

DAFTAR PUSTAKA

- Adolphus., *et al.* (2012). Improving Scientific Literacy among Secondary School Students through Integration of Information and Communication Technology. *ARPJ Journal of Science and Technology*, 2(5), hlm. 444-448.
- Ainswoth, S. (1999). The Functions of Multiple Representations. *Computer and Education*, 33, hlm. 131-152.
- Akgul, E. M. (2004). Teaching Scientific Literacy Through A Science Technology And Society Course: Prospective Elementary Science Teachers' Case. *The Turkish Online Journal of Educational Technology*, 3(8).
- Akker, V. D. (1999). *Principles and Method of Development Research*. London. Dlm. Van Den Akker, *et al.* (Eds) *Design Approaches and Tools in Educational and Training*. Dordrecht: Kluwer Academic Publisher.
- Ali, M. (1993). *Strategi Penelitian Pendidikan*. Bandung: Angkasa.
- Al-Rsa'i, M. S. (2013). Promoting Scientific Literacy by Using ICT in Science Teaching. *International Education Studies*, 6(9), hlm. 175-186. DOI:10.5539/ies.v6n9p175.
- Anwar, S. (2014). *Pengolahan Bahan Ajar: Bahan Perkuliahan SPs UPI*. Bandung: Tidak Diterbitkan.
- Arifin, Z. (2011). *Evaluasi Pembelajaran: Prinsip, Teknik, Prosedur*. Bandung: Remaja Rosdakarya.
- Asyhari, A., & Hartati, R. (2015). Profil Peningkatan Kemampuan Literasi Sains Siswa melalui Pembelajaran Saintifik. *Jurnal Ilmiah Pendidikan Fisika "Al Biruni"*, 4(2).
- Bao, L. (2006). Theoretical Comparisons of Average Normalized Gain Calculations. *American Association of Physics Teachers*. 74(10), hlm. 917-922.
- Barton, M. L., & Jordan, D. L. (2001). *Teaching Reading in Science A Supplement to Teaching Reading in the Content Areas: If Not Me, Then Who? 2nd Edition*. Colorado: McREL.
- Betts, E. A. (1946). *Foundations of Reading Instruction with Emphasis on Differentiated Guidance*. New York, NY: American Book Company.

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PENGEMBANGAN BAHAN AJAR IPA TERPADU TEMA SISTEM PENGLIHATAN UNTUK MENINGKATKAN LITERASI SAINS SISWA SMP

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Borg, W. R., & Gall, M. D. (1979). *Educational Research: An Introduction Third Edition*. New York: Longman Inc.
- Cervetti, G. N., et al. (2015). Factors That Influence the Difficulty of Science Words. *Journal of Literacy Research*. hlm. 1-33. DOI: 10.1177/1086296X15615363.
- Chiapetta, E.L., Sethna, G.H., & Fillman, D.A. (1993). Do Middle School Life Science Textbooks Provide a Balance of Scientific Literacy Themes?. *Journal of Research in Science Teaching*, 30(7), hlm. 787–797.
- Chingos, M. M., & Whitehurst, G. J. (2012). *Choosing Blindly Instructional Material, Teacher Effectiveness and The Common Core*. Brookings: Brown Center Education Policy.
- Christensen, L. B. (1988). *Experimental methodology* (4th Edition). Boston: Allyn and Bacon Inc.
- Clifford, G. J. (1978). Words for Schools: The Applications in Education of the Vocabulary Researches of Edward L. Thorndike. In P. Suppes (Ed.), *Impact of research on education: Some case studies*, hlm. 107-198. Washington DC: National Academy of Education.
- Coil, D., et al. (2010). Teaching the Process of Science: Faculty Perceptions and an Effective Methodology. *CBE Life Sci Educ* 9, hlm. 524–535.
- Creswell, J. W. (2012). *Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research* (3th Ed). Boston: Pearson.
- Dani, D. (2009). Scientific Literacy and Purposes for Teaching Science : A Case Study of Lebanese Private School Teachers. *International Journal of Environmental & Science Education*. 4(3), hlm. 289–299.
- Depdiknas.(2008). *Panduan Pengembangan Bahan Ajar*. Jakarta: Depdiknas.
- Emory, C. W. (1985). *Business Research Method*. Richard D. Irwin Inc.
- Espinosa, J. M. R. (2005). The Importance of Scientific literacy in Our Society. *Proc. JENAM Distant Worlds*, Liege (Belgium), hlm. 28-31.
- Fraenkel, et al. (2012). *How to Design and Evaluate Research in Education 8th edition*. New York: McGraw-Hill.
- Glynn, S. M., & Muth, K. D. (1994). Reading and Writing to Learn Science : Achieving Scientific Literacy. *Journal of research in science teaching*, 31(9),

Fatma Wati, 2017

PENGEMBANGAN BAHAN AJAR IPA TERPADU TEMA SISTEM PENGLIHATAN UNTUK MENINGKATKAN LITERASI SAINS SISWA SMP

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- hlm. 1057–1073.
- Hake, R. R. (1998). Interactive-Engagement Versus Traditional Methods: A Six-Thousand Student Survey of Mechanics Test Data for Introductory Physics Courses. *American Journal of Physics*. 66(1), hlm. 64-74.
- Hake, R. R. (2002). Relationship of Individual Student Normalized Learning Gains in Mechanics with Gender, High-School Physics, and Pretest Scores on Mathematics and Spatial Visualization. *Physics Education Research Conference*; Boise, Idaho; August 2002.
- Haladyna, T. M. (2004). *Developing and Validating Multiple-Choice Test Items Third edition*. New Jersey: Lawrence Erlbaum Associates, Inc.
- Hand, B. G., & Ulu, M. C. (2009). Sequencing Embedded Multimodal Representations in a Writing to Learn Approach to the Teaching of Electricity. *Journal of Research in Science Teaching*. 46(3), hlm. 225-247.
- Herber, H. (1978). *Teaching Reading in the Content Areas*. (2nd ed.). Englewood Cliffs, NJ: Prentice-Hall.
- Hodder Education GCSE Science Literacy and Scientific Enquiry Skills. (t.t). *Section 1: Literacy Skills in Science*.
- Holbrook, J., & Rannikmae, M. (2009). The Meaning of Scientific Literacy. *International Journal of Environmental & Science Education*, 4(3), hlm. 275-288.
- Hughes, A. (2003). *Testing for Language Teachers*. Cambridge: Cambridge University Press.
- Ilhan, N., Yildirim, A., & Yilmaz, S. S. (2016). The Effect of Context-Based Chemical Equilibrium on Grade 11 Students' Learning, Motivation and Constructivist Learning Environment. *International Journal of Environmental & Science Education*, 11(9), hlm. 3117-3137. DOI: 10.12973/ijese.2016.919a.
- Kemendiknas. (2010). *Juknis Pengembangan Bahan Ajar SMA*. Jakarta : Direktorat Pembinaan SMA.

- Keskin, S. (2006). Comparison of Several Univariate Normality Tests Regarding Type I Error Rate and Power of the Test in Simulation Based Small Samples. *Journal of Applied Science Research*, 2(5), hlm. 296-300.
- Lang, M., & Olson, J. (2000). Integrated Science Teaching as a Challenge for Teachers to Develop New Conceptual Structures. *Research in Science Education*, 30(2), hlm. 213-224. doi: 10.1007/BF02461629.
- Laugksch, R. C. (2000). Scientific Literacy: A Conceptual Overview. *Science Education Journal*, John Wiley & Sons, Inc. Sci. Ed 84, hlm. 71-94.
- Lestari, K. E., & Yudhanegara, M. R. (2015). *Penelitian Pendidikan Matematika*. Bandung: Refika Aditama.
- Liu, X. (2009). Beyond Science Literacy: Science and the Public. *International Journal of Environmental & Science Education*, 4(3), hlm. 301–311.
- Matlin, M. W. (2005). *Cognition*. USA: John Wiley & Sons, Inc.
- Mayuri, N. S. (2013). *Pengaruh Model Pembelajaran Inquiry Lab terhadap Peningkatan Literasi Sains dan Sikap Ilmiah Siswa SMP pada Materi Gerak pada Tumbuhan*. Skripsi [tidak diterbitkan]. Bandung: FMIPA UPI.
- Meinwald, J., & Hildebrand J. G. (eds.). (2010). Science and the Educated American: A Core Component of Liberal Education. Cambridge: American Academy of Arts and Sciences.
- Mendes, M., & Pala, A. (2003). Type I error rate and power of three normality tests. *Pakistan Journal of Information and Technology*, 2(2), hlm. 135-139.
- Merino, C., & Sanmarti, N. (2008). How Young Children Model Chemical Change. *Chem. Educ. Res. Pract.* 9, hlm. 196–207.
- National Research Council. (1996). *National Science Education Standards*. USA: The National Academy Press.
- Nieveen, N. (2006). *Educational Design Research in Educational Design Research*. New York: Routledge.
- Nurhadi (2002). *Pendekatan Kontekstual*. Jakarta: Depdiknas.
- OECD. (2013). *PISA 2015: Draft Science Framework*. [Online]. Tersedia: <http://www.oecd.org/pisa/pisaproducts/Draft%20PISA%202015%20Science%20Framework>. [11 Juni 2016]

Fatma Wati, 2017

PENGEMBANGAN BAHAN AJAR IPA TERPADU TEMA SISTEM PENGLIHATAN UNTUK MENINGKATKAN LITERASI SAINS SISWA SMP

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- OECD. (2016). *PISA 2015: PISA Results in Focus*. Paris: OECD
- Ozdilek Z., & Ozkan, M. (2009) The Effect of Applying Elements of Instructional Design on Teaching Material for the Subject of Classification of Matter. *The Turkish Online Journal of Educational Technology*. ISSN: 1303-6521 volume 8 issue 1 article 9.
- Peraturan Menteri Pendidikan dan Kebudayaan. (2016). Salinan Lampiran Peraturan Menteri Pendidikan dan Kebudayaan Nomor 20 Tahun 2016 tentang Standar Kompetensi Lulusan Pendidikan Dasar dan Menengah.
- Permatasari, Obimita Ika., Rusilowati, A., dan Masturi (2014). Developing Science Learning Materials for Junior High School Based on Way of Investigating to Improve Scientific Literacy. *ICMSE 2014*.
- Phopham, W. J., & Sirotnik, K. J. (1973). *Educational Statistic: Use and Interpretation*. New York: Harper & Row Publisher.
- Poedjiadi, A. (2005). *Sains Teknologi Masyarakat*. Bandung: Remaja Rosdakarya.
- Rankin, E.F., & Culhane, J.W. (1969). Comparable Cloze and Multiple-Choice Comprehension Test Scores. *Journal of Reading*, 3(3), hlm. 93-198.
- Razali, N. M., & Wah, Y. B. (2011). Power comparisons of shapiro-wilk, kolmogorov-smirnov, lilliefors and anderson-darling tests. *Journal of Statistical Modeling and Analytics*, 2(1), hlm. 21-33.
- Rizqiana, N. (2015). Pengaruh Pembelajaran Fisika Model Problem Based Learning (PBL) terhadap Kemampuan Literasi Sains Siswa Ditinjau dari Kemampuan Awal. *Prosiding Pertemuan Ilmiah XXIX HFI Jateng & DIY*, ISSN : 0853-0823
- Rohayati, T. (2013). *Pengaruh Pembelajaran Interactive Demonstration terhadap Peningkatan Kemampuan Literasi Sains dan Sikap Ilmiah Siswa SMP pada Materi Transportasi pada Tumbuhan*. Skripsi [tidak diterbitkan]. Bandung: FMIPA UPI.
- Rusilowati, A. (2014). Analisis Buku Ajar Ipa yang Digunakan di Semarang Berdasarkan Muatan Literasi Sains. *Proceeding Seminar Nasional Konservasi dan Kualitas Pendidikan*. ISBN: 978-602-14696-1-3 [Online]

Diperoleh dari http://lib.unnes.ac.id/23402/1/Ani_Rusilowati.pdf pada [7 Februari 2017]

- Sardiman. (2011). *Interaksi dan Motivasi Belajar Mengajar*. Jakarta: Rajawali Press.
- Shwartz, Y., Ben-zvi, R., & Hofstein, A. (2006). The Use of Scientific Literacy Taxonomy For Assessing The Development of Chemical Literacy Among High-School Students. *Chem. Educ. Res. Pract*, 7(4), hlm. 203–225.
- Sinaga, P. (2014). Pengembangan Program Perkuliahan Fisika Sekolah III untuk Meningkatkan Kompetensi Menulis Materi Ajar Calon Guru Menggunakan Multi Modus Representasi. *Disertasi tidak diterbitkan*. Universitas Pendidikan Indonesia.
- Sinaga, P. (2016). Model Proses Menulis Materi Ajar (*Instructional Materials*) Sains. Departemen Pendidikan Fisika FPMIPA UPI.
- Stephen, S., & Abasi, U. (2015). Problem of Improvising Instructional Materials for the Teaching and Learning of Physics in Akwa Ibom State Secondary Schools, Nigeria. *British Journal of Education*. 3(3), hlm. 27-35.
- Symeonidis, V., & Schwarz, J. F. (2016). Phenomenon-Based Teaching and Learning through the Pedagogical Lenses of Phenomenology: The Recent Curriculum Reform in Finland. *Forum Oświatowe*, 28(2), hlm. 31–47.
- Sugiyono. (2014). *Metode Penelitian Pendidikan (Pendekatan Kuantitatif, Kualitatif, dan R&D)*. Bandung: Alfabeta.
- Suherman, E., dkk. (2003). *Strategi pembelajaran matematika kontemporer*. Bandung: JICA Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam, Universitas Pendidikan Indonesia.
- Sumarmo, U., & Hendriana, H. (2014). *Penilaian Pembelajaran Matematika*. Bandung: Refika Aditama.
- Taniredja, T., & Mustafida, H. (2012). *Penelitian kuantitatif (sebuah pengantar)*. Bandung: Alfabeta.
- Temitayo. (2013). *Fostering Scientific Literacy in the Classroom. The European Conference on Education 2013*.

- Tierney, R. J., & Cunningham, J. W. (1980). *Center for the Study of Reading. Research on Teaching Reading Comprehension*. Cambridge: Hbolt Beranek and Newman Inc.
- Toharudin, U., dkk. (2011). *Membangun Literasi Sains Peserta Didik*. Bandung: Humaniora.
- Trianto. (2010). *Model Pembelajaran Terpadu*. Jakarta: Bumi Aksara.
- Vacca, R. T., & Vacca, J. L. (2005). *Content Area Reading: Literacy and learning Across the Curriculum* (8th ed.). Boston: Allyn & Bacon.
- Wahyu, E., Fathurohman, A., & Sardianto. (2016). Analisis Buku Siswa Mata Pelajaran IPA Kelas VIII SMP/MTs Berdasarkan Kategori Literasi Sains. *Jurnal Inovasi dan Pembelajaran Fisika*. ISSN: 2355–7109. [Online] Tersedia: ejournal.unsri.ac.id/index.php/jipf/article/download/3837/1987
- Wati, F., Sinaga, P., dan Priyandoko, D. (2017). Science Literacy: How Do High School Students Solve PISA Test Items?. *Disampaikan pada International Conference on Mathematics and Science Education pada 24 Mei 2017 di Bandung*.
- Wilkinson, J. 1999. A Quantitive Analysis of Physics Textbooks for Scientific Literacy Themes. *Journal of Research in Science Education*, 29(3), hlm. 385-399.
- Y u s u f , S . , d k k . (1 9 9 3) . *Dasar-dasar Pembinaan Kemampuan Proses Belajar Mengajar*. B a n d u n g : A n d i r a .