

CURRICULUM VITAE

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

Biography:



Prof. Xiaoyuan (Shawn) Chen is Nasrat Muzayyin Chair Professor in Medicine and Technology, National University of Singapore. He is the founding editor of journal *Theranostics* (IF 12.4). 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 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 1100 papers and numerous books (total citations >156,000, H index 207 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

National University of Singapore	
Nasrat Muzayyin Chair Professor in Medicine and Technology	11/20-present
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 SERVICE

Committee 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 = 12.4)
 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 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

- Fellow, Singapore National Academy of Science (SNAS), 2024
- Member, Academia Europaea (MAE), 2024
- Fellow, European Academy of Sciences, 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, 2017-2023
- ACS Bioconjugate Chemistry Lectureship Award, 2016
- NIH Director's Award, 2014
- NIBIB Mentor Award, 2012
- EANM Springer Prize 2011 - MOST CITED PAPERS. Cai W, Chen K, Cao Q, Koong A, Chen X. Quantitative PET of EGFR expression in xenograft-bearing mice using ⁶⁴Cu-labeled cetuximab, a chimeric anti-EGFR monoclonal antibody. *Eur J Nucl Med Mol Imaging* 2007;34:850-858.
- *Eur J Nucl Med Mol Imaging* 2009 Best Basic Science paper "Liu Z, Niu G, Wang F, Chen X. (68)Ga-labeled NOTA-RGD-BBN peptide for dual integrin and GRPR-targeted tumor imaging. *Eur J Nucl Med Mol Imaging*. 2009 Sep;36(9):1483-94."
- *J Nucl Med* 2008 Best Basic Science paper "Lee HY, Li Z, Chen K, Hsu AR, Xu C, Xie J, Sun S, Chen X. PET/MRI dual-modality tumor imaging using arginine-glycine-aspartic (RGD)-conjugated radiolabeled iron oxide nanoparticles. *J Nucl Med*. 2008 Aug;49(8):1371-9."
- First place award in the Molecular Imaging Abstract track for abstract titled "Trafficking the fate of mesenchymal stem cells in vivo" from the SNM's Molecular Imaging Center of Excellence (55th SNM annual meeting), 2008
- Best Basic Science Abstract Award, 55th, 54th, and 53rd SNM annual meetings (2008, 2007, and 2006).
- *Circulation* Best Basic Science paper "Cao F, Lin S, Xie X, Ray P, Patel M, Zhang X, Drukker M, Dylla SJ, Connolly AJ, Chen X, Weissman IL, Gambhir SS, Wu JC. In vivo visualization of

embryonic stem cell survival, proliferation, and migration after cardiac delivery. *Circulation*. 2006 Feb 21;113(7):1005-14.”

Journal Cover Features

- *J Nucl Med* cover feature article “Chen X, Park R, Hou Y, Tohme M, Shahinian AH, Bading JR, Conti PS. microPET and autoradiographic imaging of GRP receptor expression with ⁶⁴Cu-DOTA-[Lys³]bombesin in human prostate adenocarcinoma xenografts. *J Nucl Med*. 2004;45(8):1390-7.”
- *J Nucl Med* cover feature article “Xiong Z, Cheng Z, Zhang X, Patel M, Wu JC, Gambhir SS, Chen X. Imaging chemically modified adenovirus for targeting tumors expressing integrin alphavbeta3 in living mice with mutant herpes simplex virus type 1 thymidine kinase PET reporter gene. *J Nucl Med*. 2006;47(1):130-9.”
- *Cancer Res* cover feature article “Liu Z, Chen K, Davis C, Sherlock S, Cao Q, Chen X, Dai H. Drug delivery with carbon nanotubes for in vivo cancer treatment. *Cancer Res*. 2008;68(16):6652-60.”
- *Mol Imaging* cover feature article “Lee S, Chen X. Dual-modality probes for in vivo molecular imaging. *Mol Imaging*. 2009 Mar-Apr;8(2):87-100.”
- *Clin Cancer Res* cover feature article “Niu G, Sun X, Cao Q, Courter D, Koong A, Le QT, Gambhir SS, Chen X. Cetuximab-based immunotherapy and radioimmunotherapy of head and neck squamous cell carcinoma. *Clin Cancer Res*. 2010 Apr 1;16(7):2095-105.”
- *J Control Release* cover feature article “Zhu L, Wang H-L, Wang L, Wang Y, Jiang K, Li Cheng, Ma Q, Gao S, Wang L, Li W, Cai M-J, Wang D-H, Niu G, Lee S, Yang W, Fang XX, Chen X. High-affinity peptide against MT1-MMP for in vivo tumor imaging. *J Control Release*, 2011; 150(3):248-55”
- *Small* cover feature article “Liu G, Xie J, Zhang F, Wang Z, Luo K, Zhu L, Quan Q, Lee S, Ai H, Chen X. N-Alkyl-PEI Functionalized Iron Oxide Nanocluster for Efficient siRNA Delivery. *Small*, 2011;7(19):2742-9.”
- *Angew Chem Int Ed Engl* back cover article “Liu G, Choi K-Y, Bhirde A, Swierczewska M, Yin J, Lee SW, Park JH, Hong JI, Niu G, Lee S, Chen X. Sticky Nanoparticles: A New Platform for siRNA Delivery by Bis(Zinc(II)-Dipicolylamine)-Functionalized, Self-Assembled Nanoconjugate. *Angew Chem Int Ed Engl*, 2012;51(2):445-9.”
- *Theranostics* cover article “Choi KY, Swierczewska M, Lee S, Chen X. Protease-Activated Drug Development. *Theranostics* 2012; 2(2): 156-179.”
- *Advanced Materials* front cover article “Wang S, Huang P, Nie L, Xing R, Liu D, Wang Z, Lin J, Chen S, Niu G, Lu G, Chen X. Single Continuous Wave Laser Induced Photodynamic/Plasmonic Photothermal Therapy Using Photosensitizer-Functionalized Gold Nanostars. *Adv Mater*. 2013; 25(22):3055-61.”
- *Theranostics* cover article “Niu G, Zhu L, Ho DN, Zhang F, Gao H, Quan Q, Hida N, Ozawa T, Liu G, Chen X. Longitudinal bioluminescence imaging of the dynamics of Doxorubicin induced apoptosis. *Theranostics*. 2013;3(3):190-200.”
- *Theranostics* cover article “Wu C, Li F, Niu G, Chen X. PET Imaging of Inflammation Biomarkers. *Theranostics* 2013; 3(7): 448-466.”
- *Small* back cover article “Wang X, Wang G, Li W, Zhao B, Xing B, Leng Y, Dou H, Sun K, Shen L, Yuan X, Li J, Sun K, Han J, Xiao H, Li Y, Huang P, Chen X. NIR-Emitting Quantum Dot-Encoded Microbeads through Membrane Emulsification for Multiplexed Immunoassays. *Small*. 2013;9(19):3327-35”
- *Angew Chem Int Ed Engl* back cover article “Liu D, Wang Z, Jin A, Huang X, Sun X, Wang F, Yan Q, Ge S, Xia N, Niu G, Liu G, Hight Walker AR, Chen X. Acetylcholinesterase-catalyzed hydrolysis

allows ultrasensitive detection of pathogens with the naked eye. *Angew Chem Int Ed Engl.* 2013;52(52):14065-9.”

- *Angew Chem Int Ed Engl* frontispiece article “Huang P, Lin J, Li W, Rong P, Wang Z, Wang S, Wang X, Sun X, Aronova M, Niu G, Leapman RD, Nie Z, Chen X. Biodegradable Gold Nanovesicles with an Ultrastrong Plasmonic Coupling Effect for Photoacoustic Imaging and Photothermal Therapy. *Angew Chem Int Ed Engl.* 2013;52(52):13958-64.”
- *Angew Chem Int Ed Engl* back cover article “Wang Z, Wang Z, Liu D, Yan X, Wang F, Niu G, Yang M, Chen X. Biomimetic RNA-Silencing Nanocomplexes: Overcoming Multidrug Resistance in Cancer Cells. *Angew Chem Int Ed Engl.* 2014;53(7):1997-2001.”
- *Small* front cover article “Nie L, Wang S, Wang X, Rong P, Ma Y, Liu G, Huang P, Lu G, Chen X. In Vivo Volumetric Photoacoustic Molecular Angiography and Therapeutic Monitoring with Targeted Plasmonic Nanostars. *Small.* 2014;10(8):1585-93.”
- *Adv Healthc Mater* back cover article “Wang L, Wang X, Bhirde A, Cao J, Zeng Y, Huang X, Sun Y, Liu G, Chen X. Carbon-Dots-based Two-Photon Visible Nanocarriers for Safe and Highly Efficient Delivery of siRNA and DNA. *Adv Healthc Mater.* 2014; 3(8):1203-9.
- *Small* Inside Front Cover article “Wang S, Teng Z, Huang P, Liu D, Liu Y, Tian Y, Sun J, Li Y, Ju H, Chen X, Lu G. Reversibly Extracellular pH Controlled Cellular Uptake and Photothermal Therapy by PEGylated Mixed-Charge Gold Nanostars. *Small.* 2015 Apr;11(15):1801-1810.”
- *Bioconjugate Chem* Cover article “Jacobson O, Yan X, Ma Y, Niu G, Kiesewetter DO, Chen X. Novel Method for Radiolabeling and Dimerizing Thiolated Peptides Using 18F-Hexafluorobenzene. *Bioconjug Chem.* 2015;26(10):2016-20.”
- *Advanced Materials* Front Cover article “Song J, Yang X, Jacobson O, Huang P, Sun X, Lin L, Yan X, Niu G, Ma Q, Chen X. Ultrasmall Gold Nanorod Vesicles with Enhanced Tumor Accumulation and Fast Excretion from the Body for Cancer Therapy. *Adv Mater.* 2015;27(33):4910-7.”
- *Advanced Materials* Front Cover article “He Q, Kiesewetter DO, Qu Y, Fu X, Fan J, Huang P, Liu Y, Zhu G, Liu Y, Qian Z, Chen X. NIR-Responsive On-Demand Release of CO from Metal Carbonyl-Caged Graphene Oxide Nanomedicine. *Adv Mater.* 2015;27(42):6741-6.”
- *Bioconjugate Chemistry* Front cover for special issue “Antibody-Drug Conjugates. *Bioconjug Chem.* 2015;26(11):2169.”.
- *Nanoscale* Front cover article “Temporal-spatially transformed synthesis and formation mechanism of gold bellflowers” *Nanoscale* 2016;8:7430-4.”
- *Angew Chem Int Ed* Back cover article “Liu Y, He J, Yang K, Yi C, Liu Y, Nie L, Khashab NM, Chen X, Nie Z. “Folding Up of Gold Nanoparticle Strings into Plasmonic Vesicles for Enhanced Photoacoustic Imaging”. *Angew Chem Int Ed Engl.* 2015;54:15809–15812.”
- *Adv Mater* Front cover article “Lin J, Wang M, Hu H, Yang X, Wen B, Wang Z, Jacobson O, Song J, Zhang G, Niu G, Huang P, Chen X. Multimodal-Imaging-Guided Cancer Phototherapy by Versatile Biomimetic Theranostics with UV and γ -Irradiation Protection”. *Adv Mater.* 2016; 28(17):3273-9.
- *Polymer Chem* Back Cover article “Yu G, Zhao R, Wu D, Zhang F, Shao L, Zhou J, Yang J, Tang G, Chen X, Huang F. Pillar[5]arene-based amphiphilic supramolecular brush copolymers: fabrication, controllable self-assembly and application in self-imaging targeted drug delivery. *Polymer Chem,* 2016;7:6178-6188.”
- *Chem Soc Rev* Back Inside Cover article “Fan W, Huang P, Chen X. Overcoming the Achilles' heel of photodynamic therapy. *Chem Soc Rev.* 2016 Nov 21;45(23):6488-6519.”
- *Angew Chem Int Ed* Back cover article “Fan W, Lu N, Huang P, Liu Y, Yang Z, Wang S, Yu G, Liu Y, Hu J, He Q, Qu J, Wang T, Chen X. Glucose-Responsive Sequential Generation of Hydrogen

- Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy. *Angew Chem Int Ed Engl.* 2017;56(5):1229-1233.”
- *J Nucl Med* cover article “Zhang J, Niu G, Lang L, Li F, Fan X, Yan X, Yao S, Yan W, Huo L, Chen L, Li Z, Zhu Z, Chen X. Clinical translation of a dual integrin $\alpha\beta3$ and GRPR targeting PET radiotracer ^{68}Ga -NOTA-BBN-RGD. *J Nucl Med.* 2017 Feb;58(2):228-234”
 - *Chem Soc Rev* Inside Front Cover article “Shen Z, Wu A, Chen X. Current detection technologies for circulating tumor cells. *Chem Soc Rev.* 2017;46:2038-2056.”
 - *Adv Funct Mater* Front Cover article “Zhang R, Gao S, Wang Z, Han D, Liu L, Ma Q, Tan W, Tian J, Chen X. Multifunctional Molecular Beacon Micelles for Intracellular mRNA Imaging and Synergistic Therapy in Multidrug-Resistant Cancer Cells. *Adv Funct Mater.* 2017;27:1701027.”
 - *Adv Mater* Inside Back Cover article “Chu C, Lin H, Liu H, Wang X, Wang J, Zhang P, Gao H, Huang C, Zeng Y, Tan Y, Liu G, Chen X. Tumor Microenvironment-Triggered Supramolecular System as an In Situ Nanotheranostic Generator for Cancer Phototherapy. *Adv Mater.* 2017;29:1605928.”
 - *Adv Mater* Frontispiece article “Shen Z, Song J, Yung BC, Zhou Z, Wu A, Chen X. Emerging Strategies of Cancer Therapy Based on Ferroptosis. *Adv Mater.* 2018;30:1704007.”
 - *Adv Mater* Inside Cover article “Ni Q, Zhang F, Zhang Y, Zhu G, Wang Z, Teng Z, Wang C, Yung BC, Niu G, Lu G, Zhang L, Chen X. In Situ shRNA Synthesis on DNA-Polylactide Nanoparticles to Treat Multidrug Resistant Breast Cancer. *Adv Mater.* 2018;30:1705737”
 - *Theranostics* Inside Back Cover article “Yang Z, Song J, Tang W, Fan W, Dai Y, Shen Z, Lin L, Cheng S, Liu Y, Niu G, Rong P, Wang W, Chen X. Stimuli-Responsive Nanotheranostics for Real-Time Monitoring Drug Release by Photoacoustic Imaging. *Theranostics* 2019; 9(2):526-536.”
 - *Chem Soc Rev* Back Cover article “Sang W, Zhang Z, Dai Y, Chen X. Recent advances in nanomaterial-based synergistic combination cancer immunotherapy. *Chem Soc Rev.* 2019; 48(14):3771-3810.”
 - *Theranostics* Cover article “Yu G, Chen X. Host-Guest Chemistry in Supramolecular Theranostics. *Theranostics* 2019; 9(11):3041-3074.”
 - *Adv Mater* Back Cover article “Tian R, Ma H, Zhu S, Lau J, Ma R, Liu Y, Lin L, Chandra S, Wang S, Zhu X, Deng H, Niu G, Zhang M, Antaris AL, Hettie KS, Yang B, Liang Y, Chen X. Multiplexed NIR-II Probes for Lymph Node-Invaded Cancer Detection and Imaging-Guided Surgery. *Adv Mater* 2020;32:1907365”
 - *PNAS* Cover article “Rao L, Xia S, Xu W, Tian R, Yu G, Gu C, Pan P, Meng QF, Cai X, Qu D, Lu L, Xie Y, Jiang S, Chen X. Decoy nanoparticles protect against COVID-19 by concurrently adsorbing viruses and inflammatory cytokines. *Proc Natl Acad Sci U S A.* 2020 Oct 6:202014352”
 - *Matter* Cover article “Chen W, Cai B, Cheng Z, Chen F, Wang Z, Wang L, Chen X. Reducing false negatives in COVID-19 testing by using microneedle-based oropharyngeal swabs. *Matter*, 2020 Oct 5. doi: 10.1016/j.matt.2020.09.021”
 - *Eur J Nucl Med Mol Imaging* Best Paper “Zang J, Liu Q, Sui H, Wang R, Jacobson O, Fan X, Zhu Z, Chen X. ^{177}Lu -EB-PSMA Radioligand Therapy with Escalating Doses in Patients with Metastatic Castration-Resistant Prostate Cancer. *J Nucl Med.* 2020;61(12):1772-1778”
 - *View* Inside Front Cover “Fathi P, Rao L, Chen X. Extracellular vesicle-coated nanoparticles. *View* 2021;2:20200187”.
 - *Chem Soc Rev* Front Cover “Li B, Zhao M, Lin J, Huang P, Chen X. Management of fluorescent organic/inorganic nanohybrids for biomedical applications in the NIR-II region. DOI <https://doi.org/10.1039/D2CS00131D>”

- *Theranostics* Inside Front Cover “Wang R, Jakobsson V, Wang J, Zhao T, Peng X, Li B, Xue J, Liang N, Zhu Z, Chen X, Zhang J. Dual targeting PET tracer [68Ga]Ga-FAPI-RGD in patients with lung neoplasms: a pilot exploratory study. *Theranostics*. 2023 May 15;13(9):2979-2992”.
- *Acc Chem Res* Front Cover “Tao Y, Jakobsson V, Chen X, Zhang J. Exploiting Albumin as a Versatile Carrier for Cancer Theranostics”. *Acc Chem Res*. 2023 Aug 25. doi: 10.1021/acs.accounts.3c00309.
- *Chem Soc Rev* Front Cover “Zou J, Zhang Y, Pan Y, Mao Z, Chen X. Advancing nanotechnology for neoantigen-based cancer theranostics. *Chem Soc Rev*. 2024 Apr 2;53(7):3224-3252”.
- *Nano Lett* Front Cover “Liang S, Ma N, Li X, Yun K, Meng QF, Ma K, Yue L, Rao L, Chen X, Wang Z. A Guanidinobenzol-Rich Polymer Overcoming Cascade Delivery Barriers for CRISPR-Cas9 Genome Editing. *Nano Lett*. 2024 Apr 29. doi: 10.1021/acs.nanolett.4c00533”.
- *Theranostics* Back Cover “Song Y, Zou J, Castellanos EA, Matsuura N, Ronald JA, Shuhendler A, Weber WA, Gilad AA, Müller C, Witney TH, Chen X. Theranostics - a sure cure for cancer after 100 years? *Theranostics*. 2024 Mar 31;14(6):2464-2488”.
- *Adv Mater* Front Cover “Zhang M, Wang Y, Li B, Yang B, Zhao M, Li B, Liu J, Hu Y, Wu Z, Ong Y, Han X, Ding L, Zhu K, Li J, Luo M, Chen S, Peng L, Zhang L, Chen X, Ni Q. STING-Activating Polymers Boost Lymphatic Delivery of mRNA Vaccine to Potentiate Cancer Immunotherapy. *Adv Mater*. 2024 Dec 23:e2412654”.

SOCIETY MEMBERSHIPS

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

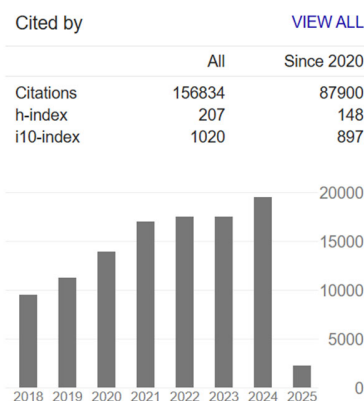
Scholarly Publications (in chronological order, Total Citations > 156,000, **H-index = 207**)2025 (1153-1156)

1156. Wang R, Li Y, Li Z, Wang J, Li L, Xiang J, Jia C, Peng X, Wang Y, Ma W, Wang L, Jia W, Chen X, Li D, Zhu Z, Zhang J. [Gastrin-Releasing Peptide Receptor Targeting PET/CT With 68Ga-NOTA-RM26 in the Assessment of Glioma and Combined Multiregional Biopsies](#)
Clin Nucl Med. 2025 Jan 14. doi: 10.1097/RLU.0000000000005651.

1155. Xiong H, Wang R, Zhang H, Zhang Q, Qin Y, Du C, Zhang X, Ye J, Shi C, Shen H, Zhu Z, Zhou Z, Chen X, Zhang J. [Preclinical and First-in-Human Study of a Compact Radionuclide Labeled Self-Assembly Nanomedicine for Chemo-Radio-Theranostics of Cancer](#)
ACS Nano. 2025 Jan 13. doi: 10.1021/acsnano.4c18489.

1154. Gao Y, Bai Q, Ren Y, Shao X, Zhang M, Wu L, Lewis S, James T, Chen X, Chen Q. [A Small-Molecule Drug for the Self-Checking of Mitophagy](#)
Angew Chem Int Ed Engl. 2025 Jan 12:e202421269.

1153. Chen J, Zhou Y, Pang Y, Fu K, Luo Q, Sun L, Wu H, Lin Q, Su G, Chen X, Zhao L, Chen H.



[FAP-targeted radioligand therapy with ⁶⁸Ga/¹⁷⁷Lu-DOTA-2P\(FAPI\)2 enhance immunogenicity and synergize with PD-L1 inhibitors for improved antitumor efficacy](#)

J Immunother Cancer. 2025 Jan 11;13(1):e010212.

2024 (1050-1152)

1152. Peng S, Chen Z, Wang J, Yu M, Niu X, Cui T, Ao R, Cai H, Huang H, Lin L, Chen X, Yang H. [One-Pot Synthesis of Oxygen Vacancy-Rich Amorphous/Crystalline Heterophase CaWO₄ Nanoparticles for Enhanced Radiodynamic-Immunotherapy](#)

Adv Sci (Weinh). 2024 Dec 27:e2409551.

1151. Zhang M, Wang Y, Li B, Yang B, Zhao M, Li B, Liu J, Hu Y, Wu Z, Ong Y, Han X, Ding L, Zhu K, Li J, Luo M, Chen S, Peng L, Zhang L, Chen X, Ni Q.

[STING-Activating Polymers Boost Lymphatic Delivery of mRNA Vaccine to Potentiate Cancer Immunotherapy](#)

Adv Mater. 2024 Dec 23:e2412654.

1150. Li H, Zeng J, You Q, Zhang M, Shi Y, Yang X, Gu W, Liu Y, Hu N, Wang Y, Chen X, Mu J.

[X-ray-activated nanoscintillators integrated with tumor-associated neutrophils polarization for improved radiotherapy in metastatic colorectal cancer](#)

Biomaterials. 2025 May;316:123031.

1149. Hou DY, You Q, Zhang P, Li XP, Wu JC, Wang Y, You HH, Lv MY, Wu G, Liu X, Guo P, Cheng DB, Chen X, Xu W.

[Cascade-Activatable Nanoprodug System Augments Sonochemotherapy of Bladder Cancer](#)

ACS Nano. 2024 Dec 17. doi: 10.1021/acsnano.4c12967.

1148. Wang R, Li H, He S, Feng Y, Liu C, Hao K, Zhou D, Chen X, Tian H.

[Spatiotemporal Nano-Regulator Unleashes Anti-Tumor Immunity by Overcoming Dendritic Cell Tolerance and T Cell Exhaustion in Tumor-Draining Lymph Nodes](#)

Adv Mater. 2024 Dec 11:e2412141.

1147. He L, Yang Y, Cao X, Zhu X, Liu N, Chen X, Zhang J, Zhang W.

[\[¹⁸F\]AIF-NOTA-pentixather PET/CT of CXCR4 in patients with suspected primary hyperaldosteronism](#)

Theranostics. 2024 Oct 28;14(19):7281-7291.

1146. Shen L, Chen M, Su Y, Bi Y, Shu G, Chen W, Lu C, Zhao Z, Lv L, Zou J, Chen X, Ji J.

[NIR-II Imaging for Tracking the Spatiotemporal Immune Microenvironment in Atherosclerotic Plaques](#)

ACS Nano. 2024 Dec 4. doi: 10.1021/acsnano.4c10739.

1145. Zhang K, Feng W, Mou Z, Zhang L, Ma M, Zhao Z, Liu X, Chen X, Li Z.

[Late-stage \(radio\)fluorination of alkyl phosphonates via electrophilic activation](#)

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