

Xiankai Sun

List of Publications by Year in descending order

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77
papers

4,941
citations

136940

32
h-index

95259

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. <i>Nature</i> , 2016, 539, 112-117.	27.8	521
2	Comparative in Vivo Stability of Copper-64-Labeled Cross-Bridged and Conventional Tetraazamacrocyclic Complexes. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1465-1474.	6.4	449
3	Luminescent Gold Nanoparticles with Efficient Renal Clearance. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3168-3172.	13.8	401
4	PD-L1 on host cells is essential for PD-L1 blockade-mediated tumor regression. <i>Journal of Clinical Investigation</i> , 2018, 128, 580-588.	8.2	388
5	Radiolabeling and In Vivo Behavior of Copper-64-Labeled Cross-Bridged Cyclam Ligands. <i>Journal of Medicinal Chemistry</i> , 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. <i>Biomacromolecules</i> , 2005, 6, 2541-2554.	5.4	215
7	Near-Infrared Emitting Radioactive Gold Nanoparticles with Molecular Pharmacokinetics. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10118-10122.	13.8	184
8	Lin28b Is Sufficient to Drive Liver Cancer and Necessary for Its Maintenance in Murine Models. <i>Cancer Cell</i> , 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. <i>Cell Metabolism</i> , 2018, 27, 252-262.e3.	16.2	174
10	A transistor-like pH nanoprobe for tumour detection and image-guided surgery. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	163
11	The Warburg effect and glucose-derived cancer theranostics. <i>Drug Discovery Today</i> , 2017, 22, 1637-1653.	6.4	111
12	Dendrimer Nanoscaffolds for Potential Theranostics of Prostate Cancer with a Focus on Radiochemistry. <i>Molecular Pharmaceutics</i> , 2013, 10, 793-812.	4.6	98
13	The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. <i>Nature Metabolism</i> , 2020, 2, 1401-1412.	11.9	82
14	Renal Clearance and Degradation of Glutathione-Coated Copper Nanoparticles. <i>Bioconjugate Chemistry</i> , 2015, 26, 511-519.	3.6	78
15	Gliomas Interact with Non-glioma Brain Cells via Extracellular Vesicles. <i>Cell Reports</i> , 2020, 30, 2489-2500.e5.	6.4	68
16	In vivo behavior of copper-64-labeled methanephosphonate tetraaza macrocyclic ligands. <i>Journal of Biological Inorganic Chemistry</i> , 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 /Over Lanthanide(III) Ions. <i>Inorganic Chemistry</i> , 2008, 47, 3851-3862.	4.0	65
18	Imparting Multivalency to a Bifunctional Chelator: A Scaffold Design for Targeted PET Imaging Probes. <i>Angewandte Chemie - International Edition</i> , 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 Renal-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 Agents—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 $\alpha_5\beta_1$ -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. <i>PLoS ONE</i> , 2013, 8, e84864.	2.5	23
38	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1204-1207.	5.0	23
39	Bombesin functionalized ⁶⁴ Cu-copper sulfide nanoparticles for targeted imaging of orthotopic prostate cancer. <i>Nanomedicine</i> , 2018, 13, 1695-1705.	3.3	23
40	PET with Non-Standard Nuclides. <i>Current Topics in Medicinal Chemistry</i> , 2010, 10, 1096-1112.	2.1	21
41	A cell permeable peptide analog as a potential-specific PET imaging probe for prostate cancer detection. <i>Amino Acids</i> , 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. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 87, 113-125.	1.9	21
43	Imaging of Actively Proliferating Bacterial Infections by Targeting the Bacterial Metabolic Footprint with ¹¹ C]-Glutamine. <i>ACS Infectious Diseases</i> , 2021, 7, 347-361.	3.8	20
44	Peptoid-based PET imaging of vascular endothelial growth factor receptor (VEGFR) expression. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 1, 65-75.	1.0	20
45	An osteoclast-targeting agent for imaging and therapy of bone metastasis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4789-4793.	2.2	19
46	Analysis of oligo-arginine cell-permeable peptides uptake by prostate cells. <i>Amino Acids</i> , 2012, 42, 1253-1260.	2.7	19
47	Molecular Platform for Design and Synthesis of Targeted Dual-Modality Imaging Probes. <i>Bioconjugate Chemistry</i> , 2015, 26, 549-558.	3.6	18
48	Click-Chemistry Strategy for Labeling Antibodies with Copper-64 via a Cross-Bridged Tetraazamacrocyclic Chelator Scaffold. <i>Bioconjugate Chemistry</i> , 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. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7160.	4.1	18
50	[⁶⁸ Ga]â€”HPâ€”DO3Aâ€”nitroimidazole: a promising agent for PET detection of tumor hypoxia. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 465-472.	0.8	17
51	Interactions of Renalâ€”Clearable Gold Nanoparticles with Tumor Microenvironments: Vasculature and Acidity Effects. <i>Angewandte Chemie</i> , 2017, 129, 4378-4383.	2.0	16
52	A renal cell carcinoma tumorgraft platform to advance precision medicine. <i>Cell Reports</i> , 2021, 37, 110055.	6.4	16
53	Synthesis and evaluation of lanthanide ion DOTAâ€”tetraamide complexes bearing peripheral hydroxyl groups. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 421-438.	2.6	15
54	Trapping Iron Oxide into Hollow Gold Nanoparticles. <i>Nanoscale Research Letters</i> , 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. <i>Biomolecules</i> , 2019, 9, 421.	4.0	15
56	Radiolabeling strategies and pharmacokinetic studies for metal based nanotheranostics. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1671.	6.1	15
57	Combined Tumor Environment Triggered Self-Assembling Peptide Nanofibers and Inducible Multivalent Ligand Display for Cancer Cell Targeting with Enhanced Sensitivity and Specificity. <i>Small</i> , 2020, 16, e2002780.	10.0	13
58	Tumor-specific targeting by Baviximab, a phosphatidylserine-targeting monoclonal antibody with vascular targeting and immune modulating properties, in lung cancer xenografts. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 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. <i>Molecular Pharmaceutics</i> , 2013, 10, 2975-2985.	4.6	11
60	Enantiopure bifunctional chelators for copper radiopharmaceuticals – Does chirality matter in radiotracer design?. <i>European Journal of Medicinal Chemistry</i> , 2014, 80, 308-315.	5.5	11
61	Serial Non-Invasive Assessment of Antibody Induced Nephritis in Mice Using Positron Emission Tomography. <i>PLoS ONE</i> , 2013, 8, e57418.	2.5	11
62	Neuropathological Effects of Chemotherapeutic Drugs. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3038-3048.	3.5	10
63	Validation of SV2A-Targeted PET Imaging for Noninvasive Assessment of Neuroendocrine Differentiation in Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13085.	4.1	10
64	Derivatization of (Δ^{\pm}) dihydrotetrabenazine for copper-64 labeling towards long-lived radiotracers for PET imaging of the vesicular monoamine transporter 2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5663-5665.	2.2	8
65	Dimensionality-Dependent Mechanical Stretch Regulation of Cell Behavior. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17081-17092.	8.0	8
66	A comparative study of trans- and cis-isomers of a bone-seeking agent, DO2A2P. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 571-574.	2.2	4
67	Self-assembly of chimeric peptides toward molecularly defined hexamers with controlled multivalent ligand presentation. <i>Chemical Communications</i> , 2020, 56, 7128-7131.	4.1	4
68	Fifty Years of Radiopharmaceuticals. <i>Journal of Nuclear Medicine Technology</i> , 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. <i>Pediatric Blood and Cancer</i> , 2020, 67, e28639.	1.5	2
71	Selective depletion of radiolabeled HER2-specific antibody for contrast improvement during PET. <i>MAbs</i> , 2021, 13, 1976705.	5.2	2
72	A New F-18 Labeled PET Agent For Imaging Alzheimer's Plaques. , 2011, , .		1

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73	An exploratory study of ⁸⁹ Zr-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 ¹⁸ F-FDG-PET/CT for Imaging Brown or Browning Fat in a Preclinical Model. International Journal of Molecular Sciences, 2022, 23, 4880.	4.1	0