



Name: Yi Li

Affiliation: Princeton Plasma Physics Laboratory (PPPL)

Position: HTS Magnet Engineer/Scientist

Previous Positions: 2017–2020 Research Assistant Professor
Mechanical Engineering, Advanced Manufacturing Institute, Texas Center for Superconductivity, University of Houston
2020–2022 Postdoctoral Associate
Francis Bitter Magnet Laboratory, Plasma Science and Fusion Center, Massachusetts Institute of Technology

Education: Ph.D. in Physics, Tsinghua University, 2017

Research Interests/Areas of Expertise: Superconducting Magnets for Scientific Research and Fusion Technology; Magnetization Analysis and Measurement; High-Temperature Superconductors and Characterization Technology

Publications:


[Google Scholar](#)

*Magnetization and screening current in an 800 MHz (18.8 T) REBCO nuclear magnetic resonance insert magnet: experimental results and numerical analysis – Y Li, D Park, Y Yan, Y Choi, J Lee, P C Michael, S Chen, T Qu, J Bascañan, Y Iwasa *Supercond. Sci. Tech.* [2019](#)*

*Screening-current-induced strain gradient on REBCO conductor: an experimental and analytical study with small coils wound with monofilament and striated multifilament REBCO tapes – Y Li, D Park, W Lee, Y Choi, H Tanaka, J Bascañan, Y Iwasa *IEEE Trans. Appl. Supercond.* [2020](#)*

*Screening current induced magnetic field and stress in ultra-high-field magnets using REBCO coated conductors – Y Yan, Y Li, T Qu *Supercond. Sci. Tech.* [2021](#)*

*A reel-to-reel scanning hall probe microscope for characterizing long REBCO conductor in magnetic fields up to 5 Tesla – Y Li, S Chen, M Paidpilli, R Jain, C Goel, V Selvamanickam *IEEE Trans. Appl. Supercond.* [2022](#)*

*Effect of edge cracks on critical current degradation in REBCO tapes under tensile stress – Z Yang, Y Li, P Song, M Guan, F Feng, T Qu *Superconductivity* [2023](#)*

*Current sharing in double-sided REBCO tapes – S Xue, Y Li, L Zhu, B Sarangi, J S Sandra, J Rong, N Mai, S Chen, A Chavda, U Sambangi, J Peram, P Parthiban, V Selvamanickam *Supercond. Sci. Tech.* [2024](#)*

Approximate Number of Years in Applied Superconductivity: 15

Membership in Professional Societies: IEEE

Previous ASC Service: Session Chair; Manuscript Reviewer

Service to Related Conferences: Fusion Magnet Community Workshop