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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Thermodynamic evidence for a two-component superconducting order parameter in Sr₂RuO₄** *NATURE PHYSICS*
Ghosh, S., Shekhter, A., Jerzembeck, F., Kikugawa, N., Sokolov, D. A., Brando, M., Mackenzie, A. P., Hicks, C. W., Ramshaw, B. J.
2021; 17 (2): 199-+
- **One-component order parameter in URu₂Si₂ uncovered by resonant ultrasound spectroscopy and machine learning** *SCIENCE ADVANCES*
Ghosh, S., Matty, M., Baumbach, R., Bauer, E. D., Modic, K. A., Shekhter, A., Mydosh, J. A., Kim, E., Ramshaw, B. J.
2020; 6 (10): eaaz4074
- **Strong increase in ultrasound attenuation below T_c in Sr₂RuO₄: Possible evidence for domains** *PHYSICAL REVIEW B*
Ghosh, S., Kiely, T. G., Shekhter, A., Jerzembeck, F., Kikugawa, N., Sokolov, D. A., Mackenzie, A. P., Ramshaw, B. J.
2022; 106 (2)
- **Elastocaloric determination of the phase diagram of Sr₂RuO₄.** *Nature*
Li, Y., Garst, M., Schmalian, J., Ghosh, S., Kikugawa, N., Sokolov, D. A., Hicks, C. W., Jerzembeck, F., Ikeda, M. S., Hu, Z., Ramshaw, B. J., Rost, A. W., Nicklas, et al
2022; 607 (7918): 276-280
- **Strong magnetoelastic coupling in Mn₃X (X = Ge, Sn)** *PHYSICAL REVIEW B*
Theuss, F., Ghosh, S., Chen, T., Tchernyshyov, O., Nakatsuji, S., Ramshaw, B. J.
2022; 105 (17)
- **Role of correlations in determining the Van Hove strain in Sr₂RuO₄** *PHYSICAL REVIEW B*
Barber, M. E., Lechermann, F., Streltsov, S., Skornyakov, S. L., Ghosh, S., Ramshaw, B. J., Kikugawa, N., Sokolov, D. A., Mackenzie, A. P., Hicks, C. W., Mazin, I. I.
2019; 100 (24)
- **Spatial control of heavy-fermion superconductivity in CeIrIn₅** *SCIENCE*
Bachmann, M. D., Ferguson, G. M., Theuss, F., Meng, T., Putzke, C., Helm, T., Shirer, K. R., Li, Y., Modic, K. A., Nicklas, M., Koenig, M., Low, D., Ghosh, et al
2019; 366 (6462): 221-+
- **Quadratic Magneto-Optic Kerr Effect Investigations of Fe(100) Grown on Ir(100)**
Pradeep, A. V., Ghosh, S., Ajesh, K. G., Kumar, P.
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.2017
- **Simple quadratic magneto-optic Kerr effect measurement system using permanent magnets** *REVIEW OF SCIENTIFIC INSTRUMENTS*

Pradeep, A. V., Ghosh, S., Kumar, P.
2017; 88 (1): 013901