

PUBLICATIONS: (2015 -2025)

(12721 citations as of May 2025. h-index: 65)

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(*Hari's students are in italics and postdocs in bold italics. Only published journal papers are listed. Manuscripts submitted and under preparation are not listed*)

2025

1. "Discovery of giant positive magnetoresistance in proximity to helimagnetic order in manganese phosphide nanostructured films" -*N. Mudiyanselage, D. De Tellem, A. Chanda, A.T. Duong, T-N. Hsieh, J. Frisch, M. Bar, R.P. Madhogaria, S. Mozaffari, H.S. Arachchige, D. G. Mandrus, H. Srikanth, S. Witanachchi and M.H. Phan, ACS Applied Materials and Interfaces* (April 2025) <https://doi.org/10.1021/acsmami.4c21202>
2. "Superparamagnetic superparticles for magnetic hyperthermia: overcoming the particle size limit" -*S. B. Attanayake, Minh Dang Nguyen, A. Chanda, J. Alonso, Inaki Orue, T. Randall Lee, H. Srikanth and M. H. Phan, ACS Applied Materials and Interfaces* 17, 19436 (2025)
3. "Robust Nernst magneto-thermoelectricity in topological spin semi-metal FeCrRhX (X = Si,Ge)" -*A. Chanda, J. Nag, N. Schulz, D. De Tellem, A. Alam, K. G. Suresh, M. H. Phan and H. Srikanth, Physical Review B* 111, 094416 (2025)

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4. "Unraveling the structural dependency of Weyl nodes in Co₂MnGa" -*N. Schulz, G. Pantano, D. DeTellem, A. Chanda, E.M. Clements, M. McGuire, A. Markou, C. Felser, D.A. Arena, J. Gayles, M.H. Phan and H. Srikanth, Physical Review B* 110, 054419 (2024)
5. "Large anomalous Nernst effect and its bipolarity in quaternary equiatomic Heusler alloys CrRuXGe (X = Co and Mn)" -*A. Chanda, J. Nag, N. Schulz, A. Alam, K.G. Suresh, M.H. Phan and H. Srikanth, Physical Review B* 109, 224415 (2024)
6. "Tailoring the magnetic and hyperthermic properties of biphasic iron oxide nanocubes through post-annealing" -*S. Attanayake, A. Chanda, R Das, M.H. Phan and H. Srikanth, Crystals* 14, 519 (2024) <https://doi.org/10.3390/crust14060519>
7. "Thermally generated magnonic spin currents in a polycrystalline gadolinium iron garnet thin film with perpendicular magnetic anisotropy" -*A. Chanda, C. Holzmann, N. Schulz, D. Stein, M. Albrecht, M.H. Phan and H. Srikanth, Journal of Applied Physics* 135, 123901 (2024)
8. "Temperature evolution of magnon propagation length in Tm₃Fe₅O₁₂ thin films: Roles of magnetic anisotropy and Gilbert damping" -*A. Chanda, C. Holzmann, N. Schulz, A. Ullrich, D. DeTellem, M. Albrecht, M. Gross, C.A. Ross, D. A. Arena, M.H. Phan and H. Srikanth, ACS Nano* <https://doi.org/10.1021/acsnano.3c12495> (2024)

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9. “Large thermo-spin effects Heusler alloy-based spin gapless semiconductor thin films” - **A. Chanda**, Deepika Rani, D. DeTellem, N. Alzahrani, D. A. Arena, S. Witanachchi, Ratnamala Chatterjee, M.H. Phan and **H. Srikanth**, **ACS Applied Materials & Interfaces** **15**, 53697 (2023)
10. “Hybrid 0D/2D metamaterials with room-temperature ferromagnetism” -N. Kapuruge, T. Alba, K. Lasek, **N. Schulz**, Y. Wadumesthri, F. A. Nugera, V. Ortiz, R. Hyde, J. Pan, H. Srikanth, M.H. Phan and H. Gutierrez, **2023 IEEE Nanotechnology Materials and Devices** 817 (2023)
11. “Intrinsic Berry curvature driven anomalous Nernst thermopower in the semimetallic Heusler alloy CoFeVSb” -**A. Chanda**, J. Nag, A. Alam, K.G. Suresh, M.H. Phan and **H. Srikanth**, **Physical Review B (LETTER)** **107**, L220403 (2023)
<https://doi.org/10.1103/PhysRevB.107.L220403>
12. “Influence of hard-soft layer ordering on magnetization reversal of bimagnetic nanoparticles: implications for biomedical/theranostic applications” -C. Kons, K. Krycka, **J. Robles**, N. Ntallis, M. Pereiro, M.H. Phan, **H. Srikanth**, J.A. Borchers, D.A. Arena, **ACS Applied Nanomaterials** (June 2023) DOI: 10.1021/acsanm.3c00510
13. “Surface termination-enhanced magnetism at nickel ferrite/2D nanomaterial interfaces: implications for spintronics” -**N. Schulz**, **A. Chanda**, G. Datt, C.S. Ong, F. Sorgenfrei, S. Ambardar, D.V. Voronine, O. Eriksson, T. Sarkar, V. Kamalakar, M.H. Phan and **H. Srikanth**, **ACS Applied Nanomaterials** (June 2023) <https://doi.org/10.1021/acsanm.3c01352>
14. “Competing magnetic interactions and field-induced metamagnetic transition in highly crystalline phase-tunable iron oxide nanorods” -**S. Attanayake**, **A. Chanda**, T. Hulse, R. Das, M.H. Phan and **H. Srikanth**, **Nanomaterials** **13**, 1340 (2023)
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17. “Effects of annealing temperature on the magnetic properties of highly crystalline biphasic iron oxide nanorods” -**S.B. Attanayake**, **A. Chanda**, R. Das, M.H. Phan and **H. Srikanth**, **AIP Advances** **13**, 025333 (2023)
18. “Magnetism and spin dependent transport phenomena across Verwey and Morin transitions in iron oxide/Pt bilayers” -**A. Chanda**, **Chang-Ming Hung**, Anh Tuan Dong, S. Cho, **H. Srikanth** and M.H. Phan, **Journal of Magnetism and Magnetic Materials** **568**, 170370 (2023)

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19. “Emergence of asymmetric skew scattering dominated anomalous Nernst effect in spin gapless semiconductors Co_{1+x}Fe_{1-x}CrGa” -**A. Chanda**, Deepika Rani, J. Nag, A. Alam, K.G. Suresh, M.H. Phan and **H. Srikanth**, **Physical Review B** **106**, 134416 (2022)
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21. "Macrospin model of an assembly of magnetically coupled core-shell nanoparticles" -N. Ntallis, C. Kons, H. Srikanth, M.H. Phan, D.A. Arena and M. Pereiro, **Physical Review B** **106**, 104402 (2022) <https://doi.org/10.1103/PhysRevB.106.104402>
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24. "Emergent magnetic properties of biphasic iron oxide nanorods" -*S.B. Attanayake, A. Chanda, R. Das*, M.H. Phan and **H. Srikanth**, **AIP Advances** **12**, 035136 (2022) <https://doi.org/10.1063/9.0000256>
25. "Spin Seebeck Effect in Iron Oxide Thin Films: Effects of phase transition, phase coexistence and surface magnetism" -*A. Chanda, D. DeTellem, Y. Pham, J. Shoup, A.T. Duong, R. Das, S. Cho, D.V. Voronine, M. Tuan Trinh, D. Arena, S. Witanachchi, H. Srikanth* and M. H. Phan, **ACS Applied Materials and Interfaces** <https://doi.org/10.1021/acsami.1c23284> (March 2022)
26. "Surface magnetic anisotropy-mediated spin Hall magnetoresistance and spin Seebeck effects in a YIG/Pt heterostructure" -*V. Kalappattil, R. Das*, M.H. Phan and **H. Srikanth**, **Journal of Magnetism and Magnetic Materials** **551**, 169173 (2022); <https://doi.org/10.1016/j.jmmm.2022.169173>
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28. "Thermal generation of spin current and magnon propagation length in compensated ferrimagnetic Gd₃Fe₅O₁₂ thin films" -*A. Chanda, N. Schulz, C. Holzmann, J. Seyd, M. Albrecht, M.H. Phan and H. Srikanth*, **IEEE Transactions on Magnetics** <https://ieeexplore.ieee.org/document/9686649#:~:text=DOI%3A%2010.1109/TMAG.2022.3144835> DOI: [10.1109/TMAG.2022.3144835](https://doi.org/10.1109/TMAG.2022.3144835) (January 2022)
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33. “Tunable competing magnetic anisotropies and spin reconfigurations in ferrimagnetic Fe_{100-x}Gd_x alloy films” -**A. Chanda**, J. E. Shoup, N. Schulz, D. A. Arena and **H. Srikanth**, **Physical Review B** **104**, 094404 1-14 (2021)
34. “Competing magnetic interactions and emergent phase diagrams in double perovskite Y₂Ni_xCo_{1-x}MnO₆” -**R.P. Madhogaria, N.S. Bingham, R. Das**, M.H. Phan and **H. Srikanth**, **Journal of Alloys and Compounds** **888**, 161624 1-9 (2021)
35. “Enhanced magnetocaloric performance in nanocrystalline/amorphous Gd₃Ni/Gd₆₅Ni₃₅ composite microwires” -Y.F. Wang, Y.Y. Yu, H. Belliveau, N.T.M. Duc, H.X. Shen, J.F. Sun, J.F. Liu, F.X. Qin, S.C. Yu, **H. Srikanth** and M.H. Phan, **Journal of Science: Advanced Materials and Devices** (2021) <https://doi.org/10.1016/j.jsamd.2021.07.010>
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38. “Hybrid magnetic nanoparticles as efficient nanoheaters in biomedical applications” (mini-review) -**G.C. Lavorato, R. Das, J. Alonso Masa**, M.H. Phan and **H. Srikanth**, **Nanoscale Advances** **3**, 867 1-22 (2021)
39. “Role of magnetic anisotropy on the hyperthermia efficiency in spherical Fe_{3-x}Co_xO₄ (x=0-1) nanoparticles” -Raja Das, Ngoc Pham Kim, S. Attanayake, M.H. Phan and **H. Srikanth**, **Applied Sciences** **11**, 930 (2021)
40. “Hollow Magnetic Nanoparticles” -H. Khurshid, Z. Nemati, O. Iglesias, J. Alonso, M.H. Phan and **H. Srikanth**, (Book Chapter in “**New Trends in Nanoparticle Magnetism**” - Edited by Davide Peddis, Sara Laureti and Dino Fiorani (pages 137-158)(Springer, 2021)
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