

PUBLICATION LIST FOR BOB JOYNT, 3/21/21

H-index of 47 and 7,700 total citations

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171. Achieving a quantum smart workforce, Clarice D. Aiello *et al.*, arXiv:2010.13778, submitted to npj Quant. Info., 2020
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PATENTS

1. U.S. Patent No. 6,597,010: "Solid-state quantum dot devices and quantum computing using nanostructured logic gates", awarded 7/22/2003. Inventors: M.A. Eriksson, M. Friesen, R. Joynt, M. Lagally, D. van der Weide, P. Rugheimer, and D. Savage.
2. U.S. Patent No. 7,137,697: "A self-contained, patterned quantum dot device for spin to charge transduction, readout and initialization, for use in quantum computing and quantum information processing", awarded 11/14/2007. Inventors: M. Friesen, C. Tahan, R. Joynt, and M.A. Eriksson.
3. U.S. Patent Application No. P190129US01: "Silicon-germanium heterostructures with quantum wells having oscillatory germanium concentration profiles for increased valley splitting." Inventors: M. Friesen, D. Savage, S.N. Coppersmith, R. Joynt, and M.A. Eriksson. Patent pending.

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Solid State Physics (551)
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Modern Physics for Engineers (205)
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Graduate School Fellowship Committee, 1990-1992, Chairman, 1992

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Admissions Committee, 1986-8, 1994-95, 2000-2, 2004-6, 2008-9; Chair, 2006-7
Associate Chair for Alumni Relations 2017-present
Library Committee, Chair, 2001-2002; Chair, 2004
Faculty Recognition Committee, 2000-2004
Department Secretary, 1986-7
TA Policy and Procedures Committee 1987-8
Introductory Course Committee 1987-8
Instructional Program Coordinator, 2006
New Staff Committee, 1988-90
Prelim Committee, 1989-1990
Graduate Program Committee Chair, 1990-1991, 2001-2003, 2005-6
Physics Council 1990-1992, 2008-2010
Promotions Committee 1992-1993
Qualifier Committee 1991-1992, Chair, 1992-1993, 2003-2005
Long-Range Planning Committee, 1995-96
Space Committee, 1995-97
Salary Committee, 1990-1992, 1995-97
Graduate Program Coordinator 1996-98
Awards Committee, 2007-2009
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Public Lecture on Superconductivity, Madison, March, 1988
Article on Superconductivity for L&S Magazine, April, 1988
Radio Interview on Superconductivity, WHA, Madison, May, 1988
Wisconsin Public Service Lecture, Rhinelander, WI, October, 1988
Lecturer, Astronautics, Inc., Madison, October 1988
Book reviews: *Science*, *American Journal of Physics*
Committee on Metrics, National Science Foundation, 2001-2
Materials Research Science and Engineering Centers, March, 1995-97
DOE review committee for the Materials Science Division, Argonne National
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Wisconsin State Science Olympiad Event Organizer, 2006, 2008
Radio Interview on Quantum Computing, WORT, Madison, November, 2008

International Advisory Board, Shanghai Center for Complex Physics, 2012-
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