

Stanford



Peng Si

Basic Life Res Scientist, Structural Biology

SUPERVISORS

- Adam de la Zerda

Bio

HONORS AND AWARDS

- Travel Award, World Molecular Imaging Society (2019)
- Travel Award, World Molecular Imaging Society (2018)
- Travel Award, World Molecular Imaging Society (2017)
- Dean's Postdoctoral Fellowship, Stanford University School of Medicine (2014)
- Chinese Government Award for Outstanding Self-Financed Students Abroad, China Scholarship Council (2013)
- Honored Graduate Award, Jilin University (2009)

EDUCATION AND CERTIFICATIONS

- Ph.D, Nanyang Technological University , Bioengineering (2014)
- B.S., Jilin University , Biotechnology (2009)

PROJECTS

- MOZART: A New Technology for Imaging Tumor Heterogeneity In Vivo - Stanford University School of Medicine

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Guest Editor (2/7/2020)
- Conference Session Chair (9/4/2019 - 9/7/2019)

LINKS

- Personal Website: <https://www.pengsi-research.com>

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Council member, Stanford University Postdoctoral Association (SURPAS) (2014 - present)
- Board member, Association of Chinese Students and Scholars at Stanford (ACSSS) (2014 - present)
- UN coordinator, Intern Board of World Health Organization (2013 - 2014)
- Founder and Chairperson, NTU Graduate Toastmasters Association (2013 - 2014)

- Founder and President, Nanyang Scholars Toastmasters Club (2013 - 2014)
- Secretary-General, Student Council of Jilin University School of Life Sciences (2006 - 2007)
- Deputy Secretary-General, Student Council of Jilin University School of Life Sciences (2005 - 2006)

Publications

PUBLICATIONS

- **Optical Microscopy and Coherence Tomography of Cancer in Living Subjects.** *Trends in cancer*
Si, P., Honkala, A., de la Zerda, A., Smith, B. R.
2020; 6 (3): 205–22
- **Gold Nanobipyramids as Second Near Infrared Optical Coherence Tomography Contrast Agents for in Vivo Multiplexing Studies.** *Nano letters*
Si, P., Shevidi, S., Yuan, E., Yuan, K., Lautman, Z., Jeffrey, S. S., Sledge, G. W., de la Zerda, A.
2019
- **Gold Nanoprisms as Optical Coherence Tomography Contrast Agents in the Second Near-Infrared Window for Enhanced Angiography in Live Animals** *ACS NANO*
Si, P., Yuan, E., Liba, O., Winetraub, Y., Yousefi, S., SoRelle, E., Yecies, D., Dutta, R., de la Zerda, A.
2018; 12 (12): 11986–94
- **Optical Coherence Tomography of Lymphatic Vessel Endothelial Hyaluronan Receptors In Vivo**
Si, P., Sen, D., Duttal, R., Yousefi, S., Dalal, R., Winetraub, Y., Liba, O., de la Zerda, A., Izatt, J. A., Fujimoto, J. G., Tuchin, V. V.
SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Macroscopic Assembly of Gold Nanorods into Superstructures with Controllable Orientations by Anisotropic Affinity Interaction** *LANGMUIR*
Rong, Y., Song, L., Si, P., Zhang, L., Lu, X., Zhang, J., Nie, Z., Huang, Y., Chen, T.
2017; 33 (48): 13867–73
- **In Vivo Molecular Optical Coherence Tomography of Lymphatic Vessel Endothelial Hyaluronan Receptors** *SCIENTIFIC REPORTS*
Si, P., Sen, D., Dutta, R., Yousefi, S., Dalal, R., Winetraub, Y., Liba, O., de la Zerda, A.
2017; 7
- **Gold Nanoparticle-Graphite-Like C3N4 Nanosheet Nanohybrids Used for Electrochemiluminescent Immunosensor** *ANALYTICAL CHEMISTRY*
Chen, L., Zeng, X., Si, P., Chen, Y., Chi, Y., Kim, D., Chen, G.
2014; 86 (9): 4188-4195
- **Fluorescent pH Sensor Based on Ag@SiO₂ Core-Shell Nanoparticle** *ACS APPLIED MATERIALS & INTERFACES*
Bai, Z., Chen, R., Si, P., Huang, Y., Sun, H., Kim, D.
2013; 5 (12): 5856-5860
- **A hierarchically structured composite of Mn₃O₄/3D graphene foam for flexible nonenzymatic biosensors** *JOURNAL OF MATERIALS CHEMISTRY B*
Si, P., Dong, X., Chen, P., Kim, D.
2013; 1 (1): 110-115
- **Electrodeposition of hierarchical MnO₂ spheres for enzyme immobilization and glucose biosensing** *JOURNAL OF MATERIALS CHEMISTRY B*
Si, P., Chen, P., Kim, D.
2013; 1 (21): 2696-2700
- **Nanomaterials for electrochemical non-enzymatic glucose biosensors** *RSC ADVANCES*
Si, P., Huang, Y., Wang, T., Ma, J.
2013; 3 (11): 3487-3502
- **Hierarchically Structured One-Dimensional TiO₂ for Protein Immobilization, Direct Electrochemistry, and Mediator-Free Glucose Sensing** *ACS NANO*
Si, P., Ding, S., Yuan, J., Lou, X. W., Kim, D.
2011; 5 (9): 7617-7626
- **Highly stable and sensitive glucose biosensor based on covalently assembled high density Au nanostructures** *BIOSENSORS & BIOELECTRONICS*
Si, P., Kannan, P., Guo, L., Son, H., Kim, D.

2011; 26 (9): 3845-3851

- **An electrochemically formed three-dimensional structure of polypyrrole/graphene nanoplatelets for high-performance supercapacitors** *RSC ADVANCES*
Si, P., Ding, S., Lou, X. (., Kim, D.
2011; 1 (7): 1271-1278
- **Selective and sensitive determination of dopamine by composites of polypyrrole and graphene modified electrodes** *ANALYST*
Si, P., Chen, H., Kannan, P., Kim, D.
2011; 136 (24): 5134-5138