

Biographical Sketch

Boris Sinkovic

Phone: (860) 486-6344, e-mail: boris.sinkovic@uconn.edu

University of Connecticut

Department of Physics

Storrs, CT 06269-3046

Professional Preparation:

University of Zagreb, Croatia	Diploma in Chemistry	July 1979
University of Hawaii	Ph.D. in Chemistry	Dec. 1986
AT&T Bell Laboratories	Condensed Matter Physics	Jan. 1987 – Dec. 1988
Brookhaven Natl. Lab	Condensed Matter Physics	Jan. 1989 – Aug. 1990

Appointments:

1997 -	Associate Professor	University of Connecticut, Dept. of Physics.
1990-'97	Assistant Professor	New York University, Dept. of Physics.
1989-'90	Research Fellow	Brookhaven National Laboratory, Physics.
1987-'89	Postdoctoral Member	AT&T Bell Laboratories, Murray Hill, NJ
1982-'86	Research Assistant	University of Hawaii, Department of Chemistry

Professional Societies: American Physical Society, Materials Research Society, American Vacuum Society

10 Selected Publications:

1. "Multiband Fermi surface in 1T -VSe₂ and its implication for the charge density wave phase" T. Yilmaz, E. Vescovo, and B. Sinkovic, Phys. Rev. B107, 165109 (2023).
2. "Spectroscopic evidence of highly correlated electrons in VSe₂" T. Yilmaz, E. Vescovo, J. T. Sadowski, and B. Sinkovic, Phys. Rev. B105, 245114 (2022).
3. "Realization of a Type-II Nodal-Line Semimetal in Mg₃Bi₂" T-R. Chang, I. Pletikosic, T. Kong, G. Bian, A. Huang, J. Denlinger, S. K. Kushwaha, B. Sinkovic, H-T. Jeng, T. Valla, W. Xie, and R. J. Cava, Adv. Sci. 6, 1800897 (2019).
4. Absence of a Proximity Effect for a Thin-Films of a Bi₂Se₃ Topological Insulator Grown on Top of a Bi₂Sr₂CaCu₂O_{8+δ} Cuprate Superconductor" T. Yilmaz, I. Pletikosić, A. P. Weber, J. T. Sadowski, G. D. Gu, A. N. Caruso, B. Sinkovic, and T. Valla, Phys. Rev. Lett. 113, 067003 (2014)
5. "Field Cooling Induced Changes in the Antiferromagnetic Structure of NiO Films", W. Zhu, L. Seve, R. Sears, B. Sinkovic and S. S. P. Parkin, Phys. Rev. Lett. 86, 5389 (2001).

6. "Photoemission electron microscope for the study of magnetic materials", S. Andersa, H. A. Padmore, R. M. Duarte, T. Renner, T. Stammer, A. Scholl, M. R. Scheinfein, J. Stohr, L. Seve and B. Sinkovic, *Rev. Sci. Instr.* 70, 3973 (1999).
7. "Spin-resolved photoemission on antiferromagnets: direct observation of Zhang-Rice singlet in CuO" L. H. Tjeng, B. Sinkovic, N. B. Brookes, J. B. Goedkoop, R. Hesper, E. Pellegrin, F.M.F. de Groot, S. Altieri, S. L. Hulbert, E. Shekel, and G. A. Sawatzky, *Phys. Rev. Lett.* 78, 1126, (1997).
8. "Magnetic Structure of Oxidized Fe(001)" B. Sinkovic, P.D. Johnson, N.B. Brookes, A. Clarke and N. V. Smith, *Phys. Rev. Lett* 65, 1647 (1990).
9. "Exchange-Split Adsorbate Bands: The Role of Substrate Hybridization", P.D. Johnson, A. Clarke, N.B. Brookes, S. L. Hulbert, B. Sinkovic and N. V. Smith *Phys. Rev. Lett.* 61, 2257(1988).
10. "Observation of spin polarized photoelectron diffraction", B. Sinkovic, B. Hermsmeier, and C. S. Fadley, *Phys. Rev. Lett.* 55, 1227 (1985).

Synergistic Activities:

- * Member of organizing committee for *Annual ('96) Users Meeting* of the National Synchrotron Radiation Source (NSLS).
- * Organized one-day *workshop* on application of synchrotron radiation to study of magnetism at NSLS/BNL with speakers from the US and abroad. A report on the workshop appeared in the Sept. 1996 issue of the *Synchrotron Radiation News*,
- * Program Committee for the 44th Annual Conference on Magnetism and Magnetic Materials to be held in San Jose, CA, Nov.'99.
- * Co-Editor with Z. Hussain, P. D. Johnson and S. D. Kevan of the special issue of *Journal of Electron Spectroscopy and Related Phenomena* to honor Charles S. Fadley and Neville V. Smith on their 60th birthdays.
- * Member of the executive committee of the Magnetic Interfaces and Nanostructures Division of the American Vacuum Society (elected October 2003).
- * Extensive (40 years) national and international collaboration at synchrotron radiation research facilities: SSRL, NSLS-I, BESSY, ESRF, ALS and NSLS-II, including running PI's photoemission spectrometers at: ALS (PEEM spectrometer), NSLS-I and ESRF (spin-ARPES spectrometers).