DAFTAR PUSTAKA

Ariani, N., dan Haryanto, D., (2010), *Pembelajaran Multimedia di Sekolah*, Prestasi Pustaka, Jakarta

Abdullah, S., dan Shariff, A., (2008), The Effect of Inquiry-Based Computer Simulation With Cooperative Learning on Scientific Thinking and Conceptual Understanding of Gas Laws, *Eurasia Journal Of Mathematics, Science dan Technology Education*, 4(4), 387-398

Abdurrahman, M., (2003), *Pendidikan bagi Anak Berkesulitan Belajar*, Cetakan kedua, PT. Rineka Cipta, Jakarta

Altun dkk., (2009), Developing an interactive virtual chemistry laboratory enriched with constructivist learning activities for secondary schools, World Conference on Educational Sciences 2009, *Procedia Social and Behavioral Sciences* (1): 1895–1898

Amir, M. Taufiq, (2010), *Inovasi Pendidikan Melalui Problem Based Learning*, Cetakan kedua, Kencana, Jakarta

Anneahira, Motivasi belajar, http://www.anneahira.com/motivasi/index.htm, (akses tanggal 11 Mei 2010)

Asmani, M., J., (2009), *7 Kompetensi Guru Menyenangkan dan Profesional*, Power Books (IHDINA), Jogjakarta

Astuti, I, (2010), *Pengaruh penggunaan macromediaflash dalam pembelajaran kimia terhadap motivasi dan hasil belajar kimia siswa di SMA pada Pokok bahasan Asam Basa*, Tesis, Program Pascasarjana Unimed, Medan

Arsyad, A., (2007), *Media Pembelajaran*, PT. Raja Grafindo Persada, Jakarta.

Baroroh A, (2008), *Trik-Trik Analisis Statistik dengan SPSS 15*, Elex Media Komputindo, Jakarta

Basarab, J. David and Root, K. Darrell, (1992), The Training Evaluation Process, http://books.google.co.id/, akses tanggal 18 Oktober 2010-12-26

Budiningsih, A., (2005), *Belajar dan Pembelajaran*, PT Rineka Cipta, Jakarta

Bungin, Burhan, Prof., (2010), *Metodologi Penelitian Kuantitatip*, Cetakan kelima, Kencana, Jakarta

Butar-Butar, R., (2007), *Pengaruh Penggunaan Program Animasi Komputer Terhadap Motivasi dan Hasil Belajar Kimia Siswa SMA Negeri di Kota Sibolga*, Tesis, Program Pascasarjana Unimed, Medan.

Chang, CY dan Wang, HC., (2009), Issues of inquiry learning in digital learning environments, *British Journal of Educational Technology*, **40** (1): 169–173

Delpech, R, (2002), Why are School Students Bored With Science?, *Journal of Biological Education*, 36 : 156-157.

Djamarah, S., B., dan Zain, A., (2002), *Strategi Belajar Mengajar*, PT Rineka Cipta, Jakarta

Domingues, L., dkk, (2010), Virtual laboratories in (bio)chemical engineering education, *education for chemical engineers* (5): e22–e27

Elliott, A., Alty, J., Al-Sharrah, A. dan Beacham, N. (2002). Media combinations and learning styles: A dual coding approach. In P. Barker dan S. Rebelsky (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2002* : 111-116

Ensiklopedi Nasional Indonesia, (1991), PT Cipta Adi Pustaka, Jakarta

Falvo, D. (2008). Animations and simulations for teaching and learning molecular chemistry., *International Journal of Technology in Teaching and Learning*, **4** (1): 68–77.

Fathurrohman., P., dan Sutikno, S., M., (2007), *Strategi Belajar Mengajar*, PT Refika Aditama, Jakarta.

Heinich, R., Molenda, M., Smaldino, S., and Russell, J., (2005), *Instructional Technology and Media For Learning*, 8th Edition, Pearson, New Jersey.

Hidi, S., and Harackiewicz, M., J., (2000), Motivating the Academically Unmotivated: A Critical ssue for the 21st Century, *Review of Educational Research Summer*, **70** (2): 151-179.

Huang Camillan, (2005), Designing high-quality interactive multimedia learning modules, *Computerized Medical Imaging and Graphics* 29 : 223–233

Kadir, A., dan Triwahyuni, Ch., T., (2003), *Pengenalan Teknologi Komputer Informasi*, Penerbit Andi, Yogyakarta.

Kozma, R., dan Russell, J. (2005). Students becoming chemists: Developing representational competence. In J. Gilbert (Ed.), Dordrecht: Springer , *Visualization in science education*. 7: 121-145

Margono, S., (2003), *Metodologi Penelitian Pendidikan*, Cetakan Kedua, PT Rineka Cipta, Jakarta

Martono, Nanang, (2010), *Metode Penelitian Kuantitatif*, PT Rajagrafindo Persada, Jakarta

Mayer, R. E., (2001). *Multimedia learning*, United Kingdom: Cambridge, University Press., Cambridge.

Mulyasa, H., E., (2008), *Implementasi Kurikulum Tingkat satuan Pendidikan, Kemandirian Guru dan Kepala Sekolah*, Bumi Aksara, Jakarta

Nasution, S., (2004), *Deduktif Asas-Asas Mengajar*, Bumi Aksara, Jakarta

Neo Mai and Neo Ken T. K., (2001), Innova tive teaching: Using multimedia in a problem-based learning environment, *Educational Technology dan Society* 4 (4): 19-31.

Paivio, (2006), Dual Coding Theory and Education, Draft chapter for the conference on "Pathways to Literacy Achievement for High Poverty Children," The University of Michigan School of Education, September 29 - October 1, 2006, http://www.readytolearnresearch.org/pathwaysconference/resentations/paivio.pdf., akses tanggal 6 Oktober 2010.

Rasteiro, M., dkk, (2009), Labvirtual - A virtual platform to teach chemical processes, *education for chemical engineers* (4): e9–e19.

Sanjaya, W., (2007), *Kurikulum dan Pembelajaran*, Kencana Prenada Media Group, Jakarta.

Sardiman, (2004), *Strategi Belajar Mengajar*, Raja Grafindo Persada, Jakarta.

Shank., P., (2005), The Value of Multimedia in Learning, Adobe's Media Center, http://www.adobe.com/designcenter/thinktank/valuemedia., (akses tanggal 11 Oktober 2010)

Simarmata, J., (2005), *Pengenalan Teknologi Komputer dan Informasi*, Penerbit Andi Yogyakarta

Sugiyono, (2008), *Metode Penelitian Pendidikan*, Alfabeta, Bandung

Surapranata, S. Dr., (2005), *Interpretasi Hasil Tes*, Cetakan kedua, PT Remaja Rosdakarya, Bandung

Sutikno S. M., (2007), Peran Guru dalam Membangkitkan Motivasi Belajar Siswa, http://www.bruderfic.or.id/h-129/peran-guru-dalam-

membangkitkan-motivasi-belajar-siswa.html, 15.04.2007, 12:47:16 94116x, akses tanggal 10 Mei 2010.

Suyanti, D., R., (2008), *Strategi Pembelajaran Kimia*, Program Pascasarjana Unimed, Medan

Syah, M., (2003), *Psikologi Belajar*, Raja Grafindo Persada, Jakarta

Tirtarahardja, U., dan La Sulo, S., L., (2005), *Pengantar pendidikan (Edisi Revisi)*, PT Rineka Cipta, Jakarta

Ulpah M., (2009), Penggunaan Komputer Sebagai Media Pembelajaran di Perguruan Tinggi, http://insaniaku.files.wordpress.com/2009/02/4-penggunaan-komputer-maria-ulpah.pdf, akses tanggal 10 Mei 2010.

Uno, B.H., (2009), *Teori Motivasi dan Pengukuran*, Cetakan kelima, Bumi Aksara, Jakarta.

Winkel, W.S., (2007). *Psikologi Pembelajaran*, Cetakan ke IX, Media Abadi, Jakarta

Zhang, D., (2005), Interactive Multimedia-Based E-Learning: A Study of Effectiveness, *The American Journal Of Distance Education*, **19** (3): 149-162