# Xiankai Sun

## List of Publications by Year in descending order



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|---|---|---|---|
| 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 | PSMA-Targeting Imaging and Theranostic Agentsâ€"Current Status and Future Perspective. International Journal of Molecular Sciences, 2022, 23, 1158. | 4.1 | 37 |
| 2 | Dimensionality-Dependent Mechanical Stretch Regulation of Cell Behavior. ACS Applied Materials & Interfaces, 2022, 14, 17081-17092. | 8.0 | 8 |
| 3 | 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 |
| 4 | 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 |
| 5 | Radiolabeling strategies and pharmacokinetic studies for metal based nanotheranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1671. | 6.1 | 15 |
| 6 | Selective depletion of radiolabeled HER2-specific antibody for contrast improvement during PET. MAbs, 2021, 13, 1976705. | 5.2 | 2 |
| 7 | Imaging of Actively Proliferating Bacterial Infections by Targeting the Bacterial Metabolic Footprint with <scp>d</scp>-[5-<sup>11</sup>C]-Glutamine. ACS Infectious Diseases, 2021, 7, 347-361. | 3.8 | 20 |
| 8 | Copper-67 radioimmunotheranostics for simultaneous immunotherapy and immuno-SPECT. Scientific Reports, 2021, 11, 3622. | 3.3 | 34 |
| 9 | Neuropathological Effects of Chemotherapeutic Drugs. ACS Chemical Neuroscience, 2021, 12, 3038-3048. | 3.5 | 10 |
| 10 | A renal cell carcinoma tumorgraft platform to advance precision medicine. Cell Reports, 2021, 37, 110055. | 6.4 | 16 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. Nature Metabolism, 2020, 2, 1401-1412. | 11.9 | 82 |
| 15 | 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 |
| 16 | Self-assembly of chimeric peptides toward molecularly defined hexamers with controlled multivalent ligand presentation. Chemical Communications, 2020, 56, 7128-7131. | 4.1 | 4 |
| 17 | Gliomas Interact with Non-glioma Brain Cells via Extracellular Vesicles. Cell Reports, 2020, 30, 2489-2500.e5. | 6.4 | 68 |
| 18 | Xenosiderophore Utilization Promotes Bacteroides thetaiotaomicron Resilience during Colitis. Cell Host and Microbe, 2020, 27, 376-388.e8. | 11.0 | 61 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Fifty Years of Radiopharmaceuticals. Journal of Nuclear Medicine Technology, 2020, 48, 34S-39S. | 0.8 | 4 |
| 21 | 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 |
| 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 | 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 |
| 24 | 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 |
| 25 | Bombesin functionalized <sup>64</sup>Cu-copper sulfide nanoparticles for targeted imaging of orthotopic prostate cancer. Nanomedicine, 2018, 13, 1695-1705. | 3.3 | 23 |
| 26 | Interactions of Renalâ€€learable Gold Nanoparticles with Tumor Microenvironments: Vasculature and Acidity Effects. Angewandte Chemie - International Edition, 2017, 56, 4314-4319. | 13.8 | 51 |
| 27 | Interactions of Renalâ€€learable Gold Nanoparticles with Tumor Microenvironments: Vasculature and Acidity Effects. Angewandte Chemie, 2017, 129, 4378-4383. | 2.0 | 16 |
| 28 | Control of cerebral ischemia with magnetic nanoparticles. Nature Methods, 2017, 14, 160-166. | 19.0 | 43 |
| 29 | A transistor-like pH nanoprobe for tumour detection and image-guided surgery. Nature Biomedical Engineering, 2017, 1, . | 22.5 | 163 |
| 30 | The Warburg effect and glucose-derived cancer theranostics. Drug Discovery Today, 2017, 22, 1637-1653. | 6.4 | 111 |
| 31 | Feasibility study of direct beta particle detection using gas electron multiplier. , 2016, , . | | 0 |
| 32 | Theranostic Nanoseeds for Efficacious Internal Radiation Therapy of Unresectable Solid Tumors. Scientific Reports, 2016, 6, 20614. | 3.3 | 59 |
| 33 | Targeting renal cell carcinoma with a HIF-2 antagonist. Nature, 2016, 539, 112-117. | 27.8 | 521 |
| 34 | Design of a Small-Molecule Drug Conjugate for Prostate Cancer Targeted Theranostics. Bioconjugate Chemistry, 2016, 27, 1681-1689. | 3.6 | 39 |
| 35 | Spatial denoising methods for low count functional images. , 2015, , . | | 0 |
| 36 | [<sup>68</sup>Ga]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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Renal Clearance and Degradation of Glutathione-Coated Copper Nanoparticles. Bioconjugate Chemistry, 2015, 26, 511-519. | 3.6 | 78 |
| 40 | Molecular Platform for Design and Synthesis of Targeted Dual-Modality Imaging Probes. Bioconjugate Chemistry, 2015, 26, 549-558. | 3.6 | 18 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Dimerization of a Phage-Display Selected Peptide for Imaging of Î±<sub>v</sub>Î²<sub>6</sub>- Integrin: Two Approaches to the Multivalent Effect. Theranostics, 2014, 4, 745-760. | 10.0 | 32 |
| 45 | 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 |
| 46 | 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 |
| 47 | Glutathione-Coated Luminescent Gold Nanoparticles: A Surface Ligand for Minimizing Serum Protein Adsorption. ACS Applied Materials & Interfaces, 2014, 6, 11829-11833. | 8.0 | 47 |
| 48 | Lin28b Is Sufficient to Drive Liver Cancer and Necessary for Its Maintenance in Murine Models. Cancer Cell, 2014, 26, 248-261. | 16.8 | 176 |
| 49 | Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. Journal of Nuclear Medicine, 2014, 55, 1204-1207. | 5.0 | 23 |
| 50 | Dendrimer Nanoscaffolds for Potential Theranostics of Prostate Cancer with a Focus on Radiochemistry. Molecular Pharmaceutics, 2013, 10, 793-812. | 4.6 | 98 |
| 51 | 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 |
| 52 | Acceleration of the acquisition of imaging probes using spatiotemporal processing. , 2013, , . | | 3 |
| 53 | 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 |
| 54 | Serial Non-Invasive Assessment of Antibody Induced Nephritis in Mice Using Positron Emission Tomography. PLoS ONE, 2013, 8, e57418. | 2.5 | 11 |

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|---|---|---|---|
| 55 | Nearâ€Infrared Emitting Radioactive Gold Nanoparticles with Molecular Pharmacokinetics. Angewandte Chemie - International Edition, 2012, 51, 10118-10122. | 13.8 | 184 |
| 56 | Analysis of oligo-arginine cell-permeable peptides uptake by prostate cells. Amino Acids, 2012, 42, 1253-1260. | 2.7 | 19 |
| 57 | Trapping Iron Oxide into Hollow Gold Nanoparticles. Nanoscale Research Letters, 2011, 6, 43. | 5.7 | 15 |
| 58 | 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 |
| 59 | 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 |
| 60 | Luminescent Gold Nanoparticles with Efficient Renal Clearance. Angewandte Chemie - International Edition, 2011, 50, 3168-3172. | 13.8 | 401 |
| 61 | A New F-18 Labeled PET Agent For Imaging Alzheimerâ€™s Plaques. , 2011, , . | | 1 |
| 62 | Recent Advances in Copper Radiopharmaceuticals. Current Radiopharmaceuticals, 2011, 4, 109-121. | 0.8 | 25 |
| 63 | 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 |
| 64 | PET with Non-Standard Nuclides. Current Topics in Medicinal Chemistry, 2010, 10, 1096-1112. | 2.1 | 21 |
| 65 | Attention-Deficit/Hyperactivity Phenotype in Mice Lacking the Cyclin-Dependent Kinase 5 Cofactor p35. Biological Psychiatry, 2010, 68, 1163-1171. | 1.3 | 56 |
| 66 | 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 |
| 67 | 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 |
| 68 | An osteoclast-targeting agent for imaging and therapy of bone metastasis. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4789-4793. | 2.2 | 19 |
| 69 | Synthesis, Potentiometric, Kinetic, and NMR Studies of 1,4,7,10-Tetraazacyclododecane-1,7-bis(acetic) Tj ETQq1 1 0.784314 rgBT /Ov<br>Lanthanide(III) Ions. Inorganic Chemistry, 2008, 47, 3851-3862. | 4.0 | 65 |
| 70 | 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 |
| 71 | MicroPET Imaging of MCF-7 Tumors in Mice via unr mRNA-Targeted Peptide Nucleic Acids. Bioconjugate Chemistry, 2005, 16, 294-305. | 3.6 | 50 |
| 72 | 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 |

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|---|---|---|---|
| 73 | Production and Applications of Copper-64 Radiopharmaceuticals. Methods in Enzymology, 2004, 386, 237-261. | 1.0 | 49 |
| 74 | 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 |
| 75 | In vivo evaluation of copper-64-labeled monooxo-tetraazamacrocyclic ligands. Nuclear Medicine and Biology, 2004, 31, 1051-1059. | 0.6 | 23 |
| 76 | In vivo behavior of copper-64-labeled methanephosphonate tetraaza macrocyclic ligands. Journal of Biological Inorganic Chemistry, 2003, 8, 217-225. | 2.6 | 65 |
| 77 | Radiolabeling and In Vivo Behavior of Copper-64-Labeled Cross-Bridged Cyclam Ligands. Journal of Medicinal Chemistry, 2002, 45, 469-477. | 6.4 | 226 |