

DAFTAR PUSTAKA

- Anderson, R.D. & C.P. Mitchener. (1994). "Research on Science Teacher Education." *Handbook of Research on Science Teaching and Learning*. Edited by: D. L. Gabel. New York: Macmillan Publishing Company.
- Arends, R. I. (1997). *Classroom Instruction and Management*. New York: The McGraw-Hill Companies, Inc.
- Arons, A.B. (1983). "Students patterns of thinking and reasoning, Part One." *The Physics Teacher*. 21(12), 576-581.
- Arons, A.B. (1984a). "Students patterns of thinking and reasoning, Part Two." *The Physics Teacher*. 22(1), 21-26.
- Arons, A.B. (1984b). "Students patterns of thinking and reasoning, Part Three." *The Physics Teacher*. 22(2), 88-93.
- Bandura, A. (1977). *Social Learning Theory*. New York: Prentice-Hall, Inc
- Brotosiswoyo, B.S. (2002). "Hakikat Pembelajaran Fisika di Perguruan Tinggi." Dalam *Hakikat Pembelajaran MIPA & Kiat Pembelajaran Fisika di Perguruan Tinggi*, disusun oleh Tim Penulis Pekerti Bidang MIPA. Jakarta: Proyek Pengembangan Universitas Terbuka, Depdiknas.
- Bernard, C.H. & C.D. Epp. (1995). *Laboratory Experiments in College Physics*. New York: John Wiley & Sons, Inc.
- Depdiknas. (2003a). *Kurikulum 2004, Standar Kompetensi Mata Pelajaran Sains SMP dan MTs*. Jakarta: Departemen Pendidikan Nasional.
- Depdiknas. (2003b). *Kurikulum 2004, Standar Kompetensi Mata Pelajaran Fisika SMA dan MA*. Jakarta: Departemen Pendidikan Nasional.
- Direktorat Pendidikan Menengah Umum. (1995). *Evaluasi Efektivitas Pengadaan Alat IPA*. Laporan Penelitian. Jakarta: Departemen Pendidikan dan Kebudayaan.
- Gall., M.D., J.P.Gall, & W.R. Borg. (2003). *Educational Research, an introduction*. Seventh Edition. Boston: Allyn and Bacon.



- Gott, R. & S. Dugggan. (1996). "Practical work: its role in the understanding of evidence in science." *Int. J. Sci. Educ.* 18(7), 791-806.
- Hasan, S.H. (1988). *Evaluasi Kurikulum*. Jakarta: Dirjen Dikti, Depdikbud.
- Heuvelen, A.A. (2001). "Millikan Lecture 1999: The Workplace, Student Minds, and Physics Learning Systems." *Am. J. Phys.* 69(11), 1139-1146.
- Hinduan, A.A. (2002). "Pengembangan Kurikulum Program Sarjana Fisika Berdasarkan Kompetensi." Makalah disajikan pada Seminar Lokakarya V MIPA net di Jakarta tanggal 2 – 4 September 2002.
- Hodson, D. (1996). "Practical work in school science: exploring some directions for change." *Int. J. Sci. Educ.* 18(7), 755-760.
- Joyce, B., M. Weil, & B. Showers. (1992). *Models of Teaching*. Fourth Edition. Boston: Allyn and Bacon.
- Jurusan Fisika. (2000). *Kurikulum Program Studi Pendidikan Fisika*. Semarang: Jurusan Fisika, FMIPA, Universitas Negeri Semarang
- Killen, R. (1998). *Effective Teaching Strategies, Lessons from Research and Practice*. Second Edition. Australia: Social Science Press.
- King, J.G. (2001). "Observation, Experiment, and the Future of Physics. John G. King's acceptance speech for the 2000 Oersted Medal presented by the American Association of Physics Teachers, 18 January 2000." *Am. J. Phys.* 69(1), 11-25.
- Lawson, A.E. (1995). *Science Teaching and the Development of Thinking*. California: Wadsworth Publishing Company.
- Lazarowitz, R. & P. Tamir. (1994). "Research on Using Laboratory Instruction in Science." *Handbook of Research on Science Teaching and Learning*. Edited by: D. L. Gabel. New York: Macmillan Publishing Company.
- Liem, T.L. (1981). *Invitations to Science Inquiry*. Massachusetts: Ginn Custom Publishing.
- Lippmann, R.F. (2003). Students' Understanding of Measurement and Uncertainty in the Physics Laboratory: Social construction, underlying concepts, and

- quantitative analysis. Maryland: Department of Physics, University of Maryland. Tersedia: <http://www.physics.umd.edu/perm/dissertation/lippmann.html> [25 September 2003].
- Maloney, D.P., T.L. O'Kuma, C.J. Hieggelke, A.V. Heuvelen. (2001). "Surveying students' conceptual knowledge of electricity and magnetism." *Physics Education Research, American Journal of Physics Supplement*. 69(7), S12-S23.
- Marzano, R.J., D. Pickering, & J. McTighe. (1993). *Assessing Student Outcomes, performance assessment using the dimensions of learning model*. U.S.A.: Association for Supervision and Curriculum Development.
- Mazurek, K., M.A. Winzer, & C. Majorek. (2000). *Educational in a Global Society, a Comparative Perspective*. Boston: Allyn and Bacon.
- McDermott, L.C. (1990). "A perspective on teacher preparation in physics and other sciences: The need for special science courses for teachers." *Am. J. Phys.* 58(8), 734-742.
- McDermott, L.C. (2001). "Oersted Medal Lecture 2001: Physics Education Research – The Key to Student Learning." *Am. J. Phys.* 69(11), 1127- 1137.
- McDermott, L.C. et al. (1996a). *Physics by Inquiry*. Volume I. New York: John Wiley & Sons, Inc.
- McDermott, L.C. et al. (1996b). *Physics by Inquiry*. Volume II. New York: John Wiley & Sons, Inc.
- McDermott, L.C. et al. (2000). "Preparing teachers to teach physics and physical science by inquiry." *Phys. Educ.* 35(6), 411-416.
- Nasoetion, A. H. (2000). "Ilmu Untuk Kehidupan dan Penghidupan." Dimuat dalam *Menggagas Paradigma Baru Pendidikan*. Editor: Sindhunata. Yogyakarta: Penerbit Kanisius.
- National Research Council (NRC). (1996). *National Science Education Standards*. Washington: National Academy Press.
- National Science Teachers Association (NSTA). (1998). NSTA Standards for Science Teacher Preparation Adopted by the NSTA Board of Directors, 1998. Tersedia: <http://www.nvvc.vt.edu/nsta-ncate/november98.htm>. [12 Juni 2003].

- Nur, M. (2004.) "Penerapan Ide-ide Inovatif Pendidikan MIPA dalam Seting Penelitian." Makalah dipresentasikan pada Seminar Naional Pendidikan MIPA yang diselenggarakan oleh FMIPA Unnes pada tanggal 28 Februari 2004.
- Popham, W.J. (1995). *Classroom Assessment, what teachers need to know*. U.S.A.: Allyn and Bacon.
- Puskur. (2001). *Kurikulum Berbasis Kompetensi, Mata Pelajaran Sains Sekolah Dasar*. Jakarta: PusKur - Balitbang, Depdiknas.
- Reif, F. (1995). "Millikan Lecture 1994: Understanding and teaching important scientific thought processes." *Am. J. Phys.* 63(1), 17-32.
- Reif, F. & L. A. Scott. (1999). "Teaching scientific thinking skills: Students and computers coaching each other." *Am. J. Phys.* 67(9), 819-831.
- Ruseffendi, E.T. (2001). *Dasar-dasar Penelitian Pendidikan dan Bidang Non Eksakta Lainnya*. Cetakan ketiga. Semarang: IKIP Semarang Press.
- Ruseffendi, E.T. (1998). *Statistika Dasar untuk Penelitian Pendidikan*. Bandung: IKIP Bandung Press.
- Rustad, S., A. Munandar, & Dwiyanto. 2004. *Analisis Prasarana dan Sarana Pendidikan SD MI, SMP MTS, dan SMA/SMK/MA*. Jakarta: Balitbangnas, Departemen Pendidikan Nasional
- Savinainen, A. & P. Scott. (2002). "The Force Concept Inventory: a tool for monitoring student learning." *Physics Education*. 37(1), 45-52.
- Soedjatmiko, W. (2000). *Pendidikan Tinggi dan Demokrasi dalam Menggagas Paradigma Baru Pendidikan*. Editor Sindhunata. Yogyakarta: Penerbit Kanisius.
- Sriyono & A. Hamid. (2003). "Pemanfaatan Laboratorium dalam Pembelajaran Fisika di SMU." Makalah diseminarkan pada Seminar Nasional Fisika 2003 di Unnes Semarang tanggal 22 Februari 2003.
- Stiggins, R.J. (1994). *Student-Centered Classroom Assessment*. New York: Macmillan College Publishing Company
- Sudjana. (1996). *Metoda Statistika*. Edisi Ke-6. Bandung: Penerbit Tarsito.

- Susanto, H. (2002). *Petunjuk Praktikum Fisika Dasar*. Semarang: Jurusan Fisika Unnes
- Tim Broad Based Education. (2001). *Konsep Pendidikan Kecakapan Hidup (Life Skill Education)*. Jakarta: Departemen Pendidikan Nasional.
- Trowbridge, L.W., R.W. Bybee, & R.B. Sund. (1981). *Becoming a Secondary School Science Teacher*. Third Edition. Columbus: Bell & Howell Company.
- Tyler, F. (1972). *A Laboratory Manual of Physics SI Units*. London: Edward Arnold Limited.

