: multifunctional agents for Alzheimer's disease. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 7228-35	3.4	67
107	Design, Synthesis, and Characterization of 3-(Benzylidene)indolin-2-one Derivatives as Ligands for α-Synuclein Fibrils. *Journal of Medicinal Chemistry*, **2015**, 58, 6002-17	8.3	63
106	The novel sigma-2 receptor ligand SW43 stabilizes pancreas cancer progression in combination with gemcitabine. *Molecular Cancer*, **2010**, 9, 298	42.1	62
105	Carbon-11 labeled sigma2 receptor ligands for imaging breast cancer. *Nuclear Medicine and Biology*, **2005**, 32, 423-30	2.1	62
104	Inhibition of cholinesterase activity and amyloid aggregation by berberine-phenyl-benzoheterocyclic and tacrine-phenyl-benzoheterocyclic hybrids. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 3038-48	3.4	58
103	[3H]N-[4-(3,4-dihydro-6,7-dimethoxyisoquinolin-2(1H)-yl)butyl]-2-methoxy-5-methylbenzamide: a novel sigma-2 receptor probe. *European Journal of Pharmacology*, **2005**, 525, 8-17	5.3	53
102	Radiosynthesis and in vivo evaluation of [11C]MP-10 as a PET probe for imaging PDE10A in rodent and non-human primate brain. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 1666-73	3.4	52
101	Carbon-11 labeled papaverine as a PET tracer for imaging PDE10A: radiosynthesis, in vitro and in vivo evaluation. *Nuclear Medicine and Biology*, **2010**, 37, 509-16	2.1	47
100	Synthesis and biological evaluation of a new series of ebselen derivatives as glutathione peroxidase (GPx) mimics and cholinesterase inhibitors against Alzheimer's disease. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 1355-61	3.4	45

99	O-Hydroxyl- or o-amino benzylamine-tacrine hybrids: multifunctional biometals chelators, antioxidants, and inhibitors of cholinesterase activity and amyloid-□aggregation. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 5884-92	3.4	43
98	Synthesis and in vitro and in vivo evaluation of 18F-labeled positron emission tomography (PET) ligands for imaging the vesicular acetylcholine transporter. *Journal of Medicinal Chemistry*, **2009**, 52, 1358-69	8.3	43
97	Synthesis and biological evaluation of a new series of berberine derivatives as dual inhibitors of acetylcholinesterase and butyrylcholinesterase. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 4475-84	3.4	42
96	Pharmacologic characterizations of a P2X7 receptor-specific radioligand, [11C]GSK1482160 for neuroinflammatory response. *Nuclear Medicine Communications*, **2017**, 38, 372-382	1.6	40
95	Characterization of a novel iodinated sigma-2 receptor ligand as a cell proliferation marker. *Nuclear Medicine and Biology*, **2006**, 33, 203-9	2.1	40
94	Synthesis and in vitro evaluation of □synuclein ligands. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 4625-34	3.4	38
93	Synthesis and in vivo evaluation of [11C]PJ34, a potential radiotracer for imaging the role of PARP-1 in necrosis. *Nuclear Medicine and Biology*, **2005**, 32, 437-43	2.1	38
92	Quantitative receptor-based imaging of tumor proliferation with the sigma-2 ligand [(18)F]ISO-1. *PLoS ONE*, **2013**, 8, e74188	3.7	38
91	Novel tacrine-ebselen hybrids with improved cholinesterase inhibitory, hydrogen peroxide and peroxynitrite scavenging activity. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 6737-42	2.9	37
90	Radiosynthesis and Evaluation of Two PET Radioligands for Imaging □Synuclein. *Applied Sciences (Switzerland)*, **2014**, 4, 66-78	2.6	37
89	Endogenous dopamine (DA) competes with the binding of a radiolabeled D□receptor partial agonist in vivo: a positron emission tomography study. *Synapse*, **2011**, 65, 724-32	2.4	36
88	Synthesis and in vivo evaluation of 2 high-affinity 76Br-labeled sigma2-receptor ligands. *Journal of Nuclear Medicine*, **2006**, 47, 1041-8	8.9	36
87	Synthesis and pharmacological evaluation of fluorine-containing D□dopamine receptor ligands. *Journal of Medicinal Chemistry*, **2011**, 54, 1555-64	8.3	35
86	Synthesis and characterization of selective dopamine D2 receptor antagonists. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 815-25	3.4	34
85	Current status of the development of PET radiotracers for imaging alpha synuclein aggregates in Lewy bodies and Lewy neurites. *Clinical and Translational Imaging*, **2017**, 5, 3-14	2	33
84	[3H]4-(dimethylamino)-N-(4-(4-(2-methoxyphenyl)piperazin-1-yl) butyl)benzamide: a selective radioligand for dopamine D(3) receptors. II. Quantitative analysis of dopamine D(3) and D(2) receptor density ratio in the caudate-putamen. *Synapse*, **2010**, 64, 449-59	2.4	33
83	Functional assays to define agonists and antagonists of the sigma-2 receptor. *Analytical Biochemistry*, **2014**, 448, 68-74	3.1	31
82	Berberine derivatives, with substituted amino groups linked at the 9-position, as inhibitors of acetylcholinesterase/butyrylcholinesterase. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6649-52	2.9	30

81	PET Imaging Study of S1PR1 Expression in a Rat Model of Multiple Sclerosis. *Molecular Imaging and Biology*, **2016**, 18, 724-32	3.8	28
80	Synthesis and in vitro characterization of a P2X7 radioligand [I]TZ6019 and its response to neuroinflammation in a mouse model of Alzheimer disease. *European Journal of Pharmacology*, **2018**, 820, 8-17	5.3	27
79	Radiosynthesis and biological evaluation of a promising sigma(2)-receptor ligand radiolabeled with fluorine-18 or iodine-125 as a PET/SPECT probe for imaging breast cancer. *Applied Radiation and Isotopes*, **2010**, 68, 2268-73	1.7	27
78	[(3)H]4-(Dimethylamino)-N-[4-(4-(2-methoxyphenyl)piperazin- 1-yl)butyl]benzamide, a selective radioligand for dopamine D(3) receptors. I. In vitro characterization. *Synapse*, **2009**, 63, 717-28	2.4	26
77	The Ru-catalyzed enantioselective preparation of chiral halohydrins and their application in the synthesis of (R)-clorprenaline and (S)-sotalol. *Tetrahedron: Asymmetry*, **2011**, 22, 722-727		26
76	A promising carbon-11-labeled sphingosine-1-phosphate receptor 1-specific PET tracer for imaging vascular injury. *Journal of Nuclear Cardiology*, **2017**, 24, 558-570	2.1	25
75	Synthesis and biological characterization of a promising F-18 PET tracer for vesicular acetylcholine transporter. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4699-4709	3.4	25
74	Synthesis and structure-activity relationship studies of conformationally flexible tetrahydroisoquinolinyl triazole carboxamide and triazole substituted benzamide analogues as 2 receptor ligands. *Journal of Medicinal Chemistry*, **2014**, 57, 4239-51	8.3	24
73	Heteroaromatic and aniline derivatives of piperidines as potent ligands for vesicular acetylcholine transporter. *Journal of Medicinal Chemistry*, **2013**, 56, 6216-33	8.3	23
72	Neuroprotective effects of high affinity 1 receptor selective compounds. *Brain Research*, **2012**, 1441, 17-26	3.7	22
71	Synthesis and in vitro biological evaluation of carbonyl group-containing inhibitors of vesicular acetylcholine transporter. *Journal of Medicinal Chemistry*, **2010**, 53, 2825-35	8.3	22
70	Alpha Synuclein Fibrils Contain Multiple Binding Sites for Small Molecules. *ACS Chemical Neuroscience*, **2018**, 9, 2521-2527	5.7	22
69	Synthesis of Fluorine-Containing Phosphodiesterase 10A (PDE10A) Inhibitors and the In Vivo Evaluation of F-18 Labeled PDE10A PET Tracers in Rodent and Nonhuman Primate. *Journal of Medicinal Chemistry*, **2015**, 58, 8584-600	8.3	21
68	2-(2-Piperidyl)- and 2-(2-pyrrolidyl)chromans as nicotine agonists: synthesis and preliminary pharmacological characterization. *Journal of Medicinal Chemistry*, **2001**, 44, 4704-15	8.3	19
67	Radiosyntheses and in vivo evaluation of carbon-11 PET tracers for PDE10A in the brain of rodent and nonhuman primate. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 2648-54	3.4	18
66	Hybrids consisting of the pharmacophores of salmeterol and roflumilast or phthalazinone: dual adrenoceptor agonists-PDE4 inhibitors for the treatment of COPD. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 1548-52	2.9	18
65	Design, Synthesis, and In Vitro and In Vivo Evaluation of an (18)F-Labeled Sphingosine 1-Phosphate Receptor 1 (S1P1) PET Tracer. *Journal of Medicinal Chemistry*, **2016**, 59, 6201-20	8.3	17
64	Synthesis and in vitro characterization of cinnoline and benzimidazole analogues as phosphodiesterase 10A inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 919-24	2.9	16

63	Chalcones and Five-Membered Heterocyclic Isosteres Bind to Alpha Synuclein Fibrils in Vitro. *ACS Omega*, **2018**, 3, 4486-4493	3.9	16
62	Synthesis and evaluation of 15-(4-(2-[□E]Fluoroethoxy)phenyl)pentadecanoic acid: a potential PET tracer for studying myocardial fatty acid metabolism. *Bioconjugate Chemistry*, **2010**, 21, 2313-9	6.3	16
61	Preclinical evaluation of a promising C-11 labeled PET tracer for imaging phosphodiesterase 10A in the brain of living subject. *NeuroImage*, **2015**, 121, 253-62	7.9	15
60	A potent and selective C-11 labeled PET tracer for imaging sphingosine-1-phosphate receptor 2 in the CNS demonstrates sexually dimorphic expression. *Organic and Biomolecular Chemistry*, **2015**, 13, 7928-39	3.9	15
59	A practical process for the preparation of [(32)P]S1P and binding assay for S1P receptor ligands. *Applied Radiation and Isotopes*, **2015**, 102, 5-9	1.7	15
58	An efficient and promising method to prepare Ladostigil (TV3326) via asymmetric transfer hydrogenation catalyzed by Ru□s-DPEN in an HCOONa□H2O□urfactant system. *Tetrahedron: Asymmetry*, **2012**, 23, 333-338		15
57	Synthesis and biological evaluation of pyrazole group-containing analogues for PDE10A. *MedChemComm*, **2013**, 4, 443-449	5	15
56	Synthesis and evaluation of in vitro bioactivity for vesicular acetylcholine transporter inhibitors containing two carbonyl groups. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 4422-9	3.4	15
55	PET Study of Sphingosine-1-Phosphate Receptor 1 Expression in Response to Vascular Inflammation in a Rat Model of Carotid Injury. *Molecular Imaging*, **2017**, 16, 1536012116689770	3.7	14
54	Glycan array analysis of the antigen repertoire targeted by tumor-binding antibodies. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 6839-43	2.9	14
53	Synthesis and in vitro biological evaluation of carbonyl group-containing analogues for □1 receptors. *Journal of Medicinal Chemistry*, **2011**, 54, 5362-72	8.3	14
52	Syntheses and in□vitro evaluation of new S1PR1 compounds and initial evaluation of a lead F-18 radiotracer in rodents. *European Journal of Medicinal Chemistry*, **2018**, 150, 796-808	6.8	13
51	Effect of cyclosporin A on the uptake of D3-selective PET radiotracers in rat brain. *Nuclear Medicine and Biology*, **2011**, 38, 725-39	2.1	13
50	Pyrazole Scaffold Synthesis, Functionalization, and Applications in Alzheimer□s Disease and Parkinson□s Disease Treatment (2011-2020). *Molecules*, **2021**, 26,	4.8	13
49	Kinetics modeling and occupancy studies of a novel C-11 PET tracer for VAChT in nonhuman primates. *Nuclear Medicine and Biology*, **2016**, 43, 131-9	2.1	12
48	Computer-assisted designed "selenoxy-chinolin": a new catalytic mechanism of the GPx-like cycle and inhibition of metal-free and metal-associated A□aggregation. *Dalton Transactions*, **2015**, 44, 20913-25	4.3	11
47	Chemical and enzyme-assisted syntheses of norbuprenorphine-3-□D-glucuronide. *Bioconjugate Chemistry*, **2011**, 22, 752-8	6.3	11
46	Upregulated Sphingosine 1-Phosphate Receptor 1 Expression in Human and Murine Atherosclerotic Plaques. *Molecular Imaging and Biology*, **2018**, 20, 448-456	3.8	11

45	Automated production of [□F]VAT suitable for clinical PET study of vesicular acetylcholine transporter. *Applied Radiation and Isotopes*, **2016**, 107, 40-46	1.7	10
44	In vitro and in vivo characterization of two C-11-labeled pet tracers for vesicular acetylcholine transporter. *Molecular Imaging and Biology*, **2014**, 16, 773-80	3.8	10
43	Preclinical evaluation of the novel monoclonal antibody H6-11 for prostate cancer imaging. *Molecular Pharmaceutics*, **2013**, 10, 3655-64	5.6	9
42	Radiation dosimetry of [(18)F]VAT in nonhuman primates. *EJNMMI Research*, **2015**, 5, 73	3.6	9
41	Synthesis, radiolabeling and initial in vivo evaluation of [(11)C]KSM-01 for imaging PPAR-□ receptors. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 6233-6	2.9	9
40	Design, synthesis, and in vitro evaluation of quinolinyl analogues for □synuclein aggregation. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 1011-1019	2.9	8
39	Syntheses and radiosyntheses of two carbon-11 labeled potent and selective radioligands for imaging vesicular acetylcholine transporter. *Molecular Imaging and Biology*, **2014**, 16, 765-72	3.8	8
38	Positron emission tomography imaging of dopamine D2 receptors using a highly selective radiolabeled D2 receptor partial agonist. *NeuroImage*, **2013**, 71, 168-74	7.9	8
37	Synthesis and in vitro evaluation of new analogues as inhibitors for phosphodiesterase 10A. *European Journal of Medicinal Chemistry*, **2011**, 46, 3986-95	6.8	8
36	C. Elegans Fatty Acid Two-Hydroxylase Regulates Intestinal Homeostasis by Affecting Heptadecenoic Acid Production. *Cellular Physiology and Biochemistry*, **2018**, 49, 947-960	3.9	8
35	Kinetic modeling of [F]VAT, a novel radioligand for positron emission tomography imaging vesicular acetylcholine transporter in non-human primate brain. *Journal of Neurochemistry*, **2018**, 144, 791-804	6	7
34	Design and synthesis of pyrazolopyridine derivatives as sphingosine 1-phosphate receptor 2 ligands. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 488-496	2.9	7
33	Development of a carbon-11 PET radiotracer for imaging TRPC5 in the brain. *Organic and Biomolecular Chemistry*, **2019**, 17, 5586-5594	3.9	6
32	In vitro and ex vivo characterization of (-)-TZ659 as a ligand for imaging the vesicular acetylcholine transporter. *European Journal of Pharmacology*, **2015**, 752, 18-25	5.3	6
31	In vivo Characterization of Four F-Labeled S1PR1 Tracers for Neuroinflammation. *Molecular Imaging and Biology*, **2020**, 22, 1362-1369	3.8	6
30	Design, synthesis, and in vitro bioactivity evaluation of fluorine-containing analogues for sphingosine-1-phosphate 2 receptor. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 3619-3631	3.4	6
29	Absorbed radiation dosimetry of the D-specific PET radioligand [F]FluorTriopride estimated using rodent and nonhuman primate. *American Journal of Nuclear Medicine and Molecular Imaging*, **2016**, 6, 301-309	2.2	6
28	Syntheses and in vitro biological evaluation of S1PR1 ligands and PET studies of four F-18 labeled radiotracers in the brain of nonhuman primates. *Organic and Biomolecular Chemistry*, **2018**, 16, 9171-9184	3.9	6

27	Synthesis, resolution, and in vitro evaluation of three vesicular acetylcholine transporter ligands and evaluation of the lead fluorine-18 radioligand in a nonhuman primate. *Organic and Biomolecular Chemistry*, **2017**, 15, 5197-5209	3.9	5
26	Chiral resolution of serial potent and selective ligands and biological evaluation of (-)-[F]TZ3108 in rodent and the nonhuman primate brain. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 1533-1542	3.4	4
25	Comparison of [C]TZ1964B and [F]MNI659 for PET imaging brain PDE10A in nonhuman primates. *Pharmacology Research and Perspectives*, **2016**, 4, e00253	3.1	4
24	In Vivo Characterization of Two F-Labeled PDE10A PET Radioligands in Nonhuman Primate Brains. *ACS Chemical Neuroscience*, **2018**, 9, 1066-1073	5.7	3
23	Exploration of Sulfur-Containing Analogues for Imaging Vesicular Acetylcholine Transporter in the Brain. *ChemMedChem*, **2018**, 13, 1978-1987	3.7	3
22	Automated production of a sphingosine-1 phosphate receptor 1 (S1P1) PET radiopharmaceutical [C]CS1P1 for human use. *Applied Radiation and Isotopes*, **2019**, 152, 30-36	1.7	3
21	Automated radiochemical synthesis and biodistribution of [C]l-acetylmethadol ([C]LAAM). *Applied Radiation and Isotopes*, **2014**, 91, 135-40	1.7	3
20	and Investigation of S1PR1 Expression in the Central Nervous System Using [H]CS1P1 and [C]CS1P1. *ACS Chemical Neuroscience*, **2021**, 12, 3733-3744	5.7	3
19	Radiosynthesis and evaluation of a novel selective PET ligand. *MedChemComm*, **2014**, 5, 1669-1677	5	2
18	Structure-activity relationship studies and bioactivity evaluation of 1,2,3-triazole containing analogues as a selective sphingosine kinase-2 inhibitors. *European Journal of Medicinal Chemistry*, **2020**, 206, 112713	6.8	2
17	4-aroylpiperidines and 4-(hydroxyphenyl)piperidines as selective sigma-1 receptor ligands: synthesis, preliminary pharmacological evaluation and computational studies. *Chemistry Central Journal*, **2016**, 10, 53		2
16	Acute Rodent Tolerability, Toxicity, and Radiation Dosimetry Estimates of the S1P1-Specific Radioligand [C]CS1P1. *Molecular Imaging and Biology*, **2020**, 22, 285-292	3.8	2
15	Radiosynthesis and evaluation of a fluorine-18 labeled radioligand targeting vesicular acetylcholine transporter. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 3425-3430	2.9	2
14	Baseline Microglial Activation Correlates With Brain Amyloidosis and Longitudinal Cognitive Decline in Alzheimer Disease.. *Neurology: Neuroimmunology and NeuroInflammation*, **2022**, 9,	9.1	2
13	Synthesis and pharmacological evaluation of indolyl carboxylic amide analogues as D dopamine receptor selective ligands. *MedChemComm*, **2013**, 4, 1283-1289	5	1
12	Automated radiosynthesis of [11C]morphine for clinical investigation. *Applied Radiation and Isotopes*, **2011**, 69, 431-5	1.7	1
11	Synthesis and evaluation of highly selective quinazoline-2,4-dione ligands for sphingosine-1-phosphate receptor 2.. *RSC Medicinal Chemistry*, **2022**, 13, 202-207	3.5	1
10	PET Study of Sphingosine-1-phosphate Receptor 1 Expression in Response to Infection.. *Molecular Imaging*, **2021**, 2021, 9982020	3.7	1

9	In vitro characterization of [H]VAT in cells, animal and human brain tissues for vesicular acetylcholine transporter. *European Journal of Pharmacology*, **2021**, 911, 174556	5.3	1
8	The impact of dopamine D-like agonist/antagonist on [F]VAT PET measurement of VAChT in the brain of nonhuman primates. *European Journal of Pharmaceutical Sciences*, **2020**, 143, 105152	5.1	1
7	Synthesis and characterization of [I]TZ6544, a promising radioligand for investigating sphingosine-1-phosphate receptor 2. *Nuclear Medicine and Biology*, **2020**, 88-89, 52-61	2.1	1
6	Synthesis and Characterization of a Specific Iodine-125-Labeled TRPC5 Radioligand. *ChemMedChem* , **2020**, 15, 1854-1860	3.7	1
5	Spatially constrained kinetic modeling with dual reference tissues improves F-flortaucipir PET in studies of Alzheimer disease. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 48, 3172-3186	8.8	1
4	Differential Sphingosine-1-Phosphate Receptor-1 Protein Expression in the Dorsolateral Prefrontal Cortex Between Schizophrenia Type 1 and Type 2.. *Frontiers in Psychiatry*, **2022**, 13, 827981	5	1
3	Cholinergic imbalance in lumbar spinal cord of a rat model of multiple sclerosis. *Journal of Neuroimmunology*, **2018**, 318, 29-35	3.5	
2	Synthesis and in vitro evaluation of new TRPV4 ligands and biodistribution study of an C-labeled radiotracer in rodents. *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 127573	2.9	
1	Radiosynthesis and characterization of a carbon-11 PET tracer for receptor-interacting protein kinase 1.. *Nuclear Medicine and Biology*, **2022**, 110-111, 18-27	2.1	