



## Giovanni Marco Saladino

Postdoctoral Scholar, Radiology

### Bio

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#### BIO

I am a Postdoctoral Scholar in the Department of Radiology at Stanford University. I graduated in Engineering Physics with a BSc at Politecnico di Milano (Italy) and an MSc at KTH Royal Institute of Technology (Sweden). In 2024, I obtained my PhD in Biological and Biomedical Physics from the Department of Applied Physics at KTH Royal Institute of Technology.

My research interests lie at the intersection of molecular imaging, nanomedicine, and nanomaterials. Specifically, I focus on developing novel contrast agents and exploring advanced imaging techniques. During my PhD studies, I designed hybrid multimodal contrast agents for complementary imaging using X-ray fluorescence computed tomography, magnetic resonance imaging, and optical fluorescence imaging. I am currently involved in investigating theranostic applications of nanomaterials, which hold great promise for personalized medicine and targeted therapies.

#### HONORS AND AWARDS

- 2026 NPIL Neuroimaging Pilot Grant, Wu Tsai Neurosciences Institute (2026)
- Bio-X Travel Award, Stanford Bio-X (2026)
- Outstanding Reviewer for Nanoscale Advances in 2025, Royal Society of Chemistry (2026)
- Outstanding Reviewer for Nanoscale Advances in 2024, Royal Society of Chemistry (2025)
- Elected Full Member, Sigma Xi - The Scientific Research Honor Society (2024)
- Best Paper Award, 6th International Conference on Theoretical and Applied Nanoscience and Nanotechnology (TANN'22) (2022)

#### STANFORD ADVISORS

- Heike Daldrup-Link, Postdoctoral Faculty Sponsor

#### LINKS

- Google Scholar: <https://scholar.google.com/citations?user=8UHUHt0AAAAJ>
- Personal Website: <https://www.gmsaladino.com/>

### Publications

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#### PUBLICATIONS

- **Quantitative detection of macrophage activation in osteosarcoma comparing 18F-FDG PET/CT with ferumoxytol-enhanced MRI.** *Scientific reports*  
Roudi, R., Habte, F., Saladino, G. M., Vasylyv, I., Pisani, L., Wong, J., Syed, A., Daldrup-Link, H. E.  
2026

- **Transient blood-brain barrier opening by focused ultrasound enhances ferumoxytol accumulation in glioblastoma.** *Materials today. Bio*  
Saladino, G. M., Martinez, P. J., Wang, J., Roudi, R., Annio, G., Airan, R. D., Daldrup-Link, H. E.  
2026; 38: 103280
- **Intravital microscopy for nanomedicine: investigating nanoparticle-tissue interactions in the native state.** *RSC advances*  
Saladino, G. M.  
2026; 16 (6): 5692-5706
- **Innate immuno-response to nanoparticle uptake in liver and spleen mimics pathogen infection.** *Nanomedicine (London, England)*  
Brodin, B. A., Saladino, G. M., Hertz, H. M., Arsenian-Henriksson, M., Toprak, M. S.  
2025: 1-11
- **3D-Printed Crosslinked Nanocellulose-MXene Hydrogels and Aerogels with High Strength and Conductivity.** *Small (Weinheim an der Bergstrasse, Germany)*  
Kilic, N. I., Matthews, K., Saladino, G. M., Gogotsi, Y., Larsson, P. A., Hamed, M. M.  
2025: e07491
- **Design and Biodistribution of PEGylated Core-Shell X-ray Fluorescent Nanoparticle Contrast Agents.** *ACS applied materials & interfaces*  
Saladino, G. M., Brodin, B., Ciobanu, M., Kilic, N. I., Toprak, M. S., Hertz, H. M.  
2025
- **Multimodal imaging approach to track theranostic nanoparticle accumulation in glioblastoma with magnetic resonance imaging and intravital microscopy.** *Nanoscale*  
Saladino, G. M., Mangarova, D. B., Nernekli, K., Wang, J., Annio, G., Varniab, Z. S., Khatoun, Z., Ribeiro Morais, G., Shi, Y., Chang, E., Pisani, L. J., Tikhomirov, G., Falconer, et al  
2025
- **A rapid synthesis of magnetic-core mesoporous silica-shell nanostructures - as potential theranostic agents - by means of microwave irradiation and the atrane method.** *Nanoscale*  
Garrido, M. D., Hamawandi, B., Serrano-Claumarchirant, J. F., Saladino, G. M., Ergül, A. B., Marcos, M. D., Ros-Lis, J. V., Amorós, P., Toprak, M. S.  
2025
- **Liposome biodistribution mapping with in vivo X-ray fluorescence imaging.** *Nanoscale*  
Saladino, G. M., Chao, P. H., Brodin, B., Li, S. D., Hertz, H. M.  
2024
- **Iterative nanoparticle bioengineering enabled by x-ray fluorescence imaging.** *Science advances*  
Saladino, G. M., Brodin, B., Kakadiya, R., Toprak, M. S., Hertz, H. M.  
2024; 10 (12): eadl2267
- **Laboratory Liquid-Jet X-ray Microscopy and X-ray Fluorescence Imaging for Biomedical Applications.** *International journal of molecular sciences*  
Arsana, K. G., Saladino, G. M., Brodin, B., Toprak, M. S., Hertz, H. M.  
2024; 25 (2)
- **Two-Photon Polymerization Printing with High Metal Nanoparticle Loading.** *ACS applied materials & interfaces*  
Kilic, N. I., Saladino, G. M., Johansson, S., Shen, R., McDorman, C., Toprak, M. S., Johansson, S.  
2023; 15 (42): 49794-49804
- **Organ uptake, toxicity and skin clearance of ruthenium contrast agents monitored in vivo by x-ray fluorescence** *NANOMEDICINE*  
Vogt, C., Saladino, G. M., Shaker, K., Arsenian-Henriksson, M., Hertz, H. M., Toprak, M. S., Brodin, B. A.  
2023
- **Magnetoresponse fluorescent core-shell nanoclusters for biomedical applications.** *Nanoscale advances*  
Saladino, G. M., Kakadiya, R., Ansari, S. R., Teleki, A., Toprak, M. S.  
2023; 5 (5): 1323-1330
- **XFCT-MRI hybrid multimodal contrast agents for complementary imaging.** *Nanoscale*  
Saladino, G. M., Vogt, C., Brodin, B., Shaker, K., Kilic, N. I., Andersson, K., Arsenian-Henriksson, M., Toprak, M. S., Hertz, H. M.  
2023; 15 (5): 2214-2222

- **Carbon Quantum Dots Conjugated Rhodium Nanoparticles as Hybrid Multimodal Contrast Agents.** *Nanomaterials (Basel, Switzerland)*  
Saladino, G. M., Kilic, N. I., Brodin, B., Hamawandi, B., Yazgan, I., Hertz, H. M., Toprak, M. S.  
2021; 11 (9)
  
- **Optical and X-ray Fluorescent Nanoparticles for Dual Mode Bioimaging.** *ACS nano*  
Saladino, G. M., Vogt, C., Li, Y., Shaker, K., Brodin, B., Svenda, M., Hertz, H. M., Toprak, M. S.  
2021; 15 (3): 5077-5085
  
- **A versatile strategy to synthesize sugar ligand coated superparamagnetic iron oxide nanoparticles and investigation of their antibacterial activity** *COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS*  
Saladino, G., Hamawandi, B., Demir, M., Yazgan, I., Toprak, M.  
2021; 613
  
- **Synthesis, Physicochemical Characterization, and Cytotoxicity Assessment of Rh Nanoparticles with Different Morphologies-as Potential XFCT Nanoprobes.** *Nanomaterials (Basel, Switzerland)*  
Li, Y., Saladino, G. M., Shaker, K., Svenda, M., Vogt, C., Brodin, B., Hertz, H. M., Toprak, M. S.  
2020; 10 (11)
  
- **Click chemical assembly and validation of bio-functionalized superparamagnetic hybrid microspheres** *APPLIED NANOSCIENCE*  
Saladino, G. M., Hamawandi, B., Vogt, C., Rajarao, G. K., Toprak, M. S.  
2020; 10 (6): 1861-1869