Publication List—8 February 2024

David Burnham Tanner

Book:

1. *Optical Effects in Solids,* David B. Tanner (Cambridge University Press, Cambridge, 2019).

Books Edited:

1. *Electrical Transport and Optical Properties of Inhomogeneous Media,* edited by J.C. Garland and D.B. Tanner (American Institute of Physics, New York, 1978).
2. *ETOPIM2—Proceedings of the Second International Conference on the Electrical Transport and Optical Properties of Inhomogeneous Media,* edited by J. Lafait and D.B. Tanner (North-Holland, Amsterdam, 1989).
3. *Axions 2010,* edited by David B. Tanner and K.A. van Bibber (American Institute of Physics, New York, 2010).

Invited Review Articles:

1. "Optical properties of one-dimensional systems," D.B. Tanner in *Extended Linear Chain Compounds, Vol. 2,* edited by Joel S. Miller (Plenum Press, New York, 1982) pp. 205–258.
2. "Far-infrared properties of inhomogeneous materials," G.L. Carr, S. Perkowitz, and D.B. Tanner in *Infrared and Millimeter Waves, Vol. 13,* edited by Kenneth J. Button (Academic Press, Orlando, 1985) pp. 171–263.
3. "Infrared properties of high-T_c superconductors," T. Timusk and D.B. Tanner in *Physical Properties of High-Temperature Superconductors I,* edited by Donald M. Ginsberg (World Scientific, Singapore, 1989) pp. 339–407.
4. "Optical properties of high-temperature superconductors," D.B. Tanner and T. Timusk in *Physical Properties of High-Temperature Superconductors III,* edited by Donald M. Ginsberg (World Scientific, Singapore, 1992) pp. 363–469.
5. "Multicolored electrochromism in polymers: Structures and devices," A.A. Argun, P-H. Aubert, B.C. Thompson, I. Schwendeman, C.L. Gaupp, J. Hwang, N.J. Pinto, D.B. Tanner, A.G. MacDiarmid, and J.R. Reynolds, *Chem. Mater.* **16**, 4401–4412 (2004).
6. "Observation of Gravitational Waves from a Binary Black Hole Merger," B.P. Abbott *et al.* (the LIGO Scientific Collaboration & the Virgo Collaboration) in *Centennial of General Relativity: A Celebration* edited by César Augusto Zen Vasconcellos (World Scientific, Singapore, 2017) pp. 291–312. (LIGO-P1600247-v1)

Theses:

1. *Temperature dependence of the resistivity of silver films,* M.S., University of Virginia, 1967.
2. *Some size effects in metals in the far infrared*, Ph.D., Cornell University, 1972.

Papers:

1. "Electrical resistivity of silver films," D.B. Tanner and D.C. Larson, *Phys. Rev.* **166**, 652–655 (1968).
2. "Far-infrared measurements of the energy gap of V_3Si," D.B. Tanner and A.J. Sievers, *Phys. Rev. B* **8**, 1978–1981 (1973).
3. "Fluctuation contribution to the far-infrared transmission of lead films," D.B. Tanner, *Phys. Rev. B* **8**, 5045–5054 (1973).
4. "Infrared conductivity of tetrathiofulvalene tetracyanoquinodimethane (TTF-TCNQ) films," D.B. Tanner, C.S. Jacobsen, A.F. Garito, and A.J. Heeger, *Phys. Rev. Lett.* **32**, 1301–1305 (1974).
5. "Single-crystal reflectance studies of tetrathiofulvalene tetracyanoquinodimethane," C.S. Jacobsen, D.B. Tanner, A.F. Garito, and A.J. Heeger, *Phys. Rev. Lett.* **33**, 1559–1562 (1974).
6. "Far-infrared absorption in small metallic particles," D.B. Tanner, A.J. Sievers, and R.A. Buhrman, *Phys. Rev. B* **11**, 1330–1341 (1975).
7. "Infrared studies of the energy gap in tetrathiofulvalene-tetracyanoquinodimethane (TTF-TCNQ)," D.B. Tanner, C.S. Jacobsen, A.F. Garito, and A.J. Heeger, *Phys. Rev. B* **13**, 3381–3404 (1976).
8. "The 38 K transition in TTF-TCNQ viewed as a percolation phenomenon," F.P. Pan, D. Stroud, and D.B. Tanner, *Solid State Commun.* **20**, 271–275 (1976).
9. "Infrared opaque heat shield with high thermal conductance for use in changing magnetic fields," D.B. Tanner, G.G. Ihas, and K.A. Muething, *Rev. Sci. Instrum.* **48**, 610–612 (1977).
10. "Infrared studies of the energy gap and electron-phonon interaction in potassium-tetracyanoquinodimethane (K-TCNQ)," D.B. Tanner, C.S. Jacobsen, A.A. Bright, and A.J. Heeger, *Phys. Rev. B* **16**, 3283–3290 (1977).
11. "The critical fields of superconducting palladium hydride," D.R. Krahn, R.L. Henry, D.B. Tanner, and P.E. Wigen, *Phys. Stat. Sol. (a)* **46**, 209–212 (1978).
12. "A lamellar grating interferometer for the far-infrared," R.L. Henry and D.B. Tanner, *Infrared Phys.* **19**, 163–174 (1979).
13. "Far-infrared measurements of Holstein processes and low energy $\alpha^2_{tr}F(\omega)$ structure in V_3Si," S.W. McKnight, S. Perkowitz, D.B. Tanner, and L.R. Testardi, *Phys. Rev. B* **19**, 5689–5693 (1979).

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14. "Optical properties of the semiconducting 'metal-like' complex $(NMe_3H)(I)(TCNQ)$," D.B. Tanner, J.E. Deis, A.J. Epstein, and J.S. Miller, *Solid State Commun.* **31**, 671–675 (1979).
15. "Comparison of Fourier and laser spectroscopy in the far-infrared–submillimeter range," S. Perkowitz, R.L. Henry, and D.B. Tanner, *Appl. Opt.* **18**, 2349–2351 (1979).
16. "Far-infrared ordinary-ray optical constants of quartz," K.D. Cummings and D.B. Tanner, *J. Opt. Soc. Am.* **70**, 123–126 (1980).
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18. "Search for maximum metallic resistance in random metal-particle composites," J.C. Garland, W.J. Gully, and D.B. Tanner, *Phys. Rev. B* **22**, 507–511 (1980).
19. "Absorption of far-infrared radiation by random metal particle composites," N.E. Russell, J.C. Garland, and D.B. Tanner, *Phys. Rev. B* **23**, 632–639 (1981).
20. "Critical behavior of the dielectric constant of a random composite near the percolation threshold," D.M. Grannan, J.C. Garland, and D.B. Tanner, *Phys. Rev. Lett.* **46**, 375–378 (1981).
21. "Dimensionality crossover in the organic superconductor tetramethyltetraselenafulvalene hexafluorophosphate $[(TMTSF)_2PF_6]$," C.S. Jacobsen, D.B. Tanner, and K. Bechgaard, *Phys. Rev. Lett.* **46**, 1142–1145 (1981).
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26. "Far-infrared absorption by fine-metal-particle composites," P.N. Sen and D.B. Tanner, *Phys. Rev. B* **26**, 3582–3587 (1982).
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29. "Poly(1,6-heptadiyne), a free-standing polymer film dopable to high electrical conductivity," H.W. Gibson, F.C. Bailey, A.J. Epstein, H. Rommelmann, S. Kaplan, J. Harbour, X.Q. Yang, D.B. Tanner, and J.M. Pochan, *J. Am. Chem. Soc.* **105**, 4417–4431 (1983). See also *J. Am. Chem. Soc.* **105**, 6531 (1983).
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31. "Role of solitons in nearly metallic polyacetylene," A.J. Epstein, H. Rommelmann, R. Bigelow, H.W. Gibson, D.M. Hoffman, and D.B. Tanner, *Phys. Rev. Lett.* **50**, 1866–1869 (1983).
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36. "Comment about the far-infrared absorption by small particles," D.B. Tanner, *Phys. Rev. B* **30**, 1042–1044 (1984).
37. "Source of a problem with Fourier transform spectroscopy," D.B. Tanner and R.P. McCall, *Appl. Opt.* **23**, 2363–2368 (1984).
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47. "Transition to a gapless Peierls insulator in heavily-doped polyacetylene," X.Q. Yang, D.B. Tanner, M.J. Rice, H.W. Gibson, A. Feldblum, and A.J. Epstein, *Solid State Commun.* **61**, 335–340 (1987).
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64. "Comment on 'Observation of a Far-Infrared Sphere Resonance in Superconducting $La_{2-x}Sr_xCuO_{4-y}$ Particles,'" G.L Carr and D.B. Tanner, *Phys. Rev. Lett.* **62**, 2763 (1989).
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69. "New Horizons: Scalar and vector ultralight dark matter," D. Antypas, A. Banerjee, C. Bartram, M. Baryakhtar, J. Betz, J.J. Bollinger, C. Boutan, D. Bowring, D. Budker, D. Carney, G. Carosi, S. Chaudhuri, S. Cheong, A. Chou, M. D. Chowdhury, R.T. Co, J.R. Crespo Lopez-Urrutia, M. Demarteau, N. DePorzio, A.V. Derbin, T. Deshpande, M.D. Chowdhury, L. Di Luzio, A. Diaz-Morcillo, J.M. Doyle, A. Drlica-Wagner, A. Droster, N. Du, B. Döbrich, J. Eby, R. Essig, G.S. Farren, N.L. Figueroa, J.T. Fry, S. Gardner, A.A. Geraci, A. Ghalsasi, S. Ghosh, M. Giannotti, B. Gimeno, S.M. Griffin, D. Grin, H. Grote, J.H. Gundlach, M. Guzzetti, D. Hanneke, R. Harnik, R. Henning, V. Irsic, H. Jackson, D.F. Jackson Kimball, J. Jaeckel, M. Kagan, D. Kedar, R. Khatiwada, S. Knirck, S. Kolkowitz, T. Kovachy, S.E. Kuenstner, Z. Lasner, A.F. Leder, R. Lehnert, D. R. Leibrandt, E. Lentz, S.M. Lewis, Z. Liu, J. Manley, R.H. Maruyama, A.J. Millar, V.N. Muratova, N. Musoke, S. Nagaitsev, O. Noroozian, C.A. J. O'Hare, J.L. Ouellet, K.M.W. Pappas, E. Peik, G. Perez, A. Phipps, N. M. Rapidis, J. M. Robinson, V. H. Robles, K.K. Rogers, J. Rudolph, G. Rybka, M. Safdari, M. Safdari, M.S. Safronova, C.P. Salemi, P.O. Schmidt, T. Schumm, A. Schwartzman, J. Shu, M. Simanovskaia, J. Singh, S. Singh, M.S. Smith, W.M. Snow, Y.V. Stadnik, C. Sun, A.O. Sushkov, T.M.P. Tait, V. Takhistov, D.B. Tanner, D.J. Temples, P.G. Thirolf, J.H. Thomas, M. . Tobar, O. Tretiak, Y.-D. Tsai, J.A. Tyson, M. Vandegar, S. Vermeulen, L. Visinelli, E. Vitagliano, Z. Wang, D.J. Wilson, L. Winslow, S. Withington, M. Wooten, J. Yang, J. Ye, B.A. Young, F. Yu, M.H. Zaheer, T. Zelevinsky, Y. Zhao, and K. Zhou, (Snowmass white paper), arXiv:2203.14915 [hep-ex] (2022).
70. "Axion Dark Matter," C.B. Adams, A. Agrawal, R. Balafendiev, C. Bartram, M. Baryakhtar, H. Bekker, P. Belov, K.K. Berggren, A. Berlin, C. Boutan, D. Bowring, D. Budker, G. Carosi, S.S. Chakrabarty, S. Chaudhuri, S. Cheong, A. Chou, R.T. Co, J. Conrad, R.T. D'Agnolo, M. Demarteau, N. DePorzio, A.V. Derbin, L. Di Luzio, A. Diaz-Morcillo, A. Droster, N. Du, K. Dunne, B. Döbrich, S.A.R. Ellis, R. Essig, J. Fan, J.W. Foster, J.T. Fry, A. Gallo Rosso, J.M. Barcel, I.G. Irastorza, S. Gardner, A.A. Geraci, S. Ghosh, M. Giannotti, B. Gimeno, D. Grin, H. Grote, M. Guzzetti, M.H. Awida, R. Henning, S. Hoof, V. Irsic, H. Jackson, D.F. Kimball, J. Jaeckel, M. Kagan, Y. Kahn, R. Khatiwada, S. Knirck, T. Kovachy, P. Krueger, S.E. Kuenstner, N.A. Kurinsky, R.K. Leane, A.F. Leder, C. Lee, K.W. Lehnert, E. Lentz, S.M. Lewis, A. Lindner, J. Liu, M. Lynn, B. Majorovits, D.J.E. Marsh, R.H. Maruyama, B.T. McAllister, A.J. Millar, D.W. Miller, S. Morampudi, G. Mueller, V.N. Muratova, S. Nagaitsev, O. Noroozian, C.A.J. O'Hare, N.S. Oblath, J.L. Ouellet, K.M.W. Pappas, H.V. Peiris, K. Perez, A. Phipps, M.J. Pivovaroff, N.M. Rapidis, V.H. Robles, K.K. Rogers, J. Rudolph, J. Ruz, G. Rybka, M. Safdari, B.R. Safdi, M.S. Safronova, C.P. Salemi, J. Schaffran, P. Schuster, A. Schwartzman, J. Shu, M. Simanovskaia, J. Singh, S. Singh, K. Sinha, J.T. Sinnis, M. Siodlaczek, M.S. Smith, W.M. Snow, A. Sonnenschein, D.H. Speller, Y.V. Stadnik, A.O. Sushkov, T.M.P. Tait, V. Takhistov, D.B. Tanner, D.J. Temples, J.H. Thomas, M.E. Tobar, N. Toro, Y-D. Tsai, K. van Bibber, M. Vandegar, L. Visinelli, E. Vitagliano, J.K. Vogel,

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71. "Cosmic Explorer: A Submission to the NSF MPSAC ngGW Subcommittee," Matthew Evans, Alessandra Corsi, Chaitanya Afle, Alena Ananyeva, K.G. Arun, Stefan Ballmer, Ananya Bandopadhyay, Lisa Barsotti, Masha Baryakhtar, Edo Berger, Emanuele Berti, Sylvia Biscoveanu, Ssohrab Borhanian, Floor Broekgaarden, Duncan A. Brown, Craig Cahillane, Lorna Campbell, Hsin-Yu Chen, Kathryne J. Daniel, Arnab Dhani, Jennifer C. Driggers, Anamaria Effler, Robert Eisenstein, Stephen Fairhurst, Jon Feicht, Peter Fritschel, Paul Fulda, Ish Gupta, Evan D. Hall, Giles Hammond, Otto A. Hannuksela, Hannah Hansen, Carl-Johan Haster, Keisi Kacanja, Brittany Kamai, Rahul Kashyap, Joey Shapiro Key, Sanika Khadkikar, Antonios Kontos, Kevin Kuns, Michael Landry, Philippe Landry, Brian Lantz, Tjonnie G. F. Li, Geoffrey Lovelace, Vuk Mandic, Georgia L. Mansell, Denys Martynov, Lee McCuller, Andrew L. Miller, Alexander Harvey Nitz, Benjamin J. Owen, Cristiano Palomba, Jocelyn Read, Hemantakumar Phurailatpam, Sanjay Reddy, Jonathan Richardson, Jameson Rollins, Joseph D. Romano, Bangalore S. Sathyaprakash, Robert Schofield, David H. Shoemaker, Daniel Sigg, Divya Singh, Bram Slagmolen, Piper Sledge, Joshua Smith, Marcelle Soares-Santos, Amber Strunk, Ling Sun, David Tanner, Lieke A. C. van Son, Salvatore Vitale, Benno Willke, Hiro Yamamoto, and Michael Zucker, Cosmic Explorer Collaboration, arXiv:2306.13745 [astro-ph.IM].

72. "Characterizing Gravitational Wave Detector Networks: From $A^{\#}$ to Cosmic Explorer," Ish Gupta, Chaitanya Afle, K.G. Arun, Ananya Bandopadhyay, Masha Baryakhtar, Sylvia Biscoveanu, Ssohrab Borhanian, Floor Broekgaarden, Alessandra Corsi, Arnab Dhani, Matthew Evans, Evan D. Hall, Otto A. Hannuksela, Keisi Kacanja, Rahul Kashyap, Sanika Khadkikar, Kevin Kuns, Tjonnie G. F. Li, Andrew L. Miller, Alexander Harvey Nitz, Benjamin J. Owen, Cristiano Palomba, Anthony Pearce, Hemantakumar Phurailatpam, Binod Rajbhandari, Jocelyn Read, Joseph D. Romano, Bangalore S. Sathyaprakash, David H. Shoemaker, Divya Singh, Salvatore Vitale, Lisa Barsotti, Emanuele Berti, Craig Cahillane, Hsin-Yu Chen, Peter Fritschel, Carl-Johan Haster, Philippe Landry, Geoffrey Lovelace, David McClelland, Bram J J Slagmolen, Joshua Smith, Marcelle Soares-Santos, Ling Sun, David Tanner, Hiro Yamamoto, and Michael Zucker, arXiv:2307.10421 [gr-qc]. (CE Document No. P2300019-v2)