Xiankai Sun

List of Publications by Year in descending order

77 papers	4,941 citations	136950 32 h-index	95266 68 g-index
84 all docs	84 docs citations	84 times ranked	8442 citing authors

#	Article	IF	Citations
1	Targeting renal cell carcinoma with a HIF-2 antagonist. Nature, 2016, 539, 112-117.	27.8	521
2	Comparative in Vivo Stability of Copper-64-Labeled Cross-Bridged and Conventional Tetraazamacrocyclic Complexes. Journal of Medicinal Chemistry, 2004, 47, 1465-1474.	6.4	449
3	Luminescent Gold Nanoparticles with Efficient Renal Clearance. Angewandte Chemie - International Edition, 2011, 50, 3168-3172.	13.8	401
4	PD-L1 on host cells is essential for PD-L1 blockadeâ€“mediated tumor regression. Journal of Clinical Investigation, 2018, 128, 580-588.	8.2	388
5	Radiolabeling and In Vivo Behavior of Copper-64-Labeled Cross-Bridged Cyclam Ligands. Journal of Medicinal Chemistry, 2002, 45, 469-477.	6.4	226
6	An Assessment of the Effects of Shell Cross-Linked Nanoparticle Size, Core Composition, and Surface PEGylation on in Vivo Biodistribution. Biomacromolecules, 2005, 6, 2541-2554.	5.4	215
7	Nearâ€Infrared Emitting Radioactive Gold Nanoparticles with Molecular Pharmacokinetics. Angewandte Chemie - International Edition, 2012, 51, 10118-10122.	13.8	184
8	Lin28b Is Sufficient to Drive Liver Cancer and Necessary for Its Maintenance in Murine Models. Cancer Cell, 2014, 26, 248-261.	16.8	176
9	An Adipose Tissue Atlas: An Image-Guided Identification of Human-like BAT and Beige Depots in Rodents. Cell Metabolism, 2018, 27, 252-262.e3.	16.2	174
10	A transistor-like pH nanoprobe for tumour detection and image-guided surgery. Nature Biomedical Engineering, 2017, 1, .	22.5	163
11	The Warburg effect and glucose-derived cancer theranostics. Drug Discovery Today, 2017, 22, 1637-1653.	6.4	111
12	Dendrimer Nanoscaffolds for Potential Theranostics of Prostate Cancer with a Focus on Radiochemistry. Molecular Pharmaceutics, 2013, 10, 793-812.	4.6	98
13	The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. Nature Metabolism, 2020, 2, 1401-1412.	11.9	82
14	Renal Clearance and Degradation of Glutathione-Coated Copper Nanoparticles. Bioconjugate Chemistry, 2015, 26, 511-519.	3.6	78
15	Gliomas Interact with Non-glioma Brain Cells via Extracellular Vesicles. Cell Reports, 2020, 30, 2489-2500.e5.	6.4	68
16	In vivo behavior of copper-64-labeled methanephosphonate tetraaza macrocyclic ligands. Journal of Biological Inorganic Chemistry, 2003, 8, 217-225.	2.6	65
17	Synthesis, Potentiometric, Kinetic, and NMR Studies of 1,4,7,10-Tetraazacyclododecane-1,7-bis(acetic) Tj ETQq1 1 0.784314 rgBT /Ov Lanthanide(III) Ions. Inorganic Chemistry, 2008, 47, 3851-3862.	4.0	65
18	Imparting Multivalency to a Bifunctional Chelator: A Scaffold Design for Targeted PET Imaging Probes. Angewandte Chemie - International Edition, 2009, 48, 7346-7349.	13.8	65

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19	Xenosiderophore Utilization Promotes Bacteroides thetaiotaomicron Resilience during Colitis. Cell Host and Microbe, 2020, 27, 376-388.e8.	11.0	61
20	Theranostic Nanoseeds for Efficacious Internal Radiation Therapy of Unresectable Solid Tumors. Scientific Reports, 2016, 6, 20614.	3.3	59
21	Attention-Deficit/Hyperactivity Phenotype in Mice Lacking the Cyclin-Dependent Kinase 5 Cofactor p35. Biological Psychiatry, 2010, 68, 1163-1171.	1.3	56
22	PD-L1 detection using 89Zr-atezolizumab immuno-PET in renal cell carcinoma tumorgrafts from a patient with favorable nivolumab response. , 2019, 7, 144.		53
23	Interactions of Renalâ€Clearable Gold Nanoparticles with Tumor Microenvironments: Vasculature and Acidity Effects. Angewandte Chemie - International Edition, 2017, 56, 4314-4319.	13.8	51
24	MicroPET Imaging of MCF-7 Tumors in Mice via unr mRNA-Targeted Peptide Nucleic Acids. Bioconjugate Chemistry, 2005, 16, 294-305.	3.6	50
25	Production and Applications of Copper-64 Radiopharmaceuticals. Methods in Enzymology, 2004, 386, 237-261.	1.0	49
26	PET imaging of occult tumours by temporal integration of tumour-acidosis signals from pH-sensitive 64Cu-labelled polymers. Nature Biomedical Engineering, 2020, 4, 314-324.	22.5	48
27	Glutathione-Coated Luminescent Gold Nanoparticles: A Surface Ligand for Minimizing Serum Protein Adsorption. ACS Applied Materials & Interfaces, 2014, 6, 11829-11833.	8.0	47
28	Multivalent Bifunctional Chelator Scaffolds for Gallium-68 Based Positron Emission Tomography Imaging Probe Design: Signal Amplification via Multivalency. Bioconjugate Chemistry, 2011, 22, 1650-1662.	3.6	44
29	Control of cerebral ischemia with magnetic nanoparticles. Nature Methods, 2017, 14, 160-166.	19.0	43
30	Design of a Small-Molecule Drug Conjugate for Prostate Cancer Targeted Theranostics. Bioconjugate Chemistry, 2016, 27, 1681-1689.	3.6	39
31	PSMA-Targeting Imaging and Theranostic Agentsâ€"Current Status and Future Perspective. International Journal of Molecular Sciences, 2022, 23, 1158.	4.1	37
32	Copper-67 radioimmunotheranostics for simultaneous immunotherapy and immuno-SPECT. Scientific Reports, 2021, 11, 3622.	3.3	34
33	Dimerization of a Phage-Display Selected Peptide for Imaging of Î±_vÎ²₆- Integrin: Two Approaches to the Multivalent Effect. Theranostics, 2014, 4, 745-760.	10.0	32
34	The Effect of the Amide Substituent on the Biodistribution and Tolerance of Lanthanide(III) DOTA-Tetraamide Derivatives. Investigative Radiology, 2008, 43, 861-870.	6.2	26
35	Recent Advances in Copper Radiopharmaceuticals. Current Radiopharmaceuticals, 2011, 4, 109-121.	0.8	25
36	In vivo evaluation of copper-64-labeled monooxo-tetraazamacrocyclic ligands. Nuclear Medicine and Biology, 2004, 31, 1051-1059.	0.6	23

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37	Highly Specific PET Imaging of Prostate Tumors in Mice with an Iodine-124-Labeled Antibody Fragment That Targets Phosphatidylserine. PLoS ONE, 2013, 8, e84864.	2.5	23
38	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. Journal of Nuclear Medicine, 2014, 55, 1204-1207.	5.0	23
39	Bombesin functionalized ⁶⁴Cu-copper sulfide nanoparticles for targeted imaging of orthotopic prostate cancer. Nanomedicine, 2018, 13, 1695-1705.	3.3	23
40	PET with Non-Standard Nuclides. Current Topics in Medicinal Chemistry, 2010, 10, 1096-1112.	2.1	21
41	A cell permeable peptide analog as a potential-specific PET imaging probe for prostate cancer detection. Amino Acids, 2011, 41, 1093-1101.	2.7	21
42	C-terminal variable AGES domain of Thymosin Î²4: the molecule's primary contribution in support of post-ischemic cardiac function and repair. Journal of Molecular and Cellular Cardiology, 2015, 87, 113-125.	1.9	21
43	Imaging of Actively Proliferating Bacterial Infections by Targeting the Bacterial Metabolic Footprint with <scp>d</scp>-[5-¹¹C]-Glutamine. ACS Infectious Diseases, 2021, 7, 347-361.	3.8	20
44	Peptoid-based PET imaging of vascular endothelial growth factor receptor (VEGFR) expression. American Journal of Nuclear Medicine and Molecular Imaging, 2011, 1, 65-75.	1.0	20
45	An osteoclast-targeting agent for imaging and therapy of bone metastasis. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4789-4793.	2.2	19
46	Analysis of oligo-arginine cell-permeable peptides uptake by prostate cells. Amino Acids, 2012, 42, 1253-1260.	2.7	19
47	Molecular Platform for Design and Synthesis of Targeted Dual-Modality Imaging Probes. Bioconjugate Chemistry, 2015, 26, 549-558.	3.6	18
48	Click-Chemistry Strategy for Labeling Antibodies with Copper-64 via a Cross-Bridged Tetraazamacrocyclic Chelator Scaffold. Bioconjugate Chemistry, 2015, 26, 782-789.	3.6	18
49	Theranostic Small-Molecule Prodrug Conjugates for Targeted Delivery and Controlled Release of Toll-like Receptor 7 Agonists. International Journal of Molecular Sciences, 2022, 23, 7160.	4.1	18
50	[⁶⁸Ga]â€HPâ€DO3Aâ€nitroimidazole: a promising agent for PET detection of tumor hypoxia. Contrast Media and Molecular Imaging, 2015, 10, 465-472.	0.8	17
51	Interactions of Renalâ€Clearable Gold Nanoparticles with Tumor Microenvironments: Vasculature and Acidity Effects. Angewandte Chemie, 2017, 129, 4378-4383.	2.0	16
52	A renal cell carcinoma tumorgraft platform to advance precision medicine. Cell Reports, 2021, 37, 110055.	6.4	16
53	Synthesis and evaluation of lanthanide ion DOTAâ€“tetraamide complexes bearing peripheral hydroxyl groups. Journal of Biological Inorganic Chemistry, 2009, 14, 421-438.	2.6	15
54	Trapping Iron Oxide into Hollow Gold Nanoparticles. Nanoscale Research Letters, 2011, 6, 43.	5.7	15

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55	Tumor Uptake of Triazine Dendrimers Decorated with Four, Sixteen, and Sixty-Four PSMA-Targeted Ligands: Passive versus Active Tumor Targeting. Biomolecules, 2019, 9, 421.	4.0	15
56	Radiolabeling strategies and pharmacokinetic studies for metal based nanotheranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1671.	6.1	15
57	Combined Tumor Environment Triggered Selfâ€Assembling Peptide Nanofibers and Inducible Multivalent Ligand Display for Cancer Cell Targeting with Enhanced Sensitivity and Specificity. Small, 2020, 16, e2002780.	10.0	13
58	Tumor-specific targeting by Bavituximab, a phosphatidylserine-targeting monoclonal antibody with vascular targeting and immune modulating properties, in lung cancer xenografts. American Journal of Nuclear Medicine and Molecular Imaging, 2015, 5, 493-503.	1.0	12
59	A Multivalent Approach of Imaging Probe Design To Overcome an Endogenous Anion Binding Competition for Noninvasive Assessment of Prostate Specific Membrane Antigen. Molecular Pharmaceutics, 2013, 10, 2975-2985.	4.6	11
60	Enantiopure bifunctional chelators for copper radiopharmaceuticals â€“ Does chirality matter in radiotracer design?. European Journal of Medicinal Chemistry, 2014, 80, 308-315.	5.5	11
61	Serial Non-Invasive Assessment of Antibody Induced Nephritis in Mice Using Positron Emission Tomography. PLoS ONE, 2013, 8, e57418.	2.5	11
62	Neuropathological Effects of Chemotherapeutic Drugs. ACS Chemical Neuroscience, 2021, 12, 3038-3048.	3.5	10
63	Validation of SV2A-Targeted PET Imaging for Noninvasive Assessment of Neuroendocrine Differentiation in Prostate Cancer. International Journal of Molecular Sciences, 2021, 22, 13085.	4.1	10
64	Derivatization of (Â±) dihydrotetrabenazine for copper-64 labeling towards long-lived radiotracers for PET imaging of the vesicular monoamine transporter 2. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5663-5665.	2.2	8
65	Dimensionality-Dependent Mechanical Stretch Regulation of Cell Behavior. ACS Applied Materials & Interfaces, 2022, 14, 17081-17092.	8.0	8
66	A comparative study of trans- and cis-isomers of a bone-seeking agent, DO2A2P. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 571-574.	2.2	4
67	Self-assembly of chimeric peptides toward molecularly defined hexamers with controlled multivalent ligand presentation. Chemical Communications, 2020, 56, 7128-7131.	4.1	4
68	Fifty Years of Radiopharmaceuticals. Journal of Nuclear Medicine Technology, 2020, 48, 34S-39S.	0.8	4
69	Acceleration of the acquisition of imaging probes using spatiotemporal processing. , 2013, , .		3
70	Functional imaging of RAS pathway targeting in malignant peripheral nerve sheath tumor cells and xenografts. Pediatric Blood and Cancer, 2020, 67, e28639.	1.5	2
71	Selective depletion of radiolabeled HER2-specific antibody for contrast improvement during PET. MAbs, 2021, 13, 1976705.	5.2	2
72	A New F-18 Labeled PET Agent For Imaging Alzheimerâ€™s Plaques. , 2011, , .		1

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73	An exploratory study of 89Zr-DFO-Atezolizumab ImmunoPET/CT in patients with locally advanced or metastatic renal cell carcinoma.. Journal of Clinical Oncology, 2020, 38, TPS759-TPS759.	1.6	1
74	Spatial denoising methods for low count functional images. , 2015, , .		0
75	Comparative Evaluation of Two Venous Sampling Techniques for the Assessment of Pancreatic Insulin and Zinc Release upon Glucose Challenge. Journal of Diabetes Research, 2015, 2015, 1-7.	2.3	0
76	Feasibility study of direct beta particle detection using gas electron multiplier. , 2016, , .		0
77	Comparison of BMIPP-SPECT/CT to 18FDG-PET/CT for Imaging Brown or Browning Fat in a Preclinical Model. International Journal of Molecular Sciences, 2022, 23, 4880.	4.1	0