

DAFTAR PUSTAKA

- Ainsworth, S. (1999). *The function of multiple representation*. Computer and Education, 33, 131-152
- Ainsworth, S. dkk. (2004). *Multiple forms of dynamic. Representation learning and instruction*. Learning and Instruction. Vol.14 (3). pp. 241-255
- Ainsworth, S. (2008). *The Educational Value of Multiple-Representations when Learning Complex Scientific Concepts*. In (Gilbert, J.K., Reiner, M., Nakhleh, M. Eds) Visualisation: Theory and practice in science education. Springer. U. K
- Anderson, L. dan Krathwol, D. (2010). *Kerangka Landasan untuk Pembelajaran, Pengajaran, dan Asesmen Revisi Taksonomi Pendidikan Bloom*. Yogyakarta: Pustaka Pelajar
- Arifiyanti, L. M. (2015) *Pengembangan Buku Pedoman Pembelajaran Fisika Berbasis Metakognisi Sesuai Level Inkuiiri untuk Meningkatkan Kemampuan Memecahkan Masalah dan Berpikir Kritis Siswa SMA*. S2 thesis, UNY
- Arikunto, S. (2010). *Prosedur penelitian: Suatu Pendekatan Praktik*. Jakarta: Rineka Cipta.
- Bétrancourt, M. dan Tversky, B. (2000). *Effect of computer animation on users' performance*. Le Travail Humain, 63, 311-330.
- Brown, M. H. (1998). *Perspectives on algorithm animation*. Proceedings of the ACM SIGCHI '88 Conference on Human Factors in Computing Systems, (pp. 33-38)
- Chang, K. dkk. (2008). *Effects of learning support in simulation-based physics learning*. ScienceDirect Computer & Education 51. 1486-1498.
- Chen, Y. dkk. (2012). *Exploratory Research: The Effect of Electronic Books on College Students*. MBA Students Scholarship. 12-1-2012.
- Coe, R. (2000). *What is an Effect Size? A Guide for Use*. Draft version.
- Cohen, J. (1969). *Statistical Power Analysis for the Behavioral Sciences*. NY: Academic Press in Coe, Robert (2000). *What is an Effect Size? A Guide for User*. Draft version.

- Cohen, E. G. (1994). Restructuring the classroom: Conditions for productive small groups. *Review of Educational Research*, 64(1), hlm. 1–35
- Coladarci, T. dkk. (2011). *Foundamental of Statistical Reasoning in Education*. USA: Fourth Edition, Jay o'callaghan
- Costa, A. L. dan Presseisen, B. Z. (1985). *Glossary of Thinking Skill*, in A.L. Costa (Ed). Developing Minds: A Resource Book for Teaching Thinking, Alexandria: ASCD.
- Depdiknas. (2004). *Pedoman Memilih dan Menyusun Bahan Ajar*. Jakarta: Departemen Pendidikan Nasional.
- Depdiknas. (2008). *Panduan Pengembangan Bahan Ajar*. Jakarta: Depdikbud
- Eldy, F. E. dan Fauziah, S. (2013). *The Capability of Intregrated Problem-Based Learning in Improving Students (Level of Creative-Critical Thinking)*. International Journal of e-Education, e-Business, e-Management and e-Learning, Vol. 3, No. 4, August 2013
- El-Hussein, M. O. M dan Cronje, J. C. (2010). *Defining Mobile Learning in the Higer Education Landscape*. South Africa: Educational Technology and Society, 13 (3), 12-21.
- Esquembre, F. (2002). *Computer in Physics Education*. Computer Physics Comunications. 147. 13-18
- Fadhillah, S. (2008). *Menumbuh Kembangkan Kemampuan Pemecahan Masalah dan Representasi Matematika Melalui Pembelajaran Open Ended* (Skripsi). STKIP PGRI Pontianak
- Foti, K. M. dan Mendez, J. (2014). *Mobile Learning: How Students Use Mobile Devices to Support Learning*. Elizabeth: Journal of Literacy and Technology. Vol: 15, No: 3, 2014
- Gagne, R. M. dkk. (2005). *Principles of Instructional Design* (5th ed). Belmont, Canada: Thomson Wadsworth.
- Gonzalez, A. M. dkk. (2014). *Mobile Phones for Teaching Physics: Using Applications and Sensors*. ResearchGate
- Hake, R. (1998). *Interactive-engagement versus traditional methods: A six-thousand-student survey of mechanics test data for introductory physics courses*. American journal of physics. Vol. 66 No. 64, 1998.

- Halder, I. dkk. (2015). *Undergraduate Students Use of Mobile Phones: Exploring Use of Advanced Technological Aids for Educational Purpose*. Journal of Media and Communication. Vol. 7 No. 4. pp. 81-87
- Hamalik, O. (2005). *Perencanaan Pengajaran Berdasarkan Pendekatan Sistem*. Jakarta: PT. Bumi Aksara
- Hanafi, F. H. dan Samsudin, K. (2012). *Mobile Learning Environment System (MLES): The Case of Android-Based Learning Application on Undergraduates' Learning*. International Journal of Advanced Computer Science and Applications. Vol. 3, No 3, 2012
- Joseph, S. F. dan Gayle, N. (1998). *Integrating multiple teaching method into a general chemistry classroom*. Journal of chemical Education, Vol. 75 No. 2, 210-213
- Kantar, M. dan Dogan, M. (2015). *Development of Mobile Learning Material for 9th Grade Physics Course to Use in FATIH Project: Force and Motion Unit*. Participatory Educational Research (PER). Special Issue 2015-II, pp., 99-105. ISSN: 2148-6123.
- Kohl, P. B. dkk. (2007). “Strongly and weakly directed approaches to teaching multiple representations use in physics”. Physics Education Research 3, 010108
- Kress, G. dkk. (2001). *Multimodal Teaching and Learning*: The Rhe-torics of the Science Classroom. London, UK: Continuum
- Lestari, I. (2013). *Pengembangan Bahan Ajar Berbasis Kompetensi: Sesuai dengan Kurikulum Tingkat Satuan Pendidikan*. Padang: Akademia.
- Liliasari. (1997). *Pengembangan Model Pembelajaran Materi Subjek untuk Meningkatkan Keterampilan Berpikir Konseptual Tingkat Tinggi Mahasiswa Calon Guru IPA (Suatu Studi Pengembangan Berpikir Kritis)*. Laporan Hibah Bersaing Dikti: tidak diterbitkan.
- Mayer, R. E. (2003). *The Promise of Multimodal Learning: Using the Same Instructional Design Methods Across Different Media*. Learning and Instruction, 13, 125–139
- Mintowati. (2003). *Panduan Penulisan Buku Ajar*. Depdikbud: Jakarta
- Mokmin, N. A. dkk. (2014). *Development of Multimedia Learning Application for Mastery Learning Style: A Graduated Difficulty Strategy*. World Academy of Science, Engineering and Technology. Vol: 8, No: 12, 2014

- Molenda, M. (2003). *In search of the elusive ADDIE model.* Pervormance improvement, Submitted for publication in A. Kovalchick & K. Dawson, Ed's, Educational Technologi: An Encyclopedia. Copyright by ABC- Clio, Santa Barbara, CA. Vol. 42 No. 5, 34-36.
- Mulyatiningsih, E. (2012). *Metode Penelitian Terapan Bidang Pendidikan.* Bandung: Alfabeta.
- Novak, J. D. dan Gowin, D. B. (1984). *Learning How to Learn.* New York: Cambridge University Press
- Olejnik, S. dkk. (2000). *Measeure of Effect Size for Comparative Studies Application, Interpretations, and Limitation.* Elsevier: Contemporary Educational Psychology. Vol. 25 Isuue. 3. 241-286
- Opara, J. dan Oguzor, N. S. (2011). *Instructional Technologies and School Curriculum in Nigeria: Innovations and Challenges.* Perspectives of Innovations, Economics & Business. Volume 7, Issue 1, 2011. ISSN 1804-0519.
- Oprea, M. dan Miron, C. (2014). *Mobile Phones in the Modern Teaching of Physics.* Romanian Report in Physics, Vol. 66 No. 4, P. 1236 – 1252.
- Permendiknas No 16 tahun 2007 tentang standar kualifikasi akademik dan kompetensi guru
- Prain. V. dkk. (2009). *Multiple representation in learning about evaporation.* International Journal of Science Education, 31(6), hlm. 787-808
- Prastowo, A. (2013). *Pengembangan Bahan Ajar Tematik – Panduan Lengkap Aplikatif.* Yogyakarta: DIVA Press (Angota IKAPI).
- UNESCO. (2012). *Mobile Learning for Teachers “Global Themes”.* France: United National Educational, Scientifi and Cultural Oranization
- Rabiu, H. dkk. (2016). *Impact of Mobile Phone Usage on Academic Performance among Secondary School Students in Taraba State, Nigeria.* European Scientific Journal. Vol. 12, No. 1 ISSN: 1857 – 7881.
- Rieber, L. P. dkk. (2004). *Discovery Learning, Representation, and Explanation With in a Computer-Based Simulation: Finding The Right Mix.* Learning and Instruction. 14. (2004). 307-323.
- Rockinson, A. J. dkk. (2013). *Electronic Versus Traditional Print Textbooks: A Comparison Study on the Influence of University Students’ Learning.* Computer and Education 63 (2013) 259-266.

- Rohmansyah, A. Y. (2012). *Pengembangan Aplikasi Pembelajaran Menulis Huruf Arab Berbasis Android*. Sekolah Tinggi Ilmu Komunikasi (STIKOM) Surabaya.
- Rosengrant, D., Etkina, E., dan Van, H. A. (2006). *an Overview of Recent Research on Multiple Representations*. Physics Education Research Conference 2006, 1.
- Rosengrant, D., Etkina, E., dan Van, H. A. (2006). *National Association for Research in Science Teaching*. Proceedings, San Francisco, CA (2006).
- Rosengrant, D., Etkina, E., dan Van, H. A. (2007). *an Overview of Recent Research on Multiple Representations*. New Jersey: The State University of New Jersey
- Schnotz, W. dan Lowe, R. (2003). *External and Internal Representations in Multimedia Learning*. Learning and Instruction, vol 13, pp 117-123.
- Sharma, R. M. (2014). *Teaching integrated science through the use of interactive worksheets*. Caribbean Curriculum, Vol 22, pp 85-103.
- Simon, N. (2015). *Improving Higher-Order Learning and Critical Thinking Skills Using Virtual and Simulated Science Laboratory Experiments*. New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering. 312, 187-192.
- Sinaga, P., Suhandi, A., dan Liliyansari. (2014). *Improving the ability of writing teaching materials and self regulation of pre service physics teacher through representational approach*. International journal of sciences: Basic and Applied Research (IJSBAR) Vol. 15 No. 1. Pp 80-94
- Sugiyono. (2014). *Metode Penelitian Kuantitatif, Kualitatif, dan Kombinasi (Mixed Methods)*. Bandung: Alfabeta
- Suhardjono. (2001). *Buku Ajar Ilmu Penyakit Dalam*. Jilid II. Edisi ketiga. FK UI Jakarta
- Thomas, T. (2011). *Developing First Year Students' Critical Thinking Skills*. Asian Social Science Vol. 7, No. 4.
- Quinn, C. (2000). *M-Learning, Mobile, Wireless, In-Your-Pocket Learning*. Linezine. Fall 2000.

- Wahyuni, S. (2015). *Pengembangan Bahan Ajar IPA untuk Menigkatkan Keterampilan berpikir kritis Siswa SMP*. Jurnal Materi dan Pembelajaran Fisika (JMPF). Vol. 5 No. 2 2015. ISSN: 2089-6158.
- Wallace, D., Elise., Jefferon. N. R. (2015). *Developing Critical Thinking Skills: Assessing the Effectiveness of Workbook Exercises*. Journal of College Teaching & Learning-Second Quarter. Vol.12-2
- Widodo, C. dan Jasmadi. (2008). *Buku Panduan Menyusun Bahan Ajar*. Jakarta: PT Elex Media Komputindo.
- Widyanirmala. dkk. (2013). *Pengembangan Aplikasi Android Berupa Workbook Fisika sebagai Pendukung Mobile Learning untuk Siswa SMA*. Jakarta: Universitas Negeri Jakarta.
- Zacharia, Z. dan Anderson, O. R. (2003). *The Effects of an Interactive Computer-Based Simulation Prior to Performing a Laboratory Inquiry-Based Experiment on Students' Conceptual Understanding of Physics*. American Journal of Physics. 71, 618 (2003).
- Zacharia, Z. C. (2007). *Comparing and Combining Real and Virtual Experimentation: an Effort to Enhance Students' Conceptual Understanding of Electric Circuits*. Journl of Computer Assisted Learning. Vol. 23 Issue 2. Pp.120-132