

## DAFTAR PUSTAKA

- Akhyani, A. (2008). *Model Pembelajaran Kesetimbangan Kimia Berbasis Inkuiri Laboratorium untuk Meningkatkan Penguasaan Konsep dan Keterampilan Berpikir Kritis Siswa SMA*. Tesis SPs UPI Bandung: tidak diterbitkan.
- Arikunto, S. (2013). *Dasar-dasar Evaluasi Pendidikan* (edisi kedua). Jakarta: Bumi Aksara
- Arikunto, S. (2006). *Evaluasi Pembelajaran*. Jakarta: PT. Rineka Cipta.
- Arsyad, A. (2010). *Media Pembelajaran*. Jakarta: PT. Raja Grafindo Persada.
- Astuti, H.C. (2008). *Pembelajaran Praktikum Mandiri Berbasis Multimedia Komputer Untuk Meningkatkan Keterampilan Generik Sains dan Berpikir Kritis Siswa Pada Konsep Tekanan Osmotik*. Tesis SPs UPI Bandung: tidak diterbitkan
- Azevedo, R. (2005). Computer Environments as Metacognitive Tools for Enhancing Learning. *Educational Psychologis*, 40 (4), 193-197
- Bahriah, E.S. (2012). *Pengembangan Multimedia Interaktif Kesetimbangan Kimia Untuk Meningkatkan Literasi Sains Siswa*. Tesis UPI Bandung: Tidak diterbitkan.
- Blank, L. (2000). A metacognitive learning cycle: A better warranty for student understanding? *Science Education*, 84, 486-506.
- Brady, J. E. (1999). *Kimia Universitas: Asas dan Struktur jilid 2* (Edisi kelima). Jakarta: Binarupa Aksara.
- Bromme and Stahl (2005). Is a Hypertext a Book of Space? The Impact of Different Introductory Metaphors on Hypertext Construction. *Computers and Education*. 44, 115-133.
- Brown, A.L. (1987). Metacognition, Executive Control, Self Control, and Other Mysterious Mechanisms. In F. Weinert & R. Kluwe (Eds.), *Metacognition, Motivation, and Understanding*. Hillsdale, NJ: Erlbaum.
- Costa, A.L. (1985). *Development Mind: A Resource Book for Teaching Thinking*. Alexandria: ASCD.

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- Darmawan, D. (2011). *Teknologi Pembelajaran*. Bandung: PT Remaja Rosdakarya.
- Daniel, M.F. and Auriac, E. (2011). Philosophy, Critical Thinking and Phylosophy for Children. *Educational Phylosophy and Theory*, 43, (5), 415-421
- Demircioglu, G. (2004). An Investigation of Chemistry Student Teachers' Understanding of Chemical Equilibrium. *International Journal on New Trends in Education and Their Impilcations*, 4, (2), 285-192.
- Departemen Pendidikan Nasional. (2006). *Standar Kompetensi Mata Pelajaran Kimia Sekolah Menengah Atas dan Madrasah Aliyah*. Jakarta: Depdiknas
- Desmita. (2010). *Psikologi Perkembangan Peserta Didik*. Bandung: PT Remaja Roda Karya
- Daryanto. (2010). *Media Pembelajaran: Peranaannya Sangat Penting Dalam Mencapai Tujuan Pembelajaran*. Yogyakarta: Gava Media.
- Ennis, R. H. (1985). A logical basis for measuring critical thinking skills. *Educational Leadership*, 43(2), 44-48.
- Ennis, R.H.(2001). Critical Thinking Assessment:Teaching for Higher Order Thinking.*Theory Into Practice*, 32(3), 179-186
- Fisher, A. (2001). *Critical Thinking: An Introduction*. New York, NY: Cambridge University Press.
- Flavell, J. H. (1976). *Metacognition Aspects of Problem Solving*. In L.B. Resnick (eds). *The nature of Intellegence*. New Jersey: Lawrence Erlbaum Associates. 12. p. 331-235.
- Flavell, J. H. (1979). Metacognition and cognitive monitoring: A new area of cognitive-developmental inquiry.*American Psychologist*, 34(10), 906-911.
- Fraenkel, J. & Wallen, N.E. (2008). *How to Design and Evaluate Research in Education*. San Francisco: The McGraw-Hill Companies.
- Galotti, K.M. (1989). Approaches to studying Formal and Everyday Reasoning. *Psychology Bulettin*. 105 (3) 331-351

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

- Gama, C. A., (2004). *Intergrating Metacognition Instruction in Interactive Learning Environments*. Submitted for degree of D.Phil. Brighton, UK. University of Sussex.
- Gredler, M.E. (2011). *Learning and Instruction: Teori dan Aplikasi*. (Edisi keenam). Jakarta: Kencana
- Hacker, D.J., Dunlosky, J. And Graesser, A.C.(2009).*Handbook of Metacognition in Education*.New York, NY: Routledge.
- Hennessey, M.G. (1999). Probing The Dimension of Metacognition: Implication for Copceptual Change Teaching-Learning. *Paper presented at the annual Meeting of the National Association for Research in Science Teaching*. Boston, MA
- Hofstein, A., Kipnis, M. dan Kind, P. (2008). Learning In and From Science Laboratories: Enhancing Students' Metacognition and Argumentation Skills. *Science Education and Developments Rehovot* . New York: Nova Science Publishers, Inc.
- Huddle, P.A., White, M., and Rogers, F. (2000). Simulation for Teaching Chemical Equilibrium. *Journal of Chemical Education*, 77, 920-926
- Huitt, W. (1997). *Metacognition: Educational Psychology Interactive*. Valdosta, G.A: Valdosa State University. Retrived (September, 2006), from <http://chiron.valdosa.edu/whuitt/col/cogsys/metagn.html>.
- Jacobs, J.E. dan Paris, S.G. (1987). Children's Metacognition About Reading: Issues in Definition, Measurement, and Instruction. *Education Psychologist*.22, 255-278
- Jonassen, D.H. (2011). *Learning to Solv Problems: A Handbook for Designing to Problems Solving-Learning Environments*. New York, NY: Routledge.
- Jonstone,A.H. (1993).The Development of Chemistry Teaching: A Changing Response to Changing Demand. *Journal of Chemical Education*, 70, 701-704.
- Khabibah, S. (2006). *Pengembangan Model Pembelajaran Matematika dengan Soal Terbuka untuk Meningkatkan Kreativitas Siswa Sekolah Dasar*. Disertasi: Surabaya: Program Pascasarjana Unesa.

- Khan, S. and Chan, V. (2011). An Exploration of Digital Representations in Chemistry Education. *Journal of the Research Center for Educational Technology (RCET)*. 7, (2), 2-37
- Kuswana, W. S. (2012). *Taksonomi Kognitif*. Bandung:Remaja Rosada Karya.
- Larkins, S. (2010). *Metacognition in Young Children*. New York, NJ: Routledge.
- Lipman, M. (2004). *Interview on Philosophy for Children*. [http://www.bufno/e\\_resources/e\\_resources\\_c\\_3.html](http://www.bufno/e_resources/e_resources_c_3.html).
- Livingstone, J.A. (1997). Metacognition: on Overview. tersedia: <http://www.gse.buffalo.edu/cep564/Metacog.htm> [28 Nopember 2006].
- Magno, C. (2009). Assessing Grade School Students Metacognition in Solving Mathematical Problem. *The Assessment Handbook*. Manila: De La Salle University.
- Magno, C.(2010). The Role of Metacognitive Skills in Developing Critical Thinking. *Metacognition Learning*.5,137-156.
- Matlin, M.W. (1994). *Cognition* (thirth ed.). New York: Harcourt Brace Publishers, Fort Worth
- Matlin, M.W. (2003). *Cognition* (fifth ed.). New York: John Willey & Son, Inc.
- Matthew, R and Lally, J. (2010). *The Thinking Teacher's Toolkit. Critical thinking, Thinking Skills and Global Perspective*. New York, NY: Continuum International Publishing Group.
- Meltzer, D.E. (2002). The Relationship Between Mathematics Preparation and Conceptual Learning Gain in Physics: A Possible "Hidden Variable" in Diasnotic Pretest Scores. *American Journal of Physics* [Online]. Tersedia: <http://www.physics.iastate.edu/per/AJP-Des-2002-Vo, 70-1259-1268.pdf>. [Agustus 2013]
- Mossley, D. *et al.* (2005). *Frameworks for Thinking: A Handbook for Teaching and Learning*: Cambridge University Press.
- Munir. (2008). *Kurikulum Berbasis Tekbologi Informasi dan Komunikasi*. Bandung: ALFABETA

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

- Oladunni, M. (1998). An experimental study on the effectiveness of metacognitive and Heuristics problem solving technique on computational performance of students in mathematics. *International Journal of mathematical Education in Science and Technology*, 29, (6), 867-874.
- Pekdag, B. (2010). Alternative Methode in Learning Chemistry: Learning with Animation, Simulation, Video and Multimedia. *Journal of Turkish Science Education*. 7 (2), 111-118.
- Perfect, T.J., and Schawrtz, B.L. (2004). *Applied Metacognition*. New York, NY: Cambridge University Press.
- Petrucci, R.H. & Suminar (1999). *Kimia Dasar: Prinsip dan Terapan Modern*. Jakarta: Erlangga.
- Pintrich, P. R. (2002). *The role of metacognitive knowledge in learning, teaching and assessing*. *Theory into Practice*, 41(4), 219–225.
- Pressley, M., & Mc Cormick, C.B. (1995). *Advanced educational psychology for educators, researcher, and policy makers*. New York: HarperCollins.
- Rahman, F. (2011). *Assessment of Science Teachers Metacognitive And Its Impact on The Performance of Students*. Islamabad: Allama Iqbal Open University.
- Rusman. (2012). *Belajar dan Pembelajaran Berbasis Komputer*. Bandung: Alfabeta.
- Reid, G. (2005). *Dyslexia, Metacognition and Learning styles*. University of Edinburgh, Scotland. Alamat : <http://www.gavinreid.co.uk>. [21 Agustus 2006].
- Santrock, J.W. (2007). *Psikologi Pendidikan (terjemahan)*. Jakarta: Kencana.
- Saprudin. (2010). *Penggunaan Multimedia Interaktif Dalam Pembelajaran Rangkaian Arus Bolak Balik Untuk Meningkatkan Keterampilan Generik dan Berpikir Kritis Mahasiswa*. Tesis SPs UPI Bandung: tidak diterbitkan
- Saricayir, H., Sahin, M, and Uce, M. (2006). Dynamic Equilibrium Explained Using the Computer. *Eurasia Journal of Mathematics, Science and Technology Education*. 2, (2), 130-137.

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

- Schraw, G and Dennison, R.S. (1994). Assessing Metacognitive Awareness. *Contemporary Educational Psychology* 19, 460-475
- Schraw, G. (1998). Promoting General Metakognitive Awareness. *Instructional Science*, 26, 113-125.
- Schraw, G. Crippen, K.J., dan Hartley, K. (2006). Promoting Self-Regulation In Science Education: Metacognition as Part of A Broader Perspective on Learning *Research in Science Education*. 36, 111-139
- Stemler, L.K. (1997). Educational Characteristics of Multimedia: A Literature Review. *Journal of Education Multimedia and Hypermedia* 6, (3/4), 339-359.
- Stieff, M. and Wilensky, U. (2003). Connected Chemistry-Incorporating Interactive Simulations into the Chemistry Classroom. *Journal of Science Education and Technology*. 12 (3), 285-302.
- Suzana, W. (2004). *Meningkatkan Kemampuan Pemahaman dan Penalaran Matematis Siswa SMU Melalui Pembelajaran dengan pendekatan Metakognitif*. Tesis UPI Bandung: Tidak diterbitkan.
- Thomas, G., Anderson, D. & Nashon, S. (2008). Development of and Instrument Desaigned to Investigate Elements of Science Students' Metacognition, Self-Efficacy and Learning Processes: The SEMLI-S. *International Journal of Science Education*. 30 (13) pp. 1702-1724.
- Wiyono, K. (2009). *Penerapan Model Pembelajaran untuk Meningkatkan Penguasaan Konsep, Keterampilan Generik dan Berpikir Kritis Siswa SMA Pada Topik Relativitas Khusus*. Tesis SPs UPI Bandung: tidak diterbitkan
- Yerisan. (2010). *Pembelajaran Multimedia Interaktif Untuk meningkatkan keterampilan Generik Sains dan Penguapan Konsep Siswa SMA Pada Materi Suhu dan Kalor*. Tesis SPs UPI Bandung: tidak diterbitkan
- Yildirim, N., Kurt, S., and Ayas, A. (2011). The Effect of the worksheets on Students' Achievement in Chemical Equilibrium. *Turkish Science Education*, 8 (3), 44-58,

