

DAFTAR PUSTAKA

- Anggraeni, S. (2006). Pengembangan Model Perkuliahan Biologi Umum Berdasarkan Pembelajaran Inkuiiri pada Mahasiswa Calon Guru Biologi. Disertasi Doktor. Bandung: Universitas Pendidikan Indonesia. Tidak diterbitkan
- Anggraeni, S. (2009). Sudahkah Calon Guru Biologi Merencanakan Pembelajaran Biologi yang Sesuai dengan Hakikat Sains?. [Online] [Online] http://eprints.uny.ac.id/12134/1/Bio_Sri%20Anggraeni%20UPI.pdf [14 Mei 2016]
- Adisendjaja Y. H. (2016). *KONSEPSI MAHASISWA CALON GURU BIOLOGI DAN GURU IPA PESERTA PENGEMBANGAN PROFESIONAL GURU TENTANG HAKIKAT SAINS DAN INKUIIRI ILMIAH*. Disertasi Doktor pada SPs UPI: tidak diterbitkan
- Adisendjaja, Y. H., Rustaman, N., Redjeki, S., Satori, D. (2016). Gambaran Pandangan Mahasiswa Calon Guru Biologi dan Guru IPA tentang Inkuiiri Ilmiah. [Online] Tidak diterbitkan. Tersedia: <http://journal.fpmipa.upi.edu/index.php/jpmipa/article/viewFile/660/pdf> [8 Maret 2016]
- Adisendjaja, Y. H., Rustaman, N., Redjeki, S., Satori, D. (2017). Science Teacher' Understanding of Scientific Inquiry In Teacher Professional Development. *Journal of Physics. Conf. Series* 812
- Adisendjaja, Y. H., Suryani, N & Rohmah, E. (2011). Pembelajaran Berbasis Hakikat IPA. Laporan Penelitian PHKI. Tidak diterbitkan
- Anderson, R. D. (2002). Reforming Science Teaching: What Research Says About Inquiry? *Journal of Science Teacher Education*. 13,(1), 1-12
- American Association for the Advancement of Science. (AAAS). (1990). *Science for all Americans: Project 2061*. New York: Oxford University Press
- Amprasto. (2016). *Pengembangan Program Field Trip Berbasis Inkuiiri Untuk Meningkatkan Kemampuan Bekerja Ilmiah Dan Memecahkan Masalah Calon Guru Biologi*. Disertasi Doktor pada SPs UPI: tidak diterbitkan
- Aulia, A N., Adisendjaja, Y. H., Priyandoko, D. (2014). *Analisis Buku Teks Biologi SMP di Kota Bandung Berdasarkan Hakikat Sains*. Formica Education Online. 1 (1)
- Arikunto, S. (2010). *Prosedur Penelitian Pendekatan Praktik*. Jakarta :Rineka Cipta
- Arikunto, S. (2012). *Dasar-dasar Evaluasi Pendidikan*. Jakarta : Bumi Aksara
- Banchi, & Bell, R. (2008). The Many Levels Of Inquiry. *Science and Children*, 46 (2), 26-29

- Baslanti U. (2000). Quantitative Analysis of A Secondary Sholl Science Textbook For Scientific Literacy Themes. *Science Education Congress in 6th-8th Hacettepe University Turkey* 117-124
- Bell, R. Maeng, J.L. & Peters,E.E. (2013). Scientific Inquiry and the Nature of Science". *The Journal of Mathematics and Science*, 13, 5-25
- Buxner, S.R. (2014). Exploring How Research Experiences For Teacher Changes Their Understanding Of The Nature Of Science And Scietific Inquiry. *Journal of Astronomy & Earth Science Education*, 1 (1), 53-68
- Bybee, R. W.(2000). Teaching science as inquiry. In J Minstrell, & E. van Zee (Eds), *Inquiry into inquiry learning and teaching on science*. Washington, DC: American Association for the Advancement of Science.
- Bybee, R. W. (2004). *Scientific Inquiry and Nature of Science: Implications for Teaching, Learning, and Teacher Education*. USA: Springer
- Chabalengula, V.M. & Frackson, M. (2008). Curriculum and Inructional Validity of Scientific Literacy Themes Covered IN Zambian High Scholl Biology Curriculum. *Internatinal Journal of Environmental and Science Education* 3 (4) 207-220
- Chiappeta, E. L, Filman, D.A, & Setha, G.H. (1993). " Do Middle Shool Life Science Textbooks Provide a Balance of Scientific Literacy Themes?". *Journal of research in science teaching* 28, (8), 713-725
- Chin, C.A. & Hmelo-Silver, C.E. (2002). Authentic inquiry: Introduction to the special section. *Science Education*, 86 (2) 171-174
- Cimer, A. (2007). Effective teaching in science: A review of literature. *Journal of Turkis Science Education*, 4 (1), 20-49
- Cochran, W. G (1991). *Teknik Penarikan Sampel*. Jakarta: Universitas Indonesia (U.I Press)
- Colburn, A. (2000). An Inquiry Primer. *Science Scope*. (March 2000), 42-44.
- Crowther, D.T., Lederman, N. G., & Lederman, J. S. (2005). Understanding the True Meaning of Nature of Science, Teaching suggestions to help you highlight nature of science. *Science and Children*. October 2005, 43 50-54
- Dani, D. (2009). Scientific Literacy and Purposes for Teaching Science: A case Study of Lebanese Private Shool Teacher. *International Journal of Environmental and Science Education*, 4 (3) 289-299
- Darmodjo D & Kaligis JRE.(1991). *Pendidikan IPA II*. Jakarta: Dirjen Dikti Depdikbud.
- DIKTI. (2010). Bahan Ajar. [Online]. Diakses dari www.dikti.go.id/files/atur/KTSP-SMK/11.ppt [7Februari 2017]

- Foulds, W. (1996). The Enhancement of Science Process Skill in Primary Teacher Education Students. Edith Cowan University. *Australian Journal of Teacher Education*, 1,(12), 16-23
- Gyllenpalm, J., Wickman, P., & Holmgren, S., (2010). Teacher' Language on Scientific Inquiry: Methods of teaching or methods of inquiry? *Internasional Journal of Science Education*, 12 (9), 1551-1172
- Hackling, M. W. (2005). Working scientifically: Implementing and assessing open investigation work in science, a resource book for teacher of primary and secondary science. Edith Cowen University
- Hayu, A. N,. (2014). Analisis Lembar Kerja Siswa Biologi SMA Negeri Di Kota Cimahi Berdasarkan Hakikat Sains. Skripsi pada Biologi UPI: tidak diterbitkan
- Hodson, D. (1998). Toward a philosophically more valid science curriculum. *Science Education*, 72 (1), 19-40
- Joyce, B.M, Weil & Showers, B. (2000). *Models of Teaching*. Boston-London: Allyn and Bacon.
- Krajcik, J., Blumengeld, P., Marx, R., & Soloway, E. (1994). A collaborative model for helping middle grade teacher learn project-based instruction. *The Elementary School Journal*, 94 (5), 483-498
- Kemendikbud. (2013). Permendikbud No.64 tentang Standar Kompetensi Lulusan Pendidikan Dasar dan Menengah. Jakarta: Kementerian Pendidikan dan Kebudayaan.
- Lawson, A. E. (1995). *Science Teaching and the Development of Thinking*. Belmon California: Wadsworth Publishing Company.
- Lederman, N.G. (2006). "Research on Nature of Science: Reflections on the Past, Anticipations of the Future". *Asia-Pasific Forum Science Learning and Teaching*. 7,(1)
- Lederman, J. S., (2009). Teaching scientific inquiry: Exploration, directed, guided and open-enden levels. In National geographic science: Best practice ans rsearch base (pp 8-20). Hapton Brown Publisher.
- Lederman, N. G., Abd-El-Khalick, F. Bell, R. L. & Schwartz, R. S. (2002). Views of Nature of Science Questionnaire: Toward Valid and Meaningful Assessment of Learners' Conceptions of Nature of Science. *Journal of Research in Science Teaching*. 39,(6), 497-521.
- Lederman, N. G., Antink, A., & Bartos, S. (2012). Nature of science, science inquiry, and socioscientific issues arising from genetic: A pathway to developing a scientifically literate citizenry. *Science & Education*, doi: 10.1007s11191.012.9503.3. [Online]. Available at: http://tl.unv.edu/sites/default/files/Lederman_Anthink_Bartos_2012.pdf
- Lederman, J. S. & Lederman, N. G, (2004). Early Elementary Students' and Teachers' Understanding of Nature of Science and Scientific Inquiry:

- Lesson Learned From Project ICAN. Paper Presented at the Annual Meeting of the National Association for Research in Science Teaching. Vancouver, British Columbia. April, 2004. [Online] <http://msed.iit.edu/projectican/documents/Paper%203.pdf> [7Februari 2017]
- Lederman, J.S., Lederman, N.G., Bartos, S.A., Bartels, S.L. Meyer, A. A., & Schwartz, R. S. (2014). Meaningful Assessment of Learners' Understanding about Scientific Inquiry-The Views About Scientific Inquiry (VASI) Questionnaire. *Journal of Research in Science Teaching*, 51, (1), 65-83.
- Lederman, N. G. (1998). The State of Science Education: Subject Matter without Context, *Electronic Journal of Science Education*, 3 (2), 1-12
- Lei, S. (2011). Assessment practice of advance field Ecology courses. *Education*, 130 (3), 404-414
- Lewis, K. G., (2014). *Developing Questioning, Center for Teaching Effectiveness*, The University of Texas at Austin. [Online]: available at : <http://www.udel.edu/chem/white/U460/Devel-question-skill-UTx.pdf> [22 Juni 2017]
- Matthews, M.(1994). *Science teaching : The role history and phosophy of science*. New York: Routledge.
- Maturradiyah, N. & Rusilowati, A. (2015). Analisis Buku Ajar Fisika SMA Kelas XII di Kabupaten Pati Berdasarkan Muatan Literasi Sains. *Unnes Physics Education Journal* (4) 16-20
- Millar, R. (2006). Twenty first century science: Insights from the design and implementation of a scientific literacy approach in school science. *Internasional Journal of Science Education*, 28 (13), 1499-1521
- Muslich, M. (2010). *Text Book Writing: Dasar-dasar Pemahaman, Penulisan, dan Pemakaian Buku Teks*. Jogjakarta: Ar- Ruzz Media
- Nisa, R.A,. (2016). Analisis Buku Biologi Kelas X berdasarkan muatan literasi sains. Tesis pada Spesialisasi Pendidikan Sains. Tesis pada Sps UPI: tidak diterbitkan
- National Science Education Standards [NSES].(1996). *Inquiry A Guide for Teaching and Learning*.national Academy Press. Wasington, D.C
- National Science Teacher Association [NSTA].(2003). *Standards for Science Teacher Preparation*. Revised edition
- NRC. (1996). *Inquiry and the National Science Education Standards* Washington, DC: National Academy Press
- NRC.(2000). *National Science Education Standards*.Washington, DC: National Academy Press
- NRC. (2011). A framework for K-12 science education: Practices, crosscutting concepts, and core ideas. Washington, DC: National Academy Press

- Osborne, J., Collins, S., Ratcliffe, M., Millar, R & Duschl, R. (2003). What “ideas about science” should be taught in school science? Adelphi study of the expert community. *Journal of Research Teaching*, 40 (7), 692-720
- Ozgelen, S., Yilmaz-Turzun, O., & Hanuscin, D. L. (2012). Exploring the development of preservice science teacher’ view on the nature of science in inquiry-based laboratory instruction. *Researchin Science Education*. 43, (4), 1551-1570
- Pine, J. (2006). “Fifth Graders’ Science Inquiry Abilities: A Comparative Study of Students in Hands-On and Textbook Curricula”. *Journal of Research and Science Teaching*, 43 (5): 467-484
- Pratiwi, D., L., C, W. (2012). Analisis Representasi Salingtemas Buku Ajar Biologi Kelas XI SMA Negeri Sekota Semarang. *Unnes Journal of Biology Education*, (2) 73-78
- Putri, Azza N. (2013). *Analisis Penguasaan Hakikat Sains Guru Biologi SMA dan Penerapannya dalam Pengembangan LKS*. Tesis Magister pada SPs UPI :tidak diterbitkan
- Roth, W. M.,& Roychoudhury, A. (1993). The development of science process skills in authentic contexts. *Journal of Research in Science Teaching*, 30 (2), 127-152
- Rustaman, N. (2003). *Kemampuan Dasar Bekerja Ilmiah dalam Sains*. Makalah Seminar, Bandung: Universitas Pasundan.
- Rustaman, N (2005). *Strategi Belajar Mengajar Biologi*. Malang: Universitas Negeri Malang (UM PRESS)
- Rustaman, N. Y. (2007). Pendidikan Biologi. Dalam Ali, M, Ibrahim, R., Sukmadinata, N.S.,Sudjana, D., Rasjidin, W (Penyunting). *Ilmu dan Aplikasi Pendidikan. Bagian III Pendidikan Disiplin Ilmu*. Bandung: Imperial Bhakti Utama
- Rustaman, N. Y. (2010). Pengembangan pembelajaran sains berbasis kemampuan dasar bekerja ilmiah. *Teori, Paradigma, Prinsip, dan Pendekatan pembelajaran MIPA dalam konteks Indonesia*. Bandung: FPMIPAUPI
- Ryan, A. G & Aikenhead, G. S. (1992). Students’ preconceptions about the epistemology of science. *Science Education*, 76 (6), 559-580
- Ryder, J., Leach, J., & Driver, R. (1999). Undergraduate science students’ images of science. *Journal of Research in Science Teaching*, 36 (2), 201-220
- Sadler, T.D., Chambers, F.W., & Zeidler, D. (2004). Students conceptualizations of the nature of science in response to a socioscientific issue. *International Journal of Science Education*, 26 (4), 387-409

- Sandoval, W. A. (2005). Understanding student' practical epistemologis and their onfluenceon learning through inqyury. *Science Education*, 89(4) 694-656
- Schwartz, R.S., Lederman, N., & Lederman, J (2008). An instrumen to assess views of scientific inquiry: The VOSI questionaire: *In Paper presentes at the internasional conference og the National Association for Research in Science Teaching (NARSI)*. Baltimore, MD
- Schwartz, R.S., Lederman, N., Khishfe, R., Lederman, J.S., Mathews, L., & Liu,S. (2002). Explicit/Reflective Instructional Attention to Nature of Science and Scientific Inquiry: Impact on Student Learning. *Paper Presented at The 2002 Annual International Conference of The Association for The Education of Teachers in Science*.
- Schwartz, R. S., Lederman, N. G. & Crawford, B. A (2004). Developong Views of Nature of Science in an Authentic Context: An Explicit Aproach to Bridging the Gap Between Nature Of WScience and Scientific Inquiry. *Science Teacher Education*, 88 (4), 640-645
- Senler, B. (2015). Middle School Students' View of Science Inquiry: An International Comparative Study. *Science Education International*. 26, (2) 166-179
- Shamsudin, N., Abdulah, N & Yamaat, N. (2013) strategies of teaching science using an inquiry-based science education. *Novice Chemistry Teacher*, (90), 583-592
- Smith, K. A. (2000). Inquiry-bases cooperative learning. Adapted from Smith, Karl A. 2000. Inquiry in large classes. *1999 Sigma XI Conference Proceedings—Reshaping Undergraduate Science and Engineering Education: Tools for BetterLearning*. 53-63. KarlA. Smith. University ofMinnesota/PurdeuUniversityksmith@umn.eduhttp://www.ce.umn.edu/-smith
- Sund, R,B & Trowbridge, L. W. (1973) *teaching Science by Inquiry in the Secondary Scholl*. Columbus Ohio: Charles E. Merrill Publising Company, A Bell & Hooweel Company
- Tarigan, H. G & Tarigan D (2009). Telaah Buku Teks Bahasa Indonesia, Bnadung : Angkasa
- Trilling, B. and Paul Hood. (1999). Learning, technology, and education ferorm in the knowledge age. *Educational Technology*. Mey-Juni,1999
- Waelissa, Y.N. (2012). *Pemanfaatan Potensi Alam yang berkaitan dengan Nilai Kearifan Local sebagai Sumber Belajar dalam Pembelajaran Biologi di SMA X Provinsi Maluku*. Laporan Field Study, Bandung: tidak diterbitkan
- Welch, W, Klopefer, L., Aikenhead,G & Robinson, I. (1981). The role of inquiry in science education; analysis and recommendations. *Science Education*, 65, 33-50

- Wenning, C. J. (2005). Levels of inquiry: Hierarchies of pedagogical practices and inquiry processes. *Journal of Physics Teacher Education Online*, 2 (3) February 2005, pp. 3-11. Available: http://www.phy.ilstu.edu/pte/publications/levels_of_inquiry.pdf. [20 Juni 2017]
- Wildman. (2012). *Are Worksheets Effective an Instructional*. [Online]. Diakses dari earlyactionresearch.wikispace.com [7 Februari 2017]
- Yildirim, Kurt, Ayas. (2011). The Effect Of The Worksheet On Students' Achievements In Chemical Equilibrium. *Journal of Turkish Science Education*. 8 (3), 44-58
- Zar, J. H. (1984). *Biostatistical Analysis*. Second edition. Englewood Cliffs, NJ: Prentice Hall, Inc