

DAFTAR PUSTAKA

- Abell, S.K., Anderson, G. dan Chezem, J. (2000). "Science As Argument and Explanation: Exploring Concepts of Sound in Third Grade" dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington : American Association for the Advance of Science.
- Adisendjaja, Y.H. (2008). Analisis Buku Ajar Biologi SMA Kelas X Di Kota Bandung Berdasarkan Literasi Sains. [Online] Tersedia: www.file.upi.edu/.../PENELITIAN_ANALISIS_BUKU. [2 Februari 2012].
- Agin, M.L. (1974). "Education for Scientific Literacy: A Conceptual Frame of Reference and Some Applications". *Science Education*, 58, (3), 403-415.
- 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 – TOJET*. 3, (4).56-61.
- Akmal, M. (2008). *Membelajarkan Siswa Melalui Teori Belajar Konstruktivisme*. [Online] Tersedia <http://202.152.33.84/index.php?option=comcontent&task=view&id=15766&Itemid=46>. [5 Oktober 2009].
- Albert, B. (2000). "Thoughts of a Scientist On Inquiry" dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington : American Association for the Advance of Science.
- Alberta. (2004). *Focus on Inquiry: A Teacher's Guide to Implementing Inquiry-based Learning teacher's Guide*. Canada: the Crown in Right of Alberta.
- Al-Naqbi, A.K. (2010). "The degree to which UAE primary science workbooks promote scientific inquiry". *Research in Science & Technological Education*. [Online], 28, (3), 227–247. Tersedia: <http://www.informaworld.com/terms-and-conditions-of-access.pdf>. [5 Oktober 2010].
- American Architectural Foundation. (2009). Learning Environments: A 21st Century Skills, Implementation Guide. Tucson: Partnership for 21st Century Skills. [Online] Tersedia: <http://www.archfoundation.org/aaf/documents/report.designforlearning.pdf>. [20 Nopember 2012].
- American Association for the Advancement of Science/AAAS. (1993). *Benchmarks For Science Literacy*. Oxford: Oxford University Press.
- Anderson, O.W. dan Krathwohl, D.R. (2001). *A Taxonomy for Learning, Teaching, and Assessing*. New York : Long Man.

Anderson, R.D. (1996). *Study of Curriculum Reform*. Washington, DC: US Government Printing Office.

333

Arikunto, S. (2009). *Dasar-Dasar E idikan (Edisi Revisi)*. Jakarta: Bumi Aksara.

Astin, A.W. (2001). *What Matters in College? Four Critical Years Revisited*. San Francisco: Jossey-Bass.

Astuti, W.P., Prasetyo, A.P.B. dan Rahayu, E.S. (2012). Pengembangan Instrumen Asesmen Autentik Berbasis Literasi Sains Pada Materi Sistem Ekskresi. *Lembaran Ilmu Kependidikan*. 41(1),39-43.

Baker, D.R., *et al.* (2009). "The Communication in Science Inquiry Project (CISIP): "A Project to Enhance Scientific Literacy Through the Creation of Science Classroom Discourse Communities". *International Journal of Environment & Science Education*. 4, (3), 259-274.

Baram-Tsabari, A. dan Yarden, A. (2005). "Text Genre as a Factor in the Formation of Scientific Literacy". *Journal of Research in Science Teaching* 42, (4): 403–428.

Barker, L.J. dan Garvin-Doxas, K. (2004). "Making Visible the Behaviors that Influence Learning Environment: A Qualitative Exploration of Computer Science Classrooms". *Computer Science Education*. 14, (2), 119–145.

Beese, J dan Liang, X. (2010). Do resources matter? PISA science achievement comparisons between students in the United States, Canada and Finland. *Improving Schools*. 13, (3), 266–279.

Bennett, J. (2007). *Teaching and Learning Science*. London : Continuum.

Bielaczyc, K. (2006). "Designing Social Infrastructure: Critical Issues in Creating Learning Environments With Technology". *The Journal of The Learning Science*, 15, (3), 301–329.

Bonney, R. *et al.* (2009). Citizen Science: A Developing Tool for Expanding Science Knowledge and Scientific Literacy. *BioScience* 59, 977–984.

Bransford, J.D., Brown, A.L., dan Cocking, R.R. (1999). *How people learn: Brain, mind, experience, and school*. Committee on Developments in the Science of Learning with additional material from the Committee on Learning Research and Educational Practice, National Research Council.

334

Washington, DC: National Academy Press. [Online]. Tersedia: <http://www.nap.edu/html/howpeople1/>. [24 Mei 2012].

Brickman, P, *et al.* (2009) .Effects of Inquiry-based Learning on Students' Science Literacy Skills and Confidence *International Journal for the Scholarship of Teaching and Learning*. [Online] Tersedia: <http://www.georgiasouthern.edu/ijstl>. 3(2),1-22. [2 Februari 2012].

Briggs, A.R.J. dan Sommefeldt, D. (2002). *Managing Effective Learning and Teaching*. London : Paul Chapman Publishing.

Brown, B.A., Reveles, J.M. dan Kelly, G.J. (2005). “Scientific Literacy and Discursive Identity: A Theoretical Framework for Understanding Science Learning”. *Sci Ed.* **89** : 779– 802.

Brown, P.L., *et al.* (2006). “College science teachers' views of classroom inquiry”. *Science Education*, 90, (5), 784-902.

Bruner, J.S. (1966). *On Knowing: Essays for the Left Hand*. New York, NY: Atheneum

Bruner, J.S. (1977). *The Process of Education*. Cambridge : Havard University Press.

Buxton, C. A. (2001). The electronic Journal of Literacy Through Science. [Online] , Vol 1 :1-36. Tersedia: <http://ejlts.ucdavis.edu/sites/ejls.ucdavis.edu/files/articles/buxton.pdf>. [12 Feb 2011].

Bybee, *et al.* (2006). *The BSCS 5E Instructional Model: Origins and Effectiveness*. Colorado : Office of Science Education National Institutes of Health.

Bybee, R.W. (1997). *Achieving Scientific Literacy: From Purpose to Practices*. Portsmouth: Heinemann.

Bybee, R.W. (2000) “Teaching Science as Inquiry”, dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington DC.: American Association for the Advance of Science.

Bybee, R.W. (2002). Scientific Inquiry, Student Learning, and the Science Curriculum. dalam *Learning Science and the Science of Learning*. Bybee R.W. (Ed). Virginia : NSTA Press.

Bybee, R.W. (2009). *The BSCS 5E Instructional Model and 21ST Century Skills*. A Workshop Paper on Exploring the Intersection of Science Education and

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Dadi Setiadi, 2013

Pengembangan Model Pembelajaran Untuk Meningkatkan Kemampuan Literasi Sains Peserta Didik SMP

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the Development of 21st Century Skills. [Online]. Tersedia http://www.performanceexpress.org/wp-content/uploads/2011/10/PFI47_4_25.pdf. [15 Desember 2012].

- Campbell, T., Abd-Hamid, N.H. dan Chapman, H. (2010). "Development of Instruments to Assess Teacher and Student Perceptions of Inquiry Experiences in Science Classrooms". *J Sci Teacher Educ* 21, 13–30.
- Cavagnetto, A.R. *et al.* (2005). "Africa-America Institute-Iowa Math and Science Professional Development Workshop: A Distance Learning Approach for Math and Science Literacy in Africa". *Bulletin of Science, Technology & Society*, 25, (5), 446-454.
- Cennamo, K.S., Abell, S.K., dan Chung, M-L. (1996). "A layers of negotiation model for designing constructivist learning materials". *Educational Technology* 36 (4), 39 -48.
- Chabalengula, V.M. Mumba, F. (2008). Curriculum and Instructional Validity of the Scientific Literacy Themes Covered in Zambian High School Biology Curriculum. *International Journal of Environmental & Science*. 3 (4), 207-220.
- Champagne, A.B., Kouba, V.L. dan Hurley, M. (2000). "Assessing Inquiry", dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington: American Association for the Advance of Science.
- Chao, J. dan Parker, K.R. (2011). Developing an Interactive Social Media Based Learning Environment. *Issues in Informing Science and Information Technology*. Vol. 8, 323-334.
- Chen, F., Shi, Y., dan Xu, F. (2009) An Analysis of the Public Scientific Literacy Study in China. *Public Understanding of Sci.* [Online], 18, (5), 607–616. Tersedia: www.sagepublications.com. [27 Sept 2010].
- Cheung, D. (2007). "Facilitating chemistry teachers to implement inquiry-based laboratory work". *International Journal of Science and Mathematics Education*. 6, 107–30.
- Coffman, T. (2009). *Engaging Students Through Inquiry-Oriented Learning and Technology*. Plymouth: A Division of Rowman & Littlefield Publishers, Inc.
- Colemen, H. (2009). *Are International Standard Schools Really a Respon to Globalization*. Paper presented at the seminar Responding to Global Education Challenges. Held at UNY, 9th May 2009.

- Collins, A. (1995). *Learning Communities*. Presentation at the annual conference for the American Educational Research Association, San Francisco, CA, April, 1995.
- Collins, A. (2001). *How Students Learn and How Teachers Teach*. Dalam Science Educators' Essay Collection Learning Science and The Science Learning (Rodger W. Bybee. Ed). Virginia: NSTA Press.
- Collins, A. (2002). "How Students Learn and How Teachers Teach", dalam Science Educators' Essay Collection Learning Science and The Science Learning (Rodger W. Bybee. Ed). Virginia: NSTA Press.
- Collins, A., Brown, J. S. dan Newman, S.E. (1989). *Cognitive apprenticeship: teaching the crafts of reading, writing and mathematics*. In L.B. Resnik (ed.) *Knowing, learning and instruction: Essays in honor of Robert Glaser*. Lawrence Erlbaum: , Hillsdale, NJ.
- Creswell, J.W. (2008). *Educational Research, Planning, Conducting, and Evaluating Quantitative and Qualitative Research*. New Jersey : Pearson Education Inc.
- Dani, D. (2009). "Scientific Literacy and Purposes for Teaching Science: A Case Study of Lebanese Private School Teachers". *International Journal of Environment & Science Education*. 4, (3), 289-299.
- Deggs, D. (2009). Using Reflection To Evaluate Course Outcome. *Journal of College Teaching & Learning*. Vol. 6, (2), 41-48.
- Departemen Pendidikan Nasional. (2005). *Rencana Strategis Departemen Pendidikan Nasional Tahun 2005-2009, Menuju Pembangunan Pendidikan Nasional Jangka Panjang 2025*. Jakarta: Depdiknas.
- Devick-Fry, J. dan Le-Sage, T. (2010). "Science Literacy Circles: Big Ideas about Science". *Science Activities*. 47, 35-40.
- Dewey, J. (1916). *Democracy and Education*. Macmillan, New York: Henry Holt and Company. Inc..
- Dewey, J. (1938). *Logic the Theory of Inquiry*, New York : Henry Holt and Company. Inc.
- Dick, W. dan Carey, L. (1990). *The Systematic Design of Instruction 3rd Edition*. USA: Harper Collins Publisher.

- Dillon, J. (2009). "On Scientific Literacy and Curriculum Reform". *International Journal of Environment & Science Education*. 4, (3), 2001-213.
- Dunkin, M.J. dan Biddle, B.J. (1974). *The Study of Teaching*. New York : Holt Rixehorf and Wiston Inc.
- Dupigny-Giroux, L.L (2010). Exploring the Challenges of Climate Science Literacy: Lessons from Students, Teachers and Lifelong Learners. *Geography Compass* 4, (9), 1203–1217.
- Duschi, R.A., Schweingruber , H.A. dan Shouse, A.W. (2007). *Taking Science To School Learning and Teaching Science in Grades K-8*. New York: The National Academic Press.
- Dyasi, H.M. (2006). Vision of Inquiry : Science. In *Linking Science & Literacy in the K-8 Classroom*. R. Douglas, dkk. (Eds). Arlington : National Science Teacher Association Press. [Online] Tersedia: <http://depositfile.com/en/files/ivgemggmy> [12 April 2010].
- Echols, J.M. dan Shadily, H. (1989). *Kamus Inggris-Indonesia*. Jakarta: PT Gramedia
- Edelson, D.C., Gordin, D.N., dan Pea, R.D. (1999). "Addressing the Challenges of Inquiry-Based Learning Through Technology and Curriculum Design". *The Journal of The Learning Sciences*, 8 (3), 391-450.
- Eisenhart, M., Finkel, E. dan Marion, S.F. (1996). "Creating the Condition for Scientific Literacy ; A Re. Examination". *American Educational Research Journal*. 33, (2), 261-295.
- Eisenkraft, A. (2003). Expanding the 5E Model. *The Science Teacher*, 70, (6), 56-59.
- Eklund, J. *et al.* (2007). Promoting Student Scientific Literacy of Molecular Genetics and Genomics. Paper presented at the annual meeting of the National Association for Research in Science Teaching, April 2007, New Orleans.
- Ekohariadi. (2009). "Faktor-Faktor Yang Mempengaruhi Literasi Sains Sisa Indonesia Berusia 15 Tahun. *J. Pendidikan Dasar*. 10, (1). 28-41.
- Ellenbogen, K.M. (2006). *Informal Science Learning Environments: A Review of Research to Inform K-8 Schooling*. Washington: National Research Council Board on Science Education Science Learning K8.

- Ellis, S.S. (1979). Model of Teaching: Solution to the Teaching Style/Learning Style Dilemma. *J. Educator leadership*. January 1979, 274-279.
- Esler, W.K. dan Esler, M.K. (1996). *Teaching Elementary Science* (Seventh ed.). Boston : Wadsworth Publishing Company.
- Euler, D. (2006). *Revitalizing Ernst Mach's Popular Scientific Lectures*. Science & Education. London: Springer.
- Fang, Z. (2005). Scientific Literacy: A Systemic Functional Linguistics Perspective. *Sci Ed*. 89, 335– 347.
- Fang, Z. dan Wei, Y. (2010). “Improving Middle School Students’ Science Literacy Through Reading Infusion”. *The Journal of Educational Research*, 103, 262–273.
- Fazio, X., Melville, W., dan Bartley, A. (2010). “The Problematic Nature of the Practicum: A Key Determinant of Pre-service Teachers’ Emerging Inquiry-Based Science Practices”. *J. Sci. Teacher Educ*. 21, 665–681.
- Fensham, P.J. (2002). “Science Content as Problematic Issues for Research”. dalam. *Research in Science Education Past, Present, and Future*. Helga Behrendt, Helmut Dahncke, Reinders Duit, Wolfgang Gräber, Michael Komorek, Angela Kross, Priit Reiska. (eds) New York : Kluwer Academic Publisher.
- Fensham, P.J., Gunstone, R.F., dan White, R.T. (1994). “Science Content and Constructivist Views of Learning and teaching”, dalam *The Content of Science A Constructivist Approach to its Teaching and Learning*. London: The Falmer Press.
- Fok, S., dan Watkins, D. (2005). Does a Critical Constructivist Learning Environment Encourage a Deeper Approach to Learning? *The Asia Pacific Education Researcher* Vol 16. No1. [Online] Tersedia: <http://www.natefac.org/JFCSE/v27Standards4/v27Standards4Fox.pdf>. [23 Nopember 2012].
- Fortner, R.W. (2002). “Cooperative Learning : A Basic Instructional Methodology For Global Science Literacy”, dalam *In Global Science Literacy*. Netherlands : Kluwer Academic Publisher. [Online] .Tersedia: <http://depositfile.com/en/files/iglbw9ds8>. [11 Maret 2010].
- Foster, J.S. dan Shiel-Rolle, N. (2011). Building scientific literacy through summer science camps: a strategy for design, implementation and

assessment . *Science Education International*. 22, (2), 85-98.

Fourez, G. (1997). "Scientific and Technological Literacy as a Social Practice". *Social Studies of Science*. [Online], 27, 903-936. Tersedia: <http://sss.sagepub.com/content/27/6/903>. [25 September 2010].

Frank, T.H. (2006). Enhancing Supportive Learning Environments and Student Achievement through. *ALERT Educator/Spring*. [Online]. 06, 1- 6. http://daretodifferentiate.wikispaces.com/file/view/319_EnhancingSLE_and_SA.pdf. [20 Nopember 2012].

Friedl, A.E . (1986). *Teaching Science to Children An Integrated Approach*. New York: Random House, Inc..

Gage, N.L. (2009). *A Conception of Teaching*. New York : Springer.

Gall, M.D., Gall, J.P. dan Borg, W.R. (2003). *Educational Research : An Introduction 7th Edition*. Boston : Allyn and Bacon.

Gallagher, J.J. (2007). *Teaching Science For Understanding A Practical Guide for Middle and High School Teacher*. Ohio: Pearson Merrill Prentice Hall.

Gengarelly, L.M., dan Abrams, E.D . (2009). "Closing the Gap: Inquiry in Research and the Secondary Science Classroom". *J Sci Educ Technol* 18, 74-84

Ghazali A.S. (2002). *Menerapkan Paradigma Konstruktivisme melalui Strategi Belajar Kooperatif*. *Jurnal Pendidikan & Pembelajaran*, Vol. 9, (2), 2002: 115-131.

Gonzales, P. (2008). *Highlights from TIMSS 2007 : Mathematics and Science Achievement of US Fourth and Eighth-Grade Students in An International Context*. Institutes of Education Sciences.

Good, R., dan Shymansky, J. (2001). "Nature-of-Science Literacy in Benchmarks and Standards: Post-Modern/Relativist or Modern/Realist?". *Science & Education*. 10, 173-185.

Gräber, W., et al.. (2002). Scientific Literacy: From Theory to Practice. dalam *Research in Science Education –Past, Present, and Future*. Helga Behrendt, Helmut Dahncke, Reinders Duit, Wolfgang Gräber, Michael Komorek, Angela Kross, Priit Reiska. (eds). New York : Kluwer Academic Publisher

- Grandy, R.E. (2000). "On the Cognitive Analysis of Scientific Controversies" dalam *Scientific Controversies: Philosophical and Historical Perspectives*. Oxford: Oxford University Press.
- Haight, A.D. dan González-Espada, W.J. (2009). Scientific Literacy in Central Appalachia Through Contextually Relevant Experiences: The "Reading the River" Project. *International Journal of Environmental & Science Education*. 4, (3), 215-230.
- Halliday, M.A.K. (1998). "Things and relations: Regrammaticising experience as technical knowledge", dalam *Reading science: Perspectives on discourses of science*. London: Routledge.
- Hammer, D.F. (2000). "Teacher Inquiry", dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington : American Association for the Advance of Science.
- Hand, B. *et al.* (2010). "Connecting Research in Science Literacy and Classroom Practice : A Review of Science Teaching Journals in Australia , the UK and the United State, 1998-2008". *Studies in Science Education*. 46, (1), 45-68.
- Hapgood S., Magnusson, S. J. dan Palincsar, A.S. (2004). "Teacher, Text, and Experience: A Case of Young Children's Scientific Inquiry". *The Journal of the Learning Sciences*, 13, (4), 455-505.
- Hardy, I., *et al.* (2006). Effects of Instructional Support Within Constructivist Learning Environments for Elementary School Students' Understanding of "Floating and Sinking". *Journal of Educational Psychology* . Vol. 98, (2), 307-326
- Harlen, W. (1999). The Assessment of Scientific Literacy Within The Pisa. [Online] Tersedia:www.pisa.oecd.org. [2 Juni 2009].
- Harlen, W. (2001). "The Assessment of Scientific Literacy in the OECD/PISA Project". *Studies in Science Education*. 36,79-104.
- Harlen, W. (2002). The OECD's Program for International Student Assessment (PISA) and Its Impact on School Science Curricula. [Online] Tersedia: www.pisa.oecd.org. [2 June 2009].
- Harwood, W.S. 2004. A New Model for Inquiry *Journal of College Science Teaching*, Vol. 33, No. 7, July/August 2004.1-5.

- Haryana, K. (2008). *Sekolah Bertaraf Internasional* [Online] Tersedia: http://www.depdiknas.go.id/publikasi/balitbang/jek2/jek2_08.pdf. [31 Desember 2009]
- Hassard, J. (2005). *The Art of Teaching Science, Inquiry and Innovation in Middle School and High School*. New York : Oxford University Press. [Online]. Tersedia: http://avaxhome.ws/ebooks/eLearning_book/Art_Teaching_Science.html. [28 April 2010].
- Hattie, J.A.C. (2009). *Visible Learning A synthesis of over 800 meta-analyses relating to achievement*. New York: Routledge.
- Hawkins, R. (2000). "Science Beyond Labeling", dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington DC.: American Association for the Advance of Science.
- Hinduan, A. (2007). "Sains dan Teknologi" dalam *Dalam Rujukan Filsafat, Teori dan Praksis Ilmu Pendidikan*. Bandung : UPI Press.
- Hofstein, A., Kipni, M., dan Kind, P. (2008). "Learning in and from Science Laboratories: Enhancing Students' Meta-Cognition and Argumentation Skills". *J Sci Teacher Educ* 21: 329–349.
- Holbrook, J. dan Rannikmae, M. (2009). "The Meaning of Scientific Literacy" *International Journal of Environment & Science Education*. 4, (3), 275-288.
- Holbrook, J. dan Rannikmae, M. (2007). "The Nature of Science Education for Enhancing Scientific Literacy". *International Journal of Science Education*. 29, 11, 1347–1362.
- Holden, I.I. (2012) . Predictors of Students' Attitudes Toward Science Literacy. *Communications in Information Literacy*. 6, (1),107-123.
- Hornby, A.S. dan Cowie, A.P. (1974). *Oxford Advanced Learner's Dictionary of Current English*. Oxford : Oxford University Press.
- <http://siteresources.worldbank.org/INTINDONESIA/Resources/Publication/280016-1106130305439/617331-1110769011447/810296-1110769073153/education.pdf>. [Online] Tersedia: [27 Juni 2009]
- <http://www.cals.ncsu.edu/agexed/leap/aee535/db.htm>. A Model for the Study of Classroom Teaching An Explanation. [Online] Tersedia: [12 Mei 2010].

- Hurd, P.D. dan. Gallagher, J.J. (1966). "Goals Related to the Social Aspects of Science", dalam *Sequential Programs in Science for a Restructured Curriculum*. Cleveland: Educational Research Council.
- Jalmo, T. (2007). *Profile Of Science Teachers' Performances Of Junior High School In Bandar Lampung City In Anticipating Educational Standardization Era*. Proceeding of The First International Seminar on Science Education Indonesia University of Education.
- Jarman, R. dan McClune, B. (2007). *Developing Scientific Literacy Using News Media in the Classroom*. New York : Open University Press
- Jeong, H. dan Songer, N.B. (2008). Understanding Scientific Evidence and the Data Collection Process: Explorations of Why, Who, When, What, and How dalam *Science Education Issues and Developments*. Calvin L. Petroselli. (Ed) New York : Nova Science Publishers, Inc..
- Johnston, A. (2008). "Demythologizing or dehumanizing? A response to Settlage and the ideals of open inquiry". *Journal of Science Teacher Education*. 19, 11–13.
- Johnston, J.S. (2009). *Deweyan Inquiry From Education Theory to Practice*. New York : Suny Press. [Online], Tersedia:http://hotfile.com/dl/7628229/77f58a9/0791493555_.rar.html. [30 Desember, 2009].
- Joyce, B. dan Calhoun, E. (2009). Three Sides of Teaching: Styles, Models, and Diversity. dalam *International Handbook of Research on Teachers and Teaching Part One*. Lawrence J. Saha, dan A. Gary Dworkin (Eds). New York: Springer .
- Joyce, B. dan Weil, M. (1986). *Model of Teaching*. New Jersey : Ptentice-Hall Inc.
- Joyce, B., Weil, M., dan Calhoun, E. (2011). *Models of Teaching*. Boston: Pearson Education International.
- Judy, W. (2000). "How Does a Teacher Facilitate Conceptual Development in the Intermediate Classroom ?" dalam *Inquiring into Inquiry Learning and Teaching in Science* Washington: American Association for the Advance of Science.
- Kanasa,H. dan Nichols, K.. (2008). Addressing emerging science and technology issues: Raising scientific literacy skills of middle years students in Queensland schools. AARE Conference, Brisbane.

- Kaniawati, I. (2007). *Increasing Physics Ability Pre-service Physics Teacher through Inquiry Base Learning Model at Introduction Physics*. Proceeding of The First International Seminar on Science Education. Indonesia University of Education.
- Karagiorgi, Y., dan Symeou, L. (2005). Translating Constructivism into Instructional Design: Potential and Limitations. *Educational Technology & Society*, 8, (1), 17-27.
- Keser, O.F. dan Akdeniz, A.R. (2010). Assessment of the constructivist physics learning Environments. *Asia-Pacific Forum on Science Learning and Teaching*, Volume 11, 1, 1-12. [Online] Tersedia: http://www.ied.edu.hk/apfslt/download/v11_issue1_files/keser.pdf. [20 Nopember 2012].
- King, C. (2002). The Explanatory Stories Approach to A Curriculum For Global Science Literacy. *Dalam Global Science Literacy*, VJ Mayer (Ed). Netherlands : Kluwer Academic Publisher. [Online] Tersedia: <http://depositfile.com/en/files/iglbw9ds8>. [11 Maret 2010].
- Knain, E. (2006). “Achieving Science Literacy Through Transformation of Multimodal Textual Resources”. *Sci Ed.* 90, 656– 659.
- Krajcik, J. dan Czerniak, C. (2007). *Teaching Science in Elementary and Middle School, A Project-Based Approach*. London : Lawrence Elbaum Associates.
- Krajcik, J., et al. (2000). “Instructional, Curricular, and Technological Supports for Inquiry in Science Classrooms”, dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington: American Association for the Advance of Science.
- Krajcik, J., et al. (1998). “Middle school students initial attempts at inquiry in project-based science classrooms”. *The Journal of Learning Sciences.* 7, (3), 313-350.
- Kuhlthau, C.C., Maniotes, L.K. dan Caspari, A.K. (2007). *Guided Inquiry Learning in the 21st Century*. London : Libraries.

- Kwan, R. (2000). Tapping Into Children's Curiosity. Dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington DC.: American Association for the Advance of Science.
- Lang, M., Drake, S. dan Olson, J. (2006). "Discourse and the New Didactics of Scientific Literacy". *J. Curriculum Studies*. 38, (2), 177-188.
- Larrivee B dan Cooper, J.M. (2006). *An Educator's Guide to Teacher Reflection*. USA: Cengage Learning. [Online] Tersedia: <http://cengagesites.com/academic/assets/sites/4004/Education%20Modules/gd%20to%20teach%20refl.pdf> . [2 Desember 2012].
- Laughksch, R.C. (2000). "Scientific Literacy: A Conceptual Overview". *Science Education*. [Online]. 84, 71-94. Tersedia : http://ci.unlv.edu/files/Laugksch_Scientific_Literacy.pdf [10 Januari 2010].
- Lawless, K.Y.A. dan Brown, S.W. (1997). Multimedia learning environments: Issues of learner control and navigation. *Instructional Science* 25: 117-131,.
- Lawson, A.E. (1996). *Science Teaching and The Development of Thinking*, California: Wadworth Publishing Company.
- Lawson, A.E. (1999) *Science Teaching and Development of Thinking*. California : Wadsworth Publishing Company.
- Lay, D. (2000). "Science Inquiry Conference—A Better Way", dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington: American Association for the Advance of Science.
- Lehrer, R., Carpenter, S., Schauble, L. dan Putz, A. (2000). *Designing Classrooms That Support Inquiry*. Dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington DC.: American Association for the Advance of Science.
- Lima, A., *et al.* (2010). "Field Trip Activity in an Ancient Gold Mine : Scientific Literacy in Informal Education". *Pub. Understanding Sci*. 19, (3), 322-334.
- Lina, H-S, Hong, Z-R dan Cheng, Y-Y (2009). The Interplay of the Classroom Learning Environment and Inquiry-based Activities. *International Journal of Science Education Vol. 31, No. 8, 15 May 2009, pp. 1013-1024*.

- Liu, X. (2009). "Beyond Science Literacy: Science and the Public". *International Journal of Environment & Science Education*. 4, (3), 301-311.
- Machamer, P., Pera, M., dan Baltas, A. (2000). *Scientific Controversies: Philosophical and Historical Perspectives*. Oxford: Oxford University Press.
- Magnus, A. (2006). Scientific Inquiry Dalam .Technology-based inquiry for middle school: Edwin P. Christmann (ed)Arlington: National Science Teachers Association Press.
- Mariati. (2007). *Menyoal Profil Sekolah Bertaraf Internasional*. [Online], Tersedia: http://www.depdiknas.go.id/publikasi/balitbang/067/j67_04.pdf [31 Desember 2009].
- Marks, R. dan Eilks, I. (2009). "Promoting Scientific Literacy Using a Sociocritical and Problem-Oriented Approach to Chemistry Teaching: Concept, Examples, Experiences". *Interntaional Journal of Environment & Science Education*. 4, (3), 231-245.
- Marshall, J.C., Smart, J. dan Horton, R. M. (2009). The Design And Validation of Equip: An Instrument to Assess Inquiry-Based Instruction. *International Journal of Science and Mathematics Education*. 8, 299-321.
- Martin, M.O., *et al.* (2004). TIMSS International Sconce Report. Boston : TIMSS & PIRLS International Study Center Lynch School of Education. [Online] Tersedia: http://timssandpirls.bc.edu/PDF/t03_download/T03INTLSCIRPT.pdf. [18 April 2011].
- Martin, M.O., *et al.* (2000). TIMSS International Sconce Report. Boston : The International Study Center Boston College. [Online] Tersedia: http://timssandpirls.bc.edu/timss_1999i/pdf/T99i_Sci_All.pdf. [18 April 2011].
- Martin, M.O., Mullis, I.V.S., dan Foy, P. (2008). TIMSS International Sconce Report. Boston : TIMSS & PIRLS International Study Center Lynch School of Education. [Online] Tersedia: http://timssandpirls.bc.edu/TIMSS2007/PDF/TIMSS2007_InternationalScienceReport.pdf. [18 April 2011].
- Mayaba N.N (2008). The Effect Of A Scientific Literacy Strategy On Grade 6 and 7 Learner's General Literacy Skills. Thesis. Faculty of Education at the Nelson Mandela Metropolitan University. [Online] Tersedia: <http://www.nmmu.ac.za/helpingteachers/GroupProjectWebb/NOKHANYO>

%20NOMAKHWEZI%20MAYABA%20Med.pdf. [2 Februari 2012].

- Mayer, V.J. dan Tokuyama, A. (2002). Evolution of Global Science Literacy As a Curriculum Construct. dalam *Global Science Literacy*, VJ Mayer (Ed). Netherlands : Kluwer Academic Publisher. [Online] Tersedia: <http://depositfile.com/en/files/iglbw9ds8> [11 Maret 2010].
- Merrill, M.D. (2002). First Principles of Instruction. *J. ETR & D*, Vol. 50, (3), 43–59.
- Mezirow, J. (1998). On Critical Reflection. *Adult Education Quarterly* 48 (3). 185-198.
- Michael, R. S.I. 2002. Inquiry & Scientific Method Inquiry & Scientific Method. Fall 2002. 1-5.
- Millar, R. dan Osborne, J. (1998) . Beyond 2000 : Science Education For the Future. London : King College. [Online] Tersedia: <http://www.kcl.ac.uk/content/1/c6/01/32/03/b2000.pdf>. [2 Januari 2009].
- Minstrell, J. (2000). Implications for Teaching and Learning Inquiry: A Summary Inquiry. [Online] , Tersedia: http://hotfile.com/dl/7628229/77f58a9/0791493555_rar.html. [30 Desember. 2009] .
- Mitman, A.L., *et al.* (1987). Instruction Addressing the Components of Scientific Literacy and Its Relation to Student Outcomes. *American Educational Research Journal*. [Online] 24: 611. Tersedia: : <http://aer.sagepub.com/content/24/4/611> . [25 September 2010].
- Modell, H.I. (1996). Preparing Students to Participate in an Active learning Environment. *Advances in Physiology Education*. 15, 1, S69-S77.
- Mullins, J.D.W. (1995). “The Science Literacy Crisis, Philosophical Issues, and The Origin Sciences”. *Origins of Life and Evolution of the Biosphere*. 25, 495-510.
- Mulyasa, E. (2008). *Kurikulum Tingkat Satuan Pendidikan*. Bandung : Rosda Karya.
- Murphy, C., *et al.* (2001). “National Curriculum : Compulsory School Science- Is It Improving Scientific Literacy ?”. *Education Research*. 43, (2), 189-199.

- Mutonyi, H., Nielsen, W. dan Nashon S. (2007). "Building Scientific Literacy in HIV/AIDS Education: A case study of Uganda". *International Journal of Science Education*. 29, (1), 1363–1385.
- Myers, R.J dan Botti, J.A (1997). Design, Development, and Implementation of an Inquiry-Based, Technology-Rich, Science Curriculum. Presentation to the Annual Meeting of the American Education Research Association. Chicago. [Online] Tersedia: <http://www.cet.edu/pdf/curriculum.pdf>. [12 Desember 2012].
- National Curriculum Board. (2009). Shape of the Australian Curriculum: Science. Barton : Commonwealth of Australia. [Online] Tersedia: http://www.acara.edu.au/verve/resources/Australian_Curriculum_-_Science.pdf [10 Desember 2012].
- National Research Council. (1996). *National Science Education Standards*. Washington : National Academic Press.
- National Research Council. (2000). *Inquiry and the National Science Education Standards: A Guide for Teaching and Learning*. Washington, DC: National Academy Press.
- National Research Council (NRC). (2005). *America's lab report: Investigations in high school science*. Washington, DC: National Academy Press.
- Nissley, C. (2000). Giving Children a Chance to Investigate According to Their Own Interests. dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington DC.: American Association for the Advance of Science.
- Norris, S., dan Phillips, L. (2003). "How Literacy in Its Fundamental Sense Is Central to Scientific Literacy". *Science Education*. 87, 224-240.
- Oliva, P.F. (1992) *Developing the Curriculum*, New York, HarperCollins Publisher.
- Olson, S. dan Loucks-Horsley, S. (2000). *Inquiry and the National Science Education Standards: A Guide for Teaching and Learning. Committee on the Development of an Addendum to the National Science Education Standards on Scientific Inquiry*. National Academies Press. [Online]. Tersedia:<http://www.nap.edu/catalog/9596.html> [21 Desember, 2009].

- Omar, O. (2009). Teachers' Questioning Techniques and Their Potential in Heightening Pupils' Inquiry. International Conference on Primary Education. Hongkong, 25-27, 11, 2009.
- Organization for Economic Co-operation and Development/OEC. (1998). *Making The Curriculum Work*. Danvers: OECD Publications. [Online] Tersedia <http://www.copyright.com/> [2 Juni 2009].
- Organization for Economic Co-operation and Development/OECD. (1999). *Measuring Student Knowledge and Skills. A New Framework for Assessment. 2000*. Paris: OECD. [Online] Tersedia <http://www.oecd.org/dataoecd/45/32/33693997.pdf> [24 Maret 2011].
- Organization for Economic Co-operation and Development/OECD. (2000). *Measuring student knowledge and skills: The PISA assessment of reading, mathematical and scientific literacy*. Paris: OECD.
- Organization for Economic Co-operation and Development/OECD. (edt.). (2001). *Knowledge and Skills for Life. First Results from the OECD Program for International Student Assessment (PISA) 2000*. Paris: OECD.
- Organization for Economic Co-operation and Development/OECD. (2003a). *Literacy Science*. [Online]. Tersedia: <http://www.oecd.org/dataoecd/38/29/33707226.pdf> . [5 Januari 2010].
- Organization for Economic Co-operation and Development/OECD. (2003b). *The PISA 2003 Assessment Framework-Mathematics, Reading, Science and Problem Solving Knowledge and Skill*. Paris : OECD.
- Organization for Economic Co-operation and Development/OECD. (2006). *Assessing Scientific, Reading and Mathematical Literacy, A Framework for PISA 2006*. Paris : OECD Publications.
- .Organization for Economic Co-operation and Development/OECD.(2007). *PISA 2006 Science Competencies for Tomorrow's World Volume 1 – Analysis*. Danvers: OECD Publishing. [Online]. Tersedia: <http://www.oecd.org/dataoecd/30/17/39703267.pdf>. [24 Maret 2011].
- Organization for Economic Co-operation and Development/OECD. (2009). *PISA 2009 Assessment Framework, Key Competencies in Reading, Mathematics and Science* . Paris : OECD Publications.
- Organization for Economic Co-operation and Development /OECD. (2010). *PISA 2009 Results: What Students Know and Can Do Student Performance in*

Reading, Mathematics and Science (Volume I). OECD publications. [Online]. Tersedia: <http://browse.oecdbookshop.org/oecd/pdfs/browseit/9810071E.PDF>. [24 Maret 2011].

Padilla, M. (2010). “Inquiry, Process Skills, and Thinking in Science”. *Science and Children J.* [Online]. Tersedia: <http://proquest.umi.com.ezproxy2.library.usyd.edu.au/pqdweb?>. [5 Oktober 2010].

Parkinson, J. dan Adendorff, R. (2006). The use of popular science articles in teaching scientific literacy. [Online] Tersedia: http://eprints.ru.ac.za/457/1/The_use_of_popular_science_articles_in_teaching_scientific_literacy.pdf. [2 Februari 2012]

Peraturan Menteri Pendidikan Nasional Republik Indonesia Nomor 22 Tahun 2006. *Tentang Standar Isi Untuk Satuan Pendidikan Dasar Dan Menengah*.

Peraturan Menteri Pendidikan Nasional Republik Indonesia Nomor 41 Tahun 2007. *Tentang Standar proses untuk Satuan Pendidikan dasar dan Menengah*

Peters, E.E. (2010). .Shifting to a Student-Centered Science Classroom: An Exploration of Teacher and Student Changes in Perceptions and Practices. *J Sci. Teacher Educ.* 21:329–349.

Plakitsi, K. (2010). “Collective Curriculum Design as a Tool for Rethinking Scientific Literacy”. *Cult Stud of Sci. Educ.* 5, 577–590.

Poedjiadi, A. (1987). *Sejarah dan Filsafat Sains*. Bandung: Depdikbud, FPS IKIP Bandung.

Poedjiadi, A. (1996). “Upaya Pendidikan Dalam Mengembangkan Literasi Sains dan Teknologi Bagi Masyarakat” . Makalah yang disajikan pada seminar Teknologi dan Masyarakat Untuk Meningkatkan Pemahaman dan Kepedulian Masyarakat Terhadap Lingkungan, Bandung.

Poedjiadi, A. (2001). *Pengantar Filsafat Ilmu Bagi Pendidikan* . Bandung: Yayasan Cendrawasih.

Poedjiadi, A. (2007). *Pendidikan Sains dan Teknologi*. Dalam Rujukan Filsafat, Teori dan Praksis Ilmu Pendidikan. Bandung : UPI Press.

Popli, R. (1999). Scientific Literacy for All Citizen : Different Concept and Content. *Public Understanding of Science* 8:123-137. [Online]. Tersedia: <http://pus.sagepub.com/content/8/2/123>. [25 September 2010].

- Preczewski, P.J., Mittler, A. dan Tillotson. J.W. (2009). "Perspectives of German and US Students as They Make Meaning of Science in Their Everyday Lives". *Interntaional Journal of Environment & Science Education*. 4, (3), 247-258.
- Print, M. (1993). *Curriculum Development and Design* (2nd Edition). St Leonards : Allen & Unwin Pty Ltd.
- Pusat Kurikulum. (2007). *Naskah Akademik Kajian Kebijakan Kurikulum Mata Pelajaran IPA*. Jakarata: Puskur Balitbang Depdiknas.
- Puslitjaknov. (2008). *Metode Penelitian Pengembangan*. Jakarta : Pusat Penelitian Kebijakan dan Inovasi Pendidikan, Balitbang Depdiknas.
- Rascoe, B. (2010). "What Is Heat ? Inquiry Regarding the Science of Heat". *Science Activities*, 47, 109–114.
- Reed J. dan Koliiba, C. (2003). *Facilitating Reflection A Manual for Leaders and Educators*. [Online]. Tersedia: http://www.uvm.edu/~dewey/reflection_manual/index.html. [2 Desember 2012].
- Richards, J.C. (1990). *Towards Reflective Teaching*. [Online] Tersedia: <http://www.tttjournal.co.uk>. [2 Desember 2012].
- Roth, K. dan Garnier, H. (2007). *What Science Teaching Looks Like: An International Perspective Science in the Spotlight: Vol. 64, (4), 16-23.*
- Roth, W.M. dan Barton, A.C. (2005). *Rethinking Scientific Literacy*. New York : Routledge Falmer.
- Roth, W.M., dan Lee, S. (2002). "Scientific Literacy as Collective Praxis". *Public Understanding of Science*. 11, 1 – 24.
- Roth, W.M., dan Lee, S. (2004). "Science Education as/for Participation in the Community". *Science Education*. 88, 263–291.
- Rustaman, N.Y. (2007). *Kemampuan Dasar Bekerja Ilmiah dalam Pendidikan Sains dan Asesmennya*. Proceeding of The First International Seminar on Science Education Indonesia University of Education. Bandung.
- Rustaman, N.Y. (2010).` Literasi Sains Anak Indonesia 2000 dan 2003. [Online] Tersedia: http://file.upi.edu/Direktori/SPS/PRODI_PENDIDIKAN_IPA/195012311979032-NURYANI_RUSTAMAN/MAKALAH_LITSAINS_2003_sep,06.pdf. 1-20. [1 Maret 2012].

- Rutherford, F.J., dan Ahlgren, A. (1991). *Science for all Americans*. New York: Oxford University Press.
- Schroeder, M. (2008). The Contribution of Trade Books to Early Science Literacy: In and Out of School. *Res Sci Educ.* 39,231–250.
- Schroeder, M., *et al.* (2009). “The Contribution of Trade Books to Early Science Literacy: In and Out of School”. *Res Sci Educ.* 39, 231–250.
- Severa, S., Yurumezoglua, K., Oguz-Unvera, A. (2010). Comparison Teaching Strategies of Videotaped and Demonstration Experiments in Inquiry-Based Science Education. *Procedia Social and Behavioral Sciences* 2: 5619–562.
- Shwartz, Y., Ben-Zvi, R. dan Hofstein, A. (2006). The use of scientific literacy taxonomy for assessing the development of chemical literacy among high-school students. *Chemistry Education Research and Practice*, 7, (4), 203-225.
- Simpson, D. (2000). Collaborative Conversations: Strategies for Engaging Students in Productive Dialogues. dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington DC.: American Association for the Advance of Science.
- Smith, M.H., Heck, K.E, dan. Worker, S.A. (2012). 4-H boosts youth scientific literacy with ANR water education curriculum. *California agriculture.* 66, (4),158-163.
- Smith, P. dan Apple, D.K. (2005). Overview of Quality Learning Environments. [Online] Tersedia: http://www.facultyguidebook.com/3_1_1.pdf. [20 Nopember 2012]
- Somantrie, H. (2008). *Sekolah/Madrasah Bertaraf Internasional (Penyelenggaraan dan Penjaminan Mutu)* [Online]. Tersedia : http://www.depdiknas.go.id/publikasi/balitbang/jek1/jek1_01.pdf [31 Desember 2009].
- Sorden, S.D. (2005). “A Cognitive Approach to Instructional Design for Multimedia Learning”. *Informing Science Journal* .Vol. 8, 2005.
- Spronken-Smith, R., dan Walker, R. (2010). Can inquiry-based learning strengthen the links between teaching and disciplinary research? *Studies in Higher Education.* [Online] Vol. 35, 6, , 723–740. Tersedia:

<http://www.informaworld.com/smpp/title~content=t713445574>. [5 Oktober 2010].

Srbnovski, M., Erdogan, M. dan Ismaili, M. (2010). "Enviromnetal Literacy in the Science Education Curriculum in Macedonia and Turkey". [Online], *Procedia Social and Behavioral Science*. 2, 4528-4532. Tersedia: www.sciencedirect.com. [25 September 2010].

State Council of the People's Republic of China. (2006). *The Outline of the Action Plan for Improving Scientific Literacy for All (From 2006–2010 and then 2010–2020)*. Beijing: The People Press.

Sugiyono. (2008a). *Memahami Penelitian Kualitatif*. Bandung: CV Alfabeta.

Sugiyono. (2008b). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan RT & D*. Bandung : Alfabeta.

Sujanem, (2005). bahwa implementasi pendekatan STM dalam pembelajaran IPA di kelas IV SD No 6 Banjar Jawa Singaraja dapat meningkatkan kualitas literasi sains dan teknologi siswa yaitu dari kategori cukup. *Jurnal Pendidikan dan Pengajaran IKIP Negeri Singaraja*, Edisi Khusus TH. XXXVIII Desember 2005,783-807.

Sukmadinata, N. S. (2003). *Metode Penelitian Pendidikan*. Bandung: PT Remaja Rosdakarya.

Sumaji, *et al.* (1998). *Pendidikan Sains Yang Humanistis*. Yogyakarta: Kanisius.

Sungur, S. dan Gungoren, S. (2009). The Role of Classroom Environment Perceptions in Self-Regulated Learning and Science Achievement. *Elementary Education* [Online], 8, (3), 883-900. Tersedia: <http://ilkogretim-online.org.tr>. [23 Nop 2012].

Suparno, P. (1997). *Filsafat Konstruktivime dalam Pendidikan*. Yogyakarta: Kanisius

Swafford, M.D. dan Dainty, H.T. (2009). Learning Environment: Respecting Diversity and Exceptionality. *Journal of Family and Consumer Sciences Education*, 27, (4), 45-59.

Taber, K.S. (2009). *Progressing Science Education, constructing the Scientific Research Program Into the Contingent Nature of Learning Science*. London : Springer. [Online], Tersedia: <http://depositfiles.com/en/files/zhgvpacs>. [12 Februari 2010].

- Tan, M. (2004). Nurturing Scientific and Technological Literacy through Environmental Education *Journal of International Cooperation in Education*, 7, (1),115-131.
- Tenenbaum, G. *et al.* (2001). Constructivist pedagogy in conventional on-campus and distance learning practice: An exploratory investigation. *Learning and Instruction* 11, 87-111.
- Tobin, K. (2010) . “Issues of our time: science, religion, and literacy”. *Cult Stud of Sci Educ.* 5, 1–4.
- Tseng, Y.H., *et al.* (2010). Mining Concept Maps from News Stories for Measuring Civic Scientific Literacy in Media. 55, 165-177. [Online], Tersedia: www.elsevier.com/locate/compedu. [25 September 2010].
- Undang Undang Dasar Republik Indonesia Tahun 1945.
- Unu, H.B. (2008). *Model Pembelajaran Menciptakan Proses Belajar Mengajar yang Kreatif dan Efektif*. Jakarta : Sinar Grafika Offset
- Van Hook, S.J., *et. al* . (2011). Relationship Between Students’ Perceptions of Classroom Environment and Their Motivation in Learning English Language. *International Journal of Humanities and Social Science* Vol. 1, 21 [Special Issue - December 2011].
- Vygotsky, L.S. (1978). *Mind in Society, The Development of Higher Psychological Processes.*(Michael Cole, Vera John-Steiner, Sylvia Scribner dan Ellen Sourbeman, Eds) London: Harvard University Press.
- Webb, P. (2009). “Towards an Integrated Learning Strategies Approach to Promoting Scientific Literacy in the South African Context”. *Interntaional Journal of Environment & Science Education*. 4, (3), 313-334.
- Wee, B., *et al.* (2007). “Teaching and learning about inquiry: Insights and challenges in professional development”. *Journal of Science Teacher Education*, Vol. 18, (1), 63-89.
- Wei, L. S. dan Elias, H. (2011). Relationship Between Students’ Perceptions of Classroom Environment and Their Motivation in Learning English Language. *International Journal of Humanities and Social Science* Vol. 1 No. 21 [Special Issue - December 2011]
- Wheeler, G.F. (2000). The Three Faces of Inquiry dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington : American Association for the Advance of Science.

- White, B.Y. dan Frederiksen J.R. (2000). "Metacognitive Facilitation: An Approach to Making Scientific Inquiry Accessible to All" dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington: American Association for the Advance of Science.
- Widodo, A. (2004). *Constructivist Oriented Lessons The Learning Environments and the Teaching Sequences*. Frankfurt : Peter Lang Europascher verlag der Wissenschaften,
- Wiley, J. *et al.* (2009). "Source Evaluation, Comprehension, and Learning in Internet Science Inquiry Tasks. *American Educational Research Journal*. [Online] 46,(4), 1060–1106.. Tersedia: <http://aerj.aera.net>. [26 September 2010].
- Wilkins, H.J. (2011). Textbook approval systems and the Program for International Assessment (PISA) results: A preliminary analysis. *IARTEM e-Journal*. 4, (2), 63-74.
- Wong, S.L., *et al.* (2008). "Turning Crisis into Opportunity: Enhancing student-teachers' understanding of nature of science and scientific inquiry through a case study of the scientific research in severe acute respiratory syndrome". *International Journal of Science Education*. 30, (11), 1417–1439.
- Wright, J.M. (2008). "The Comparative Effects of Constructivist Versus Traditional Teaching Methods on the Environmental Literacy Postsecondary Nonscience Majors". *Buletin of Science, technology & Society*. 25, 4, 324-337.
- Wu, Y-T .dan Tsai, C-C. (2005) Effects of constructivist oriented instruction on elementary school students' cognitive structures. *Journal of Biological Education*, 39(3).113-118.
- Yore, L. *et al.* (2004). "Why do future scientists need to study the language arts" dalam *Crossing borders in literacy and science instruction: Perspectives on theory into practice*. Newark DE: International Reading Association.
- Yuenyong, C. dan Narjaikaew, P. (2009). "Scientific Literacy and Thailand Science Education". *Interntaional Journal of Environment & Science Education*. 4, (3), 335-349.
- Zee, E.H. (2000). *Ways of Fostering Teachers' Inquiries into Science Learning and Teaching*. dalam *Inquiring into Inquiry Learning and Teaching in Science* (J. Minstrell dan E. H. van Zee. Eds). Washington D.C.: American Association for the Advance of Science.

Zohar, A. (2000). “Inquiry Learning as Higher Order Thinking: Overcoming Cognitive Obstacles”, dalam *Inquiring into Inquiry Learning and Teaching in Science*. Washington: American Association for the Advance of Science.

