

CURRICULUM VITAE

Xiaoyuan (Shawn) Chen, PhD, MAE, FSNAS, FEurASc, FAIMBE, FSNMMI

Contact Address: Shandong Provincial Key Laboratory of Precision Oncology, Shandong Cancer Hospital and Institute, Shandong First Medical University and Shandong Academy of Medical Sciences, Jinan, 250117, China.

Biography:

Prof. Xiaoyuan (Shawn) Chen is Professor of Shandong Cancer Hospital and Institute, Shandong First Medical University and Shandong Academy of Medical Sciences. He is the founding editor and Editor-in-Chief of journal *Theranostics* (IF 13.3). He was elected as AIMBE Fellow (2017), SNMMI Fellow (2020), Fellow of European Academy of Sciences (2024), Member of Academia Europaea (MAE, 2024), and Singapore National Academy of Science (SNAS, 2024), received NUS School of Medicine Best Researcher of the Year (2025), JBN Trailblazer Award (2023), SNMMI Michael J. Welch Award (2019), ACS Bioconjugate Chemistry Lecturer Award (2016), NIH Director's Award (2014), and NIBIB Mentor Award (2012). He became a member of the Advanced Materials Hall of Fame (2023). He is also the Past President of Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI), Past President of the Radiopharmaceutical Science Council (RPSC), Society of Nuclear Medicine and Molecular Imaging (SNMMI), and Past President of the Chinese American Society of Nanomedicine and Nanobiotechnology (CASNN). Prof. Chen has published over 1200 papers and numerous books (total citations > 180,000, H index 219 based on Google scholar). His research is largely focused on the development of theranostics (combination of diagnostics and therapeutics, e.g. radiotheranostics, nanotheranostics, immunotheranostics, magnetotheranostics, phototheranostics, etc.) that can be clinically translatable.

EDUCATION

Colleges and Universities Attended:

Nanjing University, China	B.Sc.	1993	Chemistry
Nanjing University, China	M.Sc.	1996	Chemistry
University of Idaho (supervisor: Chien M. Wai)	Ph.D.	1999	Chemistry

Postdoctoral Training

Dept of Chemistry, Syracuse University (supervisor: Jon Zubieta)	1999-2000
Dept of Radiology, Washington University in St. Louis (supervisor: Mike Welch)	2000-2001

EMPLOYMENT HISTORY

Professor, Shandong Cancer Hospital and Institute	1/2026 - present
National University of Singapore	
Nasrat Muzayyin Chair Professor in Medicine and Technology	11/20-12/2025
National Institutes of Health	
Senior Investigator and Laboratory Chief	08/09-07/20
Stanford University	
Associate Professor of Radiology	09/08-07/09
Stanford University	
Assistant Professor of Radiology	05/04-08/08
University of Southern California	

Assistant Professor of Radiology Research

02/02-04/04

PUBLIC AND PROFESSIONAL SERVICECommittee Member:

Director, Nanomedicine Translational Research Program, NUS School of Medicine
 Research Director, Clinical Imaging Research Center, NUS School of Medicine
 Research Director, Institute of Molecular and Cell Biology, A*STAR
 Chair, Biomedical Imaging and Instrumentation I Committee, AIMBE
 Search committee for SoM (Radiology, Pathology, Surgery) and CDE (ChBE, BME)
 Promotion and Tenure Committee for SoM and CDE
 PET Users Committee (NIH, until July 2020)
 MRI Research Facility Steering Committee (NIH, until July 2020)
 CNRM translational imaging facility steering committee (DOD/NIH, until July 2020)
 NIH Earl Stadtman Tenure Track PI Search Committee (until July 2020)
 Board Member (2011-2013), the Radiopharmaceutical Science Council, Society of Nuclear
 Medicine and Molecular Imaging (SNMMI)
 President (2013-2015), Chinese American Society of Nuclear Medicine and Molecular Imaging
 Immediate-Past President (2015-2017), CASNMMI
 Vice-President Elect (2013-2014), Radiopharmaceutical Science Council (RPSC), Society of
 Nuclear Medicine and Molecular Imaging (SNMMI)
 Vice President (2014-2015), RPSC, SNMMI
 President (2015-2016), RPSC, SNMMI
 Immediate Past President (2016-2017), RPSC, SNMMI
 President (2015-2017), Chinese American Society of Nanomedicine and Nanobiotechnology
 (CASNN)

Affiliated Departments and Programs:

Joint appointment: Depts of Diagnostic Radiology, Surgery (School of Medicine), Chemical and
 Biomolecular Engineering, Biomedical Engineering (College of Design and Engineering)
 Research Director, Clinical Imaging Research Center (CIRC), NUS
 Director, Nanomedicine Translational Research Program, YYL School of Medicine, NUS

Editorial Board:

Theranostics (Founding Editor-in-Chief, IF = 13.3)
 Accounts of Chemical Research (IF = 24.466)
 ACS Nano (IF = 18.027)
 Bioconjugate Chemistry (IF = 6.069)
 Bioengineering and Translational Medicine (IF = 10.684)
 Journal of Nuclear Medicine (IF = 11.082)
 European Journal of Nuclear Medicine and Molecular Imaging (IF = 10.057)

Book Editor:

- Recent Advances of Bioconjugate Chemistry in Molecular Imaging (Publisher: Research Signpost) ISBN 978-81-308-0210-7
- Nanoplatfrom-Based Molecular Imaging (Publisher: John Wiley & Sons) ISBN 978-04-705-2115-1
- Molecular Imaging Probes for Cancer Research (Publisher: World Scientific Publishing / Imperial College Press) ISBN 978-98-142-9367-9

- Cancer Theranostics (co-editor: Stephen Wong; Publisher: Elsevier) ISBN 978-0-12-407722-5.
- Cancer Theranostics (2nd Edition) (Jingjing Zhang, Stephen T. Wong, Xiaoyuan Chen)



Journal Guest Editor:

- Frontiers in Biosciences (SI: Molecular Imaging)
- Eur J Nucl Med Mol Imaging (SI: Imaging Angiogenesis. Co-editor: Ambros Beer)
- Amino Acids (SI: Peptide probes for molecular imaging)
- Curr Top Med Chem (SI: The Medicinal Chemistry of Targeted Tumor Imaging)
- Q J Nucl Med Mol Imaging (SI: Molecular Imaging of Tumor Environment. Co-editor: Silvana Del Vecchio)
- Acc Chem Res (SI: Theranostic Nanomedicine. Co-editors: Sanjiv S. Gambhir; Jinwoo Cheon)
- Theranostics (SI: Integrin Targeted Imaging and Therapy)
- Bioconjugate Chem (SI: Antibody-Drug Conjugate)
- Advanced Drug Delivery Reviews (SI: Peptides and Peptide-Drug Conjugates)
- Advanced Drug Delivery Reviews (SI: Skin-Associated Drug Delivery)
- Theranostics (SI: Progress in Critical Reviews of Immunotheranostics)
- Theranostics (SI: Progress in Gene Editing Nanotheranostics)
- Theranostics (SI: The EPR effect and beyond: Strategies to improve tumor targeting and nanomedicine efficacy)
- Theranostics (SI: Progress in Supramolecular Nanotheranostics)
- Acc Chem Res (SI: Chemistry in Immunotheranostics)

Conference Symposium Organizer

- 11th International Congress on Amino Acids, Peptides and Proteins, August 2009, Vienna, Austria (Symposium: Peptide Probes for Molecular Imaging)
- NIH Research Festival, October 5-6, 2010 (Symposium: Molecular Imaging: Biology, Physics and Chemistry)
- MRS 2012 Spring Meeting, San Francisco, CA (Symposium: Nanomedicine in Molecular Imaging and Therapy)
- 13th SCBA International Conference, Guangzhou, China July 25-29, 2011 (Symposium: Molecular Imaging in Biology and Medicine)
- 14th SCBA International Conference, Xi'an, China July 18-20, 2013 (Symposium: Nanotheranostics)
- 2014 International Symposium for Translational Theranostics, Shenzhen, China, May 26-27, 2014

- MRS 2014 Fall Meeting, Boston, MA (Symposium: Medical Applications of Noble Metal Nanoparticles (NMNPs))
- MRS 2016 Fall Meeting, Boston, MA (Symposium: Spatiotemporally and Morphologically-Controlled Biomaterials for Medical Applications)
- MRS 2019 Spring Meeting, Phoenix, AZ (Symposium: Progress in Supramolecular Nanotheranostics)
- 9th Nano Today Conference Chair (Singapore, 2025)

Grant Review

- Reviewer for NMRC, MOE, NRF (Singapore)
- Reviewer for NIH study sections (GDD (charter member), RTB, MEDI, CMIP, NANO, SBIR)
- Reviewer for DOD CDMRP (BCRP, PCRP, OCRP)
- Reviewer for National Science Foundation of China (NSFC)
- Reviewer for National Research Council (Canada), European Research Council, Innovation and Technology Commission (ITC, Hong Kong)...

POST-DEGREE HONORS AND AWARDS

- NUS School of Medicine Best Researcher of the Year, 2025
- Fellow, Singapore National Academy of Science (SNAS), 2024
- Member, Academia Europaea (MAE), 2024
- Fellow, European Academy of Sciences (EurASc), 2024
- Journal of Biomedical Nanotechnology (JBN) Trailblazer Award, 2023
- Advanced Materials Hall of Fame, 2023
- SNMMI Fellow, 2020
- Michael J. Welch, PhD Award, Society of Nuclear Medicine and Molecular Imaging, 2019
- *ACS Nano*, *Bioconjug Chem*, and *Mol Pharm* Selected Highly Prolific Authors, 2017
- AIMBE Fellow, 2017
- Clarivate Analytics highly cited researcher, 2015-2025
- ACS Bioconjugate Chemistry Lectureship Award, 2016
- NIH Director's Award, 2014
- NIBIB Mentor Award, 2012

SOCIETY MEMBERSHIPS

Society of Nuclear Medicine (SNM)	2000-
American Chemical Society (ACS)	1996-
Society of Radiopharmaceutical Sciences	2008-

Scholarly Publications (in chronological order, Total Citations >180,000, **H-index = 219**)

2026 (1226-1233)

1233. Liu R, Li S, Gao X, Zou Q, Shu G, Zhang C, Pan J, **Chen X**, Sun SK.
[Hypersensitive detection of single millimeter vascular emboli from adhesive in vivo.](#) Nat Commun. 2026 Feb 10. doi: 10.1038/s41467-026-68534-w.

1232. Chen G, Li X, Huang Y, Zheng C, Fang H, Zhang Q, Liu K, Wu K, Zhu Q, Guo C, Zhu H, Dai R, He Y, Zhu Q, Zhou W, Yang Y, Li Z, Qu K, Li B, Xiao S, Tian S, Xing B, **Chen X**, Wang AZ, Xiong Y, Min Y.

[X-ray activated platinum complex induces DNA damage and enhances cancer immunotherapy through abscopal effect.](#)

Nat Biomed Eng. 2026 Feb 9. doi: 10.1038/s41551-026-01612-y.

1231. Li S, Wu H, Deng J, Sun Q, Zhang Y, Zhang C, Pan J, Liu D, Zhang X, Zou Q, **Chen X**, Sun SK. [Gram-Scale Synthesis of Hafnium-Rich Carbon Dots for Preclinical Computed Tomography Imaging Across Various Systems.](#)

Adv Sci (Weinh). 2026 Jan 31:e17986.

1230. Li B, Wang J, Peng Y, Liu C, Ming Y, Yang B, He D, Lai W, Guo L, Zhao M, **Chen X**. [BODIPY-Doped Nanocarrier Engineering \(BONE\) Improves Bone Marrow mRNA Delivery by NIR-II Bioimaging Guided Screening.](#)

J Am Chem Soc. 2026 Jan 30. doi: 10.1021/jacs.5c14271.

1229. Feng Z, Chu L, Li Q, Zhou J, Wu P, Zhang X, Pan Y, Zou J, Chen Q, Xu Z, Yan L, Huang Y, Li X, Wang Z, **Chen X**.

[Engineered VPg saRNA achieves cap-independent, low-immunogenic and precise encoding of therapeutic proteins in vivo.](#)

Nat Commun. 2026 Jan 27. doi: 10.1038/s41467-026-68364-w.

1228. Feng Z, Pan Y, Zhou J, Chu L, Li Q, Zhang X, Wu P, Xu Z, Huang Y, Zou J, Li X, **Chen X**, Wang Z.

[Tmem110 regulates the conformation of TRPML1 to maintain endolysosomal homeostasis and prevent mitochondrial DNA leakage and pathological self-DNA processing.](#)

Nat Commun. 2026 Jan 15. doi: 10.1038/s41467-026-68382-8.

1227. Cao Y, Wang J, Wang H, Sun X, Fang F, Li S, Liu J, Shi C, Qi P, Zou J, **Chen X**, Cai K.

[Targeting Peptostreptococcus anaerobius with an Iron-Based Nanozyme Reverses Ferroptosis Resistance and Enhances Antitumor Immunity in Colorectal Cancer.](#)

Adv Sci (Weinh). 2026 Jan 12:e16272.

1226. Zhang L, Wang M, Wang B, Zhao J, Sun B, Yu Y, Han K, Wang X, Zhang J, Wei M, Deng J, Li J, Li M, Ke Y, Jiang H, Yan H, **Chen X**, Peng X, Bai Y, Wang W.

[Side-Chain Engineering Guides the Design of \$\beta\$ -Sheet Inhibitor to Anchor Protein-Protein Interaction Interfaces.](#)

Angew Chem Int Ed Engl. 2026 Jan 7:e21473.

2025 (1153-1225)

1225. Chen X, Zhou D, Wang J, Liu H, Zhang H, Geng Z, Wang G, Shen H, Zhang Y, Li Z, Wang D, Ren X, Wang X, Xu K, He C, Bai L, Wei Y, **Chen X**, Su J.

[Viral glycoprotein-mimicking peptide-functionalized micelles promote drug delivery to diseased chondrocytes for osteoarthritis alleviation.](#)

Nat Nanotechnol. 2025 Dec 29. doi: 10.1038/s41565-025-02082-0.

1224. Cui T, Chen S, Liu S, Niu X, Wang J, Ao R, Cai H, Huang H, Yu M, Peng S, **Chen X**, Lin L. [A biohybrid chiral hydrogel enhances preclinical postoperative glioblastoma therapy by multi-pronged inhibition of tumour stemness.](#)

Nat Nanotechnol. 2025 Dec 26. doi: 10.1038/s41565-025-02064-2.

1223. Sang Y, Zhang Y, Chen SY, Zang QX, Wang ZY, **Chen X**, Zang SQ. [recision-Architected Drug-Stabilized Cu₅ Clusters Mediate Multimodal Therapeutic Intervention in Colitis.](#)

ACS Nano. 2025 Dec 22. doi: 10.1021/acsnano.5c12046.

1222. Zhang X, Ning S, Fang F, Zhou C, Yang Z, Cao L, Wang K, Feng Z, Li B, Luo D, Xu X, Liu Z, **Chen X**, Yu Z. [Leveraging Cisplatin-Derived Prodrugs as Helper Lipids in LNPs to Boost the Efficacy of Cancer Chemoimmunotherapy.](#)

ACS Nano. 2025 Dec 22. doi: 10.1021/acsnano.5c18243.

1221. Cui X, **Chen X**.

[Editorial: Novel ultrasound-based strategies for precision therapeutics and visualization.](#)

Adv Drug Deliv Rev. 2025 Dec 16:115763.

1220. Mu J, Song J, **Chen X**.

[Innovations in Radiotherapeutic Materials for Personalized Oncology.](#)

ACS Appl Mater Interfaces. 2025 Dec 17;17(50):67399-67400.

1219. Shu G, Lang M, Deng J, Zhang Y, Cheng R, Pan J, Wang X, Liu D, Zhang C, **Chen X**, Sun SK. [An Ultralong-Circulating Tantalum-Based Computed Tomography Contrast Agent for Vascular Imaging in Large Animals.](#)

ACS Nano. 2025 Dec 17. doi: 10.1021/acsnano.5c13773.

1218. Wei Z, Zhen W, **Chen X**, Zhang J.

[Tumor targeted radionuclide-nanomedicine for clinical translation: From carrier innovation to precision therapy.](#)

J Control Release. 2025 Dec 12;390:114543.

1217. **Chen X**.

[AT-17 redefines local anesthetics by targeting mitochondrial apoptosis.](#)

Acta Pharm Sin B. 2025 Nov;15(11):6087-6088.

1216. Yang X, Wang Y, Zhou J, Li S, Ye J, Sun Y, He M, Fan K, Chen Z, Tian F, Zhao B, Zhang J, Xie J, Xiao Z, **Chen X**, Ju S.

[Engineering a spatiotemporal macrophage circuit via STING phase separation to override immune suppression in pancreatic cancer.](#)

Proc Natl Acad Sci U S A. 2025 Nov 25;122(47):e2504718122.

1215. Yu X, Qi S, Zhang W, Li H, Cao F, Wang Y, Peng K, Lin X, **Chen X**, Yu G.
[Lipid Nanoparticle Chaperone with Redox-Adaptive Intracellular Microenvironment Modulation Potentiates the Potency of mRNA Vaccines.](#)
J Am Chem Soc. 2025 Nov 20. doi: 10.1021/jacs.5c10972.
1214. Zhang C, Zhao WH, Zuo D, Zhou T, Hou W, Wang L, Shi S, Yang Y, Liu Y, Sun SK, Ren L, Ye Z, Liu D, Li D, **Chen X**, Hao J.
[AI-Guided SERS Defines a Pan-Cancer Diagnostic Biomarker.](#)
Adv Sci (Weinh). 2025 Nov 16:e16268.
1213. Chen X, Lu L, Liu Y, Liang Z, Li J, Shao Z, Tang Y, Zou J, Li S, **Chen X**.
[CD169⁺ Macrophage-Targeted Immunomodulator to Restore Phagocytic Function and Enhance Antigen Presentation for Lymphatic Metastasis Eradication.](#)
Adv Sci (Weinh). 2025 Nov 16:e14386.
1212. Zhang M, Xu J, Yang Z, Ding L, Han H, Ma M, Ee PLR, Yu G, Tang W, **Chen X**.
[Glycolysis-inhibiting tumor cell-derived microparticles to enhance immunogenic cell death for synergistic cancer immunotherapy.](#)
Biomaterials. 2025 Nov 2;328:123832.
1211. Zhang M, Wang Y, Tang X, Zhang W, Mao Z, Yu Y, Yang X, Yu G, **Chen X**.
[Mineralized Supramolecular Microspheres with Immunoregulating Functions for Transarterial Chemoembolization Immunotherapy of Hepatocellular Carcinoma.](#)
Small Methods. 2025 Oct 24:e00857.
1210. Tang Y, Luo Z, Ma Z, Han L, Zhou Y, Liang T, Yang K, Zhao L, **Chen X**, Zhang P.
[Condensate nanovaccine adjuvants augment CD8⁺ T-Cell-dependent antitumor immunity through mtDNA leakage-triggered cGAS-STING axis activation.](#)
Signal Transduct Target Ther. 2025 Oct 21;10(1):349.
1209. Yang L, Li J, Ling S, Du F, Liao W, Li R, Li Y, Zhou Z, Jin Z, **Chen X**, Zhao Q.
[NIR-II Dual-Modal Photoacoustic and OCT/OCTA Contrast Mechanisms Imaging Microenvironment Responses for Precision-Guiding Tumor Photothermal Theranostics.](#)
Small Methods. 2025 Oct 13:e00955.
1208. Qi L, Zhang W, Shi C, Feng C, Liu Z, Li Z, Fang F, **Chen X**.
[Dual Targeting of m⁷G tRNA Modification and Histone Acetylation using Carrier-Free Nano-Epidrugs to Evoke Osteosarcoma Chemosensitization.](#)
Adv Mater. 2025 Oct 10:e05951.
1207. [Programmable Bimetallic MOF Nanozyme Composite with Microenvironment-Adaptive Cascade Catalysis for Wearable Glucose Biosensing and Accelerated Diabetic Wound Healing.](#)
Yu K, Li X, Zhan S, Chai H, Cao X, Cao F, Guan J, Xu Q, Gao X, Qu L, Zhang X, Zhang G, **Chen X**.
Anal Chem. 2025 Oct 7;97(39):21668-21678.
1206. Shen L, Yu J, Chen W, Bi Y, Yang Z, Lu C, Jiang C, Yang Y, Chen M, Zou J, Lv L, **Chen X**, Ji J.

[PPP1R3B Suppresses Atherosclerosis by Promoting the M2 Polarization of Macrophages Through Glycogen Metabolic Reprogramming.](#)

Adv Sci (Weinh). 2025 Nov;12(41):e06345.

1205. Li J, Wen X, Reszegi RR, Kamalrhaj H, Parak WJ, **Chen X**, Zhang J.

[Advances in radiopharmaceuticals for cancer radiotheranostics: CCK2R targeting as a paradigm for translational innovation.](#)

Cancer Commun (Lond). 2025 Nov;45(11):1431-1455.

1204. **Chen X**.

[From Quantum Dots to Cancer Nanotheranostics.](#)

Nano Lett. 2025 Sep 9. doi: 10.1021/acs.nanolett.5c03619.

1203. Suo M, Wang Z, Zhang S, Tang W, Liang D, **Chen X**, Ning S.

[Bionic nanomedicines for microwave-triggered cuproptosis to enhance cancer immunotherapy.](#)

Nanoscale Horiz. 2025 Sep 9. doi: 10.1039/d5nh00425j.

1202. Wu Q, Yao X, Duan X, **Chen X**, Zhang J.

[Nanomedicine Reimagined: Translational Strategies for Precision Tumor Theranostics.](#)

Adv Mater. 2025 Sep 6:e10293.

1201. Zhang Y, Zhang Y, Liang R, Zou J, Pei R, Chen X.

[Targeted ROS Scavenging for Disease Therapies Using Nanomaterials](#)

Adv Mater. 2025 Aug 22:e04435.

1200. Liu Y, Zhang X, **Chen X**, Zhang F.

[Proteolysis-targeting chimera \(PROTAC\) nanomedicines toward cancer treatment: From synthesis to therapeutic delivery.](#)

Biomaterials. 2025 Aug 8;325:123621.

1199. Wang J, Wang F, Jiang Y, Bai L, **Chen X**, Su J.

[Organoid-driven nanomedicine platform development.](#)

Biomaterials. 2025 Aug 7;325:123611.

1198. Feng Y, Tai W, Huang P, Qi S, Yu X, Li M, Li M, Zhang M, Cao F, Gao X, Yang K, Bai B, Lei J, Cheng M, Li Y, Cheng G, **Chen X**, Yu G.

[Albumin-recruiting lipid nanoparticle potentiates the safety and efficacy of mRNA vaccines by avoiding liver accumulation.](#)

Nat Mater. 2025 Aug 1. doi: 10.1038/s41563-025-02284-w.

1197. Deng C, Yu L, Zhao X, Chen Y, Mei J, Wei J, **Chen X**, Lei G, Zeng C.

[Genetically engineered chondrocyte-mimetic nanoplatform attenuates osteoarthritis by blocking IL-1 \$\beta\$ and restoring sirtuin-3.](#)

Sci Adv. 2025 Jul 25;11(30):eadv4238.

1196. Fan Q, Wang M, Lin J, Huang Y, Yang J, Zhu J, Ren B, Sun L, Li Z, Liu A, Xiong W, Wei Z, Huang L, Yan C, Wen G, Chen Z, **Chen X**, Shen Z.
[A Mesoporous Calcium Peroxide Nanocuboid with High Tumor Accumulation Across Biological Barriers for High Efficacy Tumor Therapy.](#)
Adv Sci (Weinh). 2025 Jul 20:e10778. doi: 10.1002/advs.202510778.
1195. Zhao C, Pan Y, Cao L, Tang Y, **Chen X**, Zhao X, Rao L.
[Metal-Phenolic Outer Membrane Vesicles for Cancer Radioimmunotherapy.](#)
J Am Chem Soc. 2025 Jul 30;147(30):26195-26207.
1194. Shen L, Jiang C, Song J, Bi Y, Chen W, Lu C, Chen M, Lv L, Yu R, Zou J, Zhao Z, **Chen X**, Ji J.
[Microenvironment responsive nanoplatform for targeted removal of cholesterol and reshaping inflammatory microenvironment in atherosclerotic plaques.](#)
J Control Release. 2025 Sep 10;385:114000.
1193. Bai Q, Shao X, Xia Q, Yang S, Gao Y, Sun K, Li J, Wang X, Tian Z, **Chen X**, Zhao J, Diao J, Chen Q.
[Optogenetic engineering of lipid droplet spatial organization for tumor suppression.](#)
Trends Biotechnol. 2025 Jul 1:S0167-7799(25)00217-3.
1192. Zeng Q, Gong Y, Jiao W, Xu J, Chen X, Xu R, Liu Y, Liang X, Li G, Liu J, He L, Li W, Zhang X, **Chen X**, Chen W.
[Smart ultra-long-lasting sequentially triggerable and artfully implantable nozzle system for on-demand drug delivery for chronotherapy.](#)
Sci Adv. 2025 Jun 27;11(26):eadv8734.
1191. Mi Z, Chen J, Zhang Z, Liu J, Lei Y, Tan H, Li W, **Chen X**, Rong P.
[Synthetic biology-driven induction of mature TLS formation enhances antitumor immunity in colorectal cancer.](#)
Sci Transl Med. 2025 Jun 18;17(803):eado8395.
1190. You Q, Wu G, Li H, Liu J, Cao F, Ding L, Liang F, Zhou B, Ma L, Zhu L, Wang C, Yang Y, **Chen X**.
[A nanovaccine targeting cancer stem cells and bulk cancer cells for postoperative cancer immunotherapy.](#)
Nat Nanotechnol. 2025 Jun 16. doi: 10.1038/s41565-025-01952-x.
1189. Liu J, **Chen X**.
[Biomaterial tablets for long-acting IL-2 immunotherapy.](#)
Nat Cancer. 2025 Jun 10. doi: 10.1038/s43018-025-00951-0.
1188. Zhang X, Song Z, Zhang X, Zou J, Yu G, **Chen X**, Wang S.
[Unconventional PROTACs for Targeted Protein Degradation in Cancer Therapy.](#)
Angew Chem Int Ed Engl. 2025 Jul 28;64(31):e202507702.
1187. Wei Y, Geng X, You Q, Zhang Y, Cao F, Narayanan G, Nguyen T, **Chen X**, Zhang J, Ye L.

[Human induced pluripotent stem cell derived nanovesicles for cardiomyocyte protection and proliferation.](#)

Bioact Mater. 2025 May 2;50:585-602.

1186. Wang R, Xi T, Li K, Wang C, Gao X, Yang H, Zou J, **Chen X**, Sun L.

[Self-Assembled Fluorescent Peptide Nanoprobes for Disease Diagnosis.](#)

Small Methods. 2025 Jun 1:e2500518.

1185. Chen X, Lu L, Liang Z, Yu B, Shao Z, Li J, Cen Y, Liu Y, Li S, **Chen X**.

[Self-Promoting Targeted Delivery of Epigenetic Immunostimulants to Activate Breast Cancer Immunity via HDACs Downregulation and PD-L1 Upregulation.](#)

Angew Chem Int Ed Engl. 2025 May 27:e202502120.

1184. Zhao X, Han J, Liu J, Wang ZY, **Chen X**, Zang SQ.

[Au₆Cu₂ Clusters with High Electron Affinity and Oxygen-Mimetic Properties for Hypoxic Tumor Radiosensitization.](#)

Angew Chem Int Ed Engl. 2025 May 19:e202504524.

1183. Fang G, Liu D, Bai Q, Shao X, Liu Z, Yao Q, Yuan Y, Zeng K, Chen X, **Chen X**, Chen Q.

[An Environmentally Responsive Molecular Engineering Framework for Subcellular Drug Translocalization.](#)

Adv Mater. 2025 May 13:e2503220.

1182. Li Z, Ren G, Wang X, Li X, Ding L, Zhu J, Zhang Y, Zhang C, Zou J, **Chen X**.

[Tumor microenvironment responsive nano-PROTAC for BRD4 degradation enhanced cancer photo-immunotherapy.](#)

Biomaterials. 2025 May 7;322:123387.

1181. Yu B, Zhang W, Shao Z, Chen X, Cen Y, Liu Y, Chen Y, Li X, Liang Z, Li S, **Chen X**.

[Self-promoted tumor-targeting nanomedicine activates STING-driven antitumor immunity via photodynamic DNA damage and PARP inhibition.](#)

Chem Sci. 2025 May 1. doi: 10.1039/d5sc01953b.

1180. Wang R, Zhu J, Zhou J, Li J, Wang M, Wu Y, Zhao D, **Chen X**, **Chen X**, Wang Y, Zou J.

[Bioinspired Claw-Engaged Adhesive Microparticles Armed with \$\gamma\$ GC Alleviate Ulcerative Colitis via Targeted Suppression of Macrophage Ferroptosis.](#)

Adv Sci (Weinh). 2025 Apr 29:e2503903. doi: 10.1002/advs.202503903.

1179. Huang P, Liu Y, Zhao C, Wang C, Wang L, Luo M, Wang W, Shan W, Liu X, Li B, Wang Z, Deng H, **Chen X**.

[Permanent Efferocytosis Prevention by Terminating MerTK Recycle on Tumor-Associated Macrophages for Cancer Immunotherapy.](#)

J Am Chem Soc. 2025 Apr 28. doi: 10.1021/jacs.5c05640.

1178. Hou G, Cheng X, Jiang Y, Yang Y, Chen B, Huang Z, Li Z, Zhou A, **Chen X**, Zheng R, Zhao H, Zhang J, Wang X.

[Comparison of A118F-NOTA-FAPI-74 and 18F-FDG PET/CT in the Evaluation and Staging of Hepatobiliary Malignancies: A Single-center Prospective Study.](#)

Clin Nucl Med. 2025 Apr 24. doi: 10.1097/RLU.0000000000005889.

1177. Zhu Y, Wang D, Du C, Wu T, Wei P, Zheng H, Li G, Zheng S, Su L, Yan L, Hu Y, Wang H, Lin L, Ding C, **Chen X**.

[Ruthenium Single-Atom Nanozyme Driven Sonosensitizer with Oxygen Vacancies Enhances Electron-Hole Separation Efficacy and Remodels Tumor Microenvironment for Sonodynamic-Amplified Ferroptosis.](#)

Adv Sci (Weinh). 2025 Apr 25:e2416997. doi: 10.1002/advs.202416997.

1176. Zhang D, Chen Q, Zhang J, Xing X, Zhou Y, Ou X, Dai S, Chen Q, Liu X, **Chen X**, Zeng Y. [Amplifying X-ray-Induced Charge Transfer Facilitates Direct Sensitization of Photosensitizers in Radiotherapy.](#)

ACS Nano. 2025 Apr 25. doi: 10.1021/acsnano.5c01506.

1175. Zhen W, Zhao T, **Chen X**, Zhang J.

[Unlocking the Potential of Disulfidptosis: Nanotechnology-Driven Strategies for Advanced Cancer Therapy.](#)

Small. 2025 Apr 24:e2500880. doi: 10.1002/smll.202500880.

1174. Zhou P, Huang R, Cheng Y, Yang Y, Qian D, Ming X, Wang AZ, **Chen X**, Min Y.

[Nanotherapeutic Wee1 Inhibition Sensitizes Tumor Ferroptosis to Promote Cancer Immunotherapy and Abscopal Effect.](#)

ACS Nano. 2025 Apr 22. doi: 10.1021/acsnano.4c13218.

1173. Hou L, Wang Y, Fu H, Chen L, Yu C, **Chen X**, Zhang J.

[PSMA-targeted radioligand therapy with \[¹⁷⁷Lu\]Lu-LNC1011 for metastatic castration-resistant prostate cancer: a pilot study.](#)

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