

DAFTAR PUSTAKA

- Abidin, Y. (2013). *Desain sistem pembelajaran*. Bandung: PT. Refika Aditama.
- Abd-El-Khalick, F., Waters, M & Le, A. (2008). Representations of nature of science in high school chemistry textbooks over the past four decades. *Journal of Research In Science Teaching*, 45(7), 835–855.
- Adisendjaja, Y.H. (2012). *Analisis buku ajar biologi sma kelas x di kota bandung berdasarkan literasi sains*. Bandung: Pendidikan Biologi
- Akerson, V. L., Abd-El-Khalick, F & Lederman, N. G. (2000). Influence of a reflective explicit activity-based approach on elementary teachers' conceptions of nature of science. *Journal of Research in Science Teaching*, 37(4), hal 295–317
- Anwar, S. (2010). *Pengolahan bahan ajar*. Bandung : Program PPs UPI
- Ayodele & Olagoke, M. (2013). A comparative study of textbook readability and students' comprehension levels in senior secondary school biology. *Journal of Educational and Social Research*, 3 (1), hal 109-114
- Clough, M. P & Olson, J. K. (2012). *Impact of a nature of science and science education course on teachers' nature of science classroom practices*. M.S. Khine (ed.), *Advances in Nature of Science Research*
- Creswell, J. W & Clark V. L. P. (2007). *Designing and conducting mixed methods research*. California: Sage Publication, Inc
- Depdiknas. (2008). *Panduan pengembangan bahan ajar*. Jakarta: Direktorat Pembinaan Sekolah Menengah Atas
- Duit, R. (2007). Science educational research internationally: conception, research method, domain research. *Eurasia journal of Mathematics*. ISSN:1305-8223.
- Duit, R. *et al.* (2012). The model of educational reconstruction – a framework for improving teaching and learning science dalam Jorde, D & Dillon, *Sci. Educ. Res. and Pract. in Europe: Retrospective and Prospective*, 5, 13–37.
- Fraenkel, *et al.* (2012). *How to design and evaluate research in education*. New York: McGraw-Hill
- Gräber, W., Erdmann, T & Schlieker, V. (2001). ParCIS: aiming for scientific literacy through self-regulated learning with the internet. *Science and*

Technology Education: Preparing Future Citizens. Proceedings of the IOSTE Symposium in Southern Europe

- Holbrook, J & Rannikmae, M. (2009). The meaning of scientific literacy. *International Journal of Environmental & Science Education*, 4(3), hal 275-288
- Houghton, J. (2004). *Global warming*. United States of America: Cambridge University Press
- Jin, H., Zhan, L & Anderson, C.W. (2013). Developing a fine-grained learning progression framework for carbon transforming processes. *Routledge. International Journal of Science Education*, 35 (10), hal 1663-1697
- Kementerian Pendidikan dan Kebudayaan. (2013). *Kurikulum 2013 kompetensi dasar sekolah menengah pertama (smp)/madrasah tsanawiyah (mts)*. Jakarta: Kementerian Pendidikan dan Kebudayaan
- Lawshe, C.H. (1975). A quantitative approach to content validity. *Personnel Psychology*. 28, hal 563-575
- Lederman, N. G., Antink, A. & Bartos, S. (2012). Nature of science, scientific inquiry, and socio-scientific issues arising from genetics: a pathway to developing a scientifically literate citizenry. *Sci & Educ* DOI 10.1007/s11191-012-9503-3
- Lederman, N.G., Lederman, J.S., & Antink, A. (2013). Nature of science and scientific inquiry as contexts for the learning of science and achievement of scientific literacy. *International Journal of Education in Mathematics, Science and Technology*, 1(3), hal 138-147
- McComas *et al.* (2002). The role and character of the nature of science dalam McComas, W.F., *The nature of Science in Science Education Rationales and Strategies*, h 3-39. United States of America: Kluwer Academic Press.
- Murcia, K. (2009). Re-thinking the development of scientific literacy through a rope metaphor. *Research in Science Education*, 39 hal 215–229
- National Research Council. (1996). *National science education standards*. Washington, Dc : National Academy Press.
- Nentwig, P & Parchmann, I. (2002). Chemie im Context-From situated learning in relevant contexts to a systematic development of basic chemical concepts. *Makalah Simposium Internasional IPN-UYSEG Oktober 2002*, Kiel Jerman
- Niebert, K., & Gropengiesser, H. (2013). The model of educational reconstruction: A framework for the design of theorybased content specific interventions. The example of climate change. In T. Plomp, & N. Nieveen (Eds.), *Educational design research* , hal. 511-531.

- Obiora & Chinelo, F. (2016). Textbook assessment: matching the reader with the reading text. *International Journal of Arts and Humanities*, 5 (1), hal. 220-226
- OECD.(2007). *PISA 2006 Science competencies For tomorrow's world*. OECD Publishing.
- OECD. (2013). *PISA 2015 draft science framework*. OECD Publishing.
- OECD. (2014). *PISA 2012 Results: what 15-year-olds know and what they can do with what they know*. OECD Publishing.
- Saarelainen, M & Hirvonen. P. E. (2009). Designing a teaching sequence for electrostatics at undergraduate level by using Educational Reconstruction. *Latin-American Journal of Physics Education*, 3 (3).
- Sam, A. *et al.* (2015). The model of educational reconstruction: scientists' and students' conceptual balances to improve teaching of coordination chemistry in higher education. *International Journal of Academic Research and Reflection*, 3 (7), hal 67-77.
- Schwartz, Y., Lederman, N. G., & Crawford. (2004). Developing views of nature of science in an authentic context: an explicit approach to bridging the gap between nature of science and scientific inquiry. *Science Teacher Education*, hal 610-645.
- Setiadi, R. (2014). *Penerapan analisis wacana dalam pengembangan bahan ajar*. Bandung: Jurusan Pendidikan Kimia FPMIPA UPI
- Snyder, S. L & Zike, D. (2005). *The air around you*. United States of America: The McGraw-Hill Companies, Inc.
- Ulusoy, M. (2006). Readability approaches: Implications for Turkey. *International Education Journal*, 7(3), 323-332.
- Umoke, C. C., & Nwafor, C. E. (2015a). Evaluation of some approved computer studies textbooks in use in junior secondary schools in ebonyi state of nigeria. *Advances in Social Sciences Research Journal*, 2 (8) hal, 123-141
- Umoke, C. C., & Nwafor, C. E. (2015b). Examination of the readability level of some approved science textbooks in use in junior secondary schools in ebonyi state of nigeria. *British Journal of Education*, 3 (11), hal.26-31
- Vesterinen, V., Aksela, M & Lavonen, J. (2011). Quantitative analysis of representations of nature of science in nordic upper secondary school textbooks using framework of analysis based on philosophy of chemistry. *Science & Education*, 22, hal 1839–1855

- Quigley, C, Pongsanon, K & Akerson, V.L. (2011). If we teach them, they can learn: young students views of nature of science during an informal science education program. *Journal of Science Teacher Education* , 22, hal. 129–149
- Wahono *et al.* (2014). *Ilmu pengetahuan alam*. Jakarta: Kementerian Pendidikan dan Kebudayaan.
- Wheeler dan Braun. (2013). Climate change impacts on global food security. *Science*, 341, hal. 508-513. DOI: 10.1126/science.1239402
- Wilson, R. F., Pan, W., & Schumsky, D. A. (2012) . Recalculation of the critical values for lawshe’s content validity ratio. *Measurement and Evaluation in Counseling and Development*, 20(10), hal 1–14.