

DAFTAR PUSTAKA

- Arikunto, S. 1997. *Penilaian Program Pendidikan*. Edisi III. Bina Aksara. Jakarta.
- Arsyad, A. 2005. *Media Pembelajaran (LKS)*. Raja grafindo Persada. Jakarta.
- Borg, W.R. and M. D. Gall. 2003. *Educational Research*. Allyn and Bacon. United States of America.
- Cheng, M. & Gilbert, J.K. 2009. Towards a better utilization of diagrams in research into the use of representative levels in chemical education. in: J.K. Gilbert & D. Treagust (Eds.). *Multiple Representations in Chemical Education: Models and Modeling in Science Education*. Dordrecht: Springer.pp. 55-73.
- Chiu, M.H & Wu, H.K. 2009. The roles of multimedia in the teaching and learning of the triplet relationship in chemistry. In: J.K. Gilbert & D. Treagust (Eds.). *Multiple Representations in Chemical Education: Models and Modeling in Science Education*. Dordrecht: Springer. pp. 251-283
- Chittleborough, G.D. 2004. *The Role of Teaching Models and Chemical Representations in Developing Mental Models of Chemical Phenomena*. Thesis. Science and Mathematics Education Centre.
- Davidowitz B. & Chittleborough, G. D. 2009. Linking the macroscopic and sub-microscopic levels : Diagram. In: J. Gilbert & D. Treagust (Eds.). *Multiple Representation in Chemical Education: Models and Modeling in Science Education*. Dordrecht: Springer. 169-191.
- Djamarah, dan Aswan Zain. 2000. *Strategi Belajar Mengajar*. Jakarta. Rineka Cipta.
- Farida, I. 2012. Interkoneksi Multipel Level Representasi mahasiswa Pada Kesetimbangan dalam Larutan Melalui Pembelajaran Berbasis Web. *Disertasi*. UPI. Bandung.
- Gilbert, J.K. & D. Treagust 2008. *Multiple Representations in Chemical Education: Models and Modeling in Science Education*. Dordrecht: Springer. pp. 251-283

- Gilbert, J.K. & Treagust, D.F. 2009. Introduction: Macro, sub-micro and symbolic representations and the relationship between them: Key models in chemical education. In: J. K. Gilbert & D. Treagust (Eds.). *Multiple Representations in Chemical Education: Models and Modeling in Science Education*. Dordrecht: Springer.1-8
- Gustina, G. 2012. *Pengembangan LKS Berbasis Inkuiri dengan Menggunakan Material Lokal Pada Materi Hidrolisis Garam*. Universitas Pendidikan Indonesia, repository.upi.edu
- Herawati FR, Mulyani S, & Redjeki T. 2012. Pembelajaran Kimia Berbasis *Multiple Representasi* Ditinjau dari Kemampuan Awal terhadap Prestasi Belajar Laju Reaksi Siswa SMA Negeri 1 Karanganyar Tahun 2011/2012. *Jurnal Pendidikan Kimia (JPK)*, Vol 2 No. 2 Tahun 2013 Universitas sebelas Maret.
- Herron, J Dudley. 1977. *Problem associated with concept analysis*. *JS E*, 61(2), 185-199.
- Hughes, J. M., Mitchell, P. A., & Ramson, W. S. 1995. *Australian Concise Oxford Dictionary*. Melbourne: Oxford University Press.
- Johnstone, A. H. 1982. *Macro- and Micro-Chemistry*, *School Science Review*., 227, No. 64. p. 377-379.
- Kozma, R., & Joel Russell. 2005. Modeling students becoming chemists: developing representational competence. In J. Gilbert (Ed.), *Visualization in Science Education*. Dordrecht: Springer. pp. 121-145
- Liliasari. 2007. Scientific Concepts and Generic Science Skills Relationship In The 21st Century Science Education. *Seminar Proceeding of The First International Seminar of Science Education*. Bandung..
- Maarif, J. 2012. *Pengembangan LKS Berbasis Inkuiri Pada Pokok Bahasan Larutan Elektrolit dan Non Elektrolit*. Universitas Pendidikan Indonesia, repository.upi.edu
- Marzuki. 1997. *Metodologi Riset*. Fakultas Ekonomi UII. Yogyakarta.
- Mammino L. 2008. Teaching chemistry with and without external representations in professional environments with limited resources. In : J.K Gilbert, Reiner & Nakhleh (Eds.). *Visualization : Theory and Practice in Science Education*. Dordrecht: Springer. pp. 155–185.
- Paiget, J. 1970. *The Science of Education and the Psychology of the Child*. NY: Grossman.

- Rosengrant, D., Van Heuleven, A., & Etkina, E. 2006. Students' use of multiple representations in problem solving. In P. Heron, L. McCullough & J. Marx, *Physics Education Research Conference (AIP Conference Proceedings)* Melville. New York : American Institute of Physics. pp. 49-52.
- Sudjana. 2005. *Metode Statistika*. Bandung. Penerbit Tarsito.
- Sugiyono. 2008. *Metode Penelitian Kuantitatif Kualitatif dan R & D*. Alfabeta. Bandung.
- Suparno, P. 1997. *Filsafat Konstruktivisme dalam Pendidikan*. Kanisius. Jakarta
- Supiati A, Wisanti & Budijastuti W. 2013. Pengembangan Lembar Kerja Siswa (LKS) Berbasis Konstruktivis untuk Melatih Keterampilan Proses Sains. *Jurnal Berkala Ilmiah Pendidikan Biologi*, Vol 2 No 2 Mei 2013.
- Surmilasari, N. 2012. *Pengembangan LKS Matematika Berbasis Konstruktivisme untuk Pembelajaran Materi Perkalian Dua Matriks di Kelas XII SMA*. Makalah dipresentasikan dalam Seminar Nasional Matematika pada 10 November 2012 di Jurusan Pendidikan Matematika FMIPA-UNY.
- Suyanti, W.D. 2010. *Strategi Pembelajaran Kimia*. Graha Ilmu. Yogyakarta.
- Suyanto, S. Paidi & Wilujeng, I. 2011. *Pembekalan guru daerah terluar, dan tertinggal*. UNY. Yogyakarta
- Taber, K. S. 2003. Learning at the symbolic level. In: Gilbert, J.K & D. Treagust (Eds.). *Multiple Representation in Chemical Education: Models & Modeling in Science Education* . Dordrecht: Springer. pp. 75-105
- Tim Pengembang Ilmu Pendidikan FIP-UPI. 2007. *Ilmu dan Aplikasi Pendidikan Bagian III : Pendidikan Disiplin Ilmu*. Penerbit Intima. Bandung.
- Treagust, David F., Chittleborough & Mamiala. 2006. The role of submicroscopic and symbolic representations in chemical explanations. *International Journal of Science Education*, 25, (11): 1353–1368
- Trianto. 2007. *Mendesain Model Pembelajaran Inovatif-Progresif: Konsep, Landasan, dan Implementasinya pada Kurikulum Tingkat Satuan Pendidikan (KTSP)*. Kencana Prenada Media Group. Bandung.

- Waldrip, B., Prain, V. & Carolan, J. 2006. Learning junior secondary science through multi-modal representation. *E-Journal of Science Education*, 11, (1), 87-107.
- Wu, H-K. & Shah, P. 2004. Exploring Visuospatial Thinking in Chemistry Learning. *Science Education*, 88, 465-92
- Yanto R, Enawaty E & Erlina. 2013. Pengembangan Lembar Kerja Siswa (LKS) dengan Pendekatan Makroskopis-Mikroskopis-Symbolik Pada Materi Ikatan Kimia. *Jurnal Pendidikan Kimia (JPK)*, FKIP Universitas Tanjungpura, Pontianak.