

Publications (student co-authors underlined)

1. V. Selvamanickam, B. Sarangi, D. Fischer, K. Woller, E. Galstyan, and G. Majkic, "Optimization of REBCO tapes for neutron irradiation tolerance in compact fusion reactors" *Superconductivity* (in review)
2. S. Sen, I. Mahajan, V. Selvamanickam, L. Liu, and P. Sharma, "Continuum Modeling of Radiation-Induced Degradation in Superconductors" *J. Appl. Phys* (in review)
3. A. Lim, S. K. Rauniyar, M. Correa, B. Xu, V. Selvamanickam, L. Hathon. F. Robles Hernandez, "Real-Time Infrared Thermography on Inconel 718 With CT scan & Surface Roughness Analysis" (in review)
4. N. Castaneda, F. C. Robles, V. Selvamanickam, E. Galstyan, G. Majkic, "Characterization of Density of Artificial Pinning Centers in REBCO Superconductor via Strain Analysis by Raman Spectroscopy and 2D-XRD" *Applied Spectroscopy* (in review)
5. P. Pathak, A. Ibnat Lim, M. Nartu, R. Olivares, F. Robles Hernandez, V. Selvamanickam, "Additively manufactured M300 maraging steel – insitu process monitoring, microstructure, and performance evaluation" *Materials Characterization* (in review)
6. E. Salehi, C. Yelkarasi, P. Pathak, V. Selvamanickam, A. Dinesh, M. Kuttolamadom, A. Erdemir, "Effect of Chemical and Structural Defects on the Tribological Performance of Additively Manufactured 316L Stainless Steel: Micro-to-Macroscale Characterization" *Wear* **586**, 206450 (2026).
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9. A. Lim, P. Pathak, V. Selvamanickam, F. Robles Hernandez, "In-Situ/In-Operando Approach for Topology Optimization of Structural Components by Means of Thermal Imaging, Thermal Analysis and CT Scan" *Journal of the Japan Society of Powder and Powder Metallurgy* 72 (2025). DOI:10.2497/jjspm.17D-T17-09
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12. S. Xue, L. Zhu, J. Rong, N. Mai, Y. Li, S. Chen, U. Sambangi, J. Peram, V. Selvamanickam, "Current sharing and mechanical properties of Slot-n-Fill REBCO tapes" *IEEE Trans. Appl. Supercond.* **35**, 8400505 (2025).
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BOOK CHAPTER

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