DAFTAR PUSTAKA

Abd. El Khalick, F., R.L Bell, and Akerson, V. (2009). The Influence of Metacognitive Training on Preservice Elementary Teachers' Conceptions of Nature of Science. *International Journal of Science Education*. 31(16), 2161–2184

Abd.El Khalick, F., R.L Bell, and Ledermen, N.G. (1998). The Nature of Science and Instructional Practice: Making the Unnatural. *Science Education*. 82:417-437.

Akerson, V., Nargund, J.V., Weiland, I., Pongsanon, K., and Avsar, B. (2013). What Third-Grade Students of Differing Ability Levels Learn about Nature of Science after a Year of Instruction. *International Journal of Science Education*. 34(15), 2289-2315.

Akerson, V.L., Abd-El-Khalick, F.S., & Lederman, N.G. (2000). Influence of a reflective activity based approach on elementary teachers' conceptions of the nature of science. *Journal of Research in Science Teaching*. 37, 295–317.

Akerson, V.L., and Donnelly, L, A. (2010). Teaching Nature of Science to K-2 Students: What Understanding can They Attain?. *International Journal of Science Education*. 32, 97-124.

Akerson, V.L., Hanson, D.L., Cullen, T.A. (2007). The Influence of Guided Inquiry and Explicit Instruction on K-6 Teachers' Views of Nature of Science. *Journal Science Teacher Education*. 18, 751-772.

Ali & Asrori. (2012). *Psikologi Remaja Perkembangan Peserta Didik*. Jakarta: Bumi Aksara

Almeida, L. S., Prieto, L. P., Ferrando, M., Oliveira, E., Ferrándiz, C. (2008). Torrance Test of Creativity Thinking: The Question of Its Construct Validity. *Science Direct.* 53-58.

Anam, Khoirul. (2015). *Pembelajaran Berbasis Inkuiri: Metode dan Aplikasi*. Yogyakarta: Penerbit Pustaka Pelajar

Arikunto, Suharisimi. (2015). *Dasar-Dasar Evaluasi Pendidikan Edisi 2*. Jakarta: Bumi Aksara

Arvyati.,Muchtar Ibrahim., Andry Irawan. (2015). Effectivity Peer Tutoring Learning to Increase Mathematical Creative Thinking Ability of Class

XI IPA SMAN 3 KENDARI. *International Journal of Education and Research*. 3(1), 613-628.

Cakici, Yilmaz., and Bayir, Eylem. (2012). Developing Children's Views of the Nature of Science Through Role Play. *International Journal of Science Education*. 34(7), 1075-1091.

Capps, D.K, Crawford, B.A. (2013). Inquiry-Based Instruction and Teaching About Nature of Science : Are They Happening?. *Journal Science Teacher Education.* 24, 497-526.

Demirbas, Murat., and Balci Funda. (2012). The Impact of the Explicit-Reflective Approach in Teaching the Nature of Science Upon Turkish Students Perception of Science. *Interrnational Journal of Asian Social Science*. 2(8), 1255-1260

Djupanda. 2015. Analisis Keterampilan Berpikir Kreatif Siswa SMA dalam Memecahkan Masalah Fisika. *Jurnal pendidikan fisika Tadulako* (JPFT), 3(2) ISSN 23383240

Driver, R., Leach, J., Millar, R., & Scott, P. 1996. Y*oung Peoples's Images of Science*. Buckingham, UK: Open University Press.

Eager, S.K, & Yager, Robert. (1998). *The IOWA Assessment Handbook*. Van Allen Hall IOWA city: National Science Foundation

Eastwood, J.L., Sadler, T.D., Zeidler, D.L., Lewis, A., Amiri, L., Applebaum, S. (2012). Contextualing Nature of Science Instruction in Socioscientific Issues. *International Journal of Science Education*. 34(15), 2289-2315.

Emine, CIL. (2014). Teaching Nature of Science to pre-service early chilhood through an explicit-reflective approach. *Asia-Pacific Forum on Science Learning and Teaching Journal*. 15(1).

Filsaime, D.K. (2008). *Menguak Rahasia Berpikir Kritis dan Kreatif (terjemahan)*. Jakarta: Prestasi Pustakaraya .

Firman, H. (2007). *Laporan Analisis Literasi Sains Berdasarkan Hasil PISA Nasional Tahun 2006*. Jakarta: Balitbang Depdiknas.

Fraenkel, J.R. & Wallen, N.E. (2009). *How to Design and Evaluate Research in Education.* New York: McGraw-Hill.

Fransisca, S.T. (2012). *Handout Perkuliahan Penelitian Pendidikan Program Magister (S2)*. Bandung

Hadzigeorgiou, Y., Fokialis P., Mary Kabouropoulou, M.(2012). Thinking about Creativity in Science Education. *Scientific Research*. 3(5). 603-611.

Hake, R. R. (1999). *Analyzing Change/Gain Scores.* AREA-D-American Educational Researc Association's Devision D, Measurement and Research Methodology. [Online]. Tersedia: http:/lists.asu.Edu/cgibin/wa?A2=ind9903&L=aera-d&p=R6855. [16 Mei 2016]

Hardianty, Noer. (2015). Nature of science : Bagian Penting dari Literasi Sains. *Prosiding Simposium Nasional Inovasi dan Pembelajaran Sains*. 441-444

Hayat, B & Yusuf, S. (2006). *Benchmark Internasional Mutu Pendidikan.* Jakarta: Bumi Aksara.

Hyeran, Park., Nielsen., Wendy., Woodruff, Earl. (2013). Students' Conceptions of the Nature of Science: Perspectives from Canadian and Korean Middle School Students. *Science&Educatian Springer*. 23(15), 1169-1196.

Ibrahim, M. (2012). *Konsep Miskonsepsi dan Cara Pembelajarannya*, Surabaya: Unesa. University Press

Igwebuike, T. B., & Oriaifo, S. O. (2014). Effect of a constructivist instructional strategy on affective outcomes by Integrated science students. *International Review of Contemporary Learning Research*. 10(1), 1–10.

Kemendikbud. (2013). *Dokumen Kurikulum 2013* dan *Permendikbud No.64 Tentang Standar Isi Pendidikan Dasar dan Menengah.* Jakarta: Kementrian Pendidikan dan Kebudayaan

Khisfhe, Rola and Abd. El Khalick, F. (2002). Influence of Explicit Reflective versus Implicit Inquiry-Oriented Instruction on Sixth Graders' Views of Nature of Science. *Journal of Research in Science Teaching*. 39(7), 551-578.

Khishfe, Rola. (2013). Transfer of Nature Of Science Understanding into Similar Context: Promises and Possibilities of an Explicit Reflective Approach. *International Journal of Science Education.* 35(17), 2928-2953.

Kind, P., & Kind, V. (2007). Creativity in science education: Perspectives and challenges for developing school science. *Studies in Science Education*, 43, 1-37.

Komarudin, D. (2011). Hubungan antara kreativitas dengan prestasi belajar siswa. Psympathic.*Jurnal Ilmiah Psikologi*, 4 (1): 278-287.

Kucuk, Mehmet. (2008). Improving Preservice Elementary Teachers' Views of the Nature of Science Using Explicit Reflective Teaching in a Science, Technology and Society Course. *Australian Journal of Teacher Education*, 33(2), 16-44

Lederman, N. G. (1992). Students' and teachers' conceptions about the nature of science: A review of the research. *Journal of Research in Science Teaching*. 29, 331-359.

Lederman, N. G. (2006). Research on Nature of Science: Reflections on the Past, Anticipations of the Future. *Asia-Pacific Forum on Science Learning and Teaching* 7(1), p.2.

Lederman, N.G. (2006). *Syntax of Nature od Science Within Inquiry and Scince Instruction.* Springer. Chapter 14. Netherland

Lederman, N.G., Abd-El Khalick, F., Bell, R.L., & Schwartz, R.S. (2002). Views of Nature of Science Questionnaire: Toward Valid and Meaningful Assessment of Learners' Conceptions of Nature of Science. *Journal of Research in Science Teaching*. 39, 497-521.

Majid, Abdul. (2013). *Strategi Pembelajaran*. Bandung: Remaja Rosdakarya

Malaka, S. (2011). 99 Tips Cerdas dan Efektif Berpikir Positif dan Berjiwa Besar. Yogyakarta: Araska

McComas, W.F. (1998). The Principal Elements of The Nature of Science: Dispelling The Myths. Los Angeles: University of Southern California.

McDonald C.V. (2010). The influence of explicit Nature of Science and Argumentation Instruction on Preservice Primary Teachers' Views of Nature of Science. *Journal of Research in Science Teaching*. 47(9), 1137-1164.

McGregor, D. (2007). *Developing Thinking; Developing Learning A Guide to Thinking Skill in Education*. Enggland: Mc Graw Hill.

Meador, K.S. (1997). *Creative Thinking and Problem Solving for Young Learners Gifted Treasury Series.* USA: Teacher Ideas Press

Meichtry,Y, J. (1993). The Impact of Science Curricula on Student Views About the Nature of Science. *Journal of Research in Science Teaching*. 30(5), 429-443

Minium, E.W., King, B.M., Bear , G. (1993). Statistical Reasoning in Psychology and Education. New York : Jhon Wiley and Sons , Inc

Munandar, Utami. (1999). *Kreativitas dan Keberbakatan Strategi Mewujudkan Potensi Kreatif dan Bakat*. Jakarta: Gramedia Pustaka Utama

National Research Council. (1996). *Scientific Literacy.* Online. Tersedia: hhttp://www.agpa.uakron.edu/p16/prof-dev-scilit.php 28 mei 2015

Nuangchalerm, Prasart & B. Kwuanthong. (2010). Teaching "Global Warming" through Socioscientific Issues-based Instruction. *Journal of Asian Social Science.* 6 (8), 42-47.

Nuangchalerm, Prasart. (2010). Engaging Students to Perceive Nature of Science Through Socioscientific Issues-Based Instruction. E*uropean Journal of Social Sciences.* 13 (1): 34-37.

Nuangchalerm, Prasart. (2013). Engaging Nature of Science to Preservice Teachers Through Inquiry Based Classroom. *Journal of Applied Science and Agriculture*, 8(3): 200-203.

Papadouris, N., & Constantinou, C.P,. (2013). An Explooratory Investigation of 12-Year-Old Students' Ability to Appreciate Certain Aspects of the Nature of Science Through a Specially Designed Approach in the Context of Energy. *International Journal of Science Education*. 36(5), 755-782

Rustaman, N.Y. (2012). *Apendiks Literasi Sains [power point]*. Universitas Pendidikan Indonesia, Bandung: tidak diterbitkan

Rutherford, F.J & Ahlgren, A. (1990). Science for All Americans. New York: Oxford

Sadler, T.D (2014). Socio-scientific Issues Based Teaching and Learning: Hydrofracturing as an Illustrative Context of a Framework for Implementation and Research. *Revista Brasileira de Pesquisa em Educação em Ciência.* 14(2), 331-342.

Sadler, T.D. (2009). Situated Learning in Science Education:Socio-scientific Issues as Context for Practice. *Studies in Science Education*. 45, 1- 42.

Sadler, T.D. (2011). Socioscientific Issues-Based Education: What We Know about Science Education in the Context of SSI. Teaching, learning and research *Springer*. 277–306.

Scharmann, L.C., Smith, M.U., James, M.C., Jensen. M. (2005). Explicit Reflective Nature of Science Instruction: Evaluation, Intelligent Design, and Umbrellaology. *Springer*. 16, 27-41.

Schwartz, R., Ledderman, N.G., Crawford, B.A. (2003). Developig Views Nature of Science in an Authentic Context: AN Explicit Approach to Bridging

the Gap Between Nature of Science and Scientific Inquiry. *Science Teacher Education.* 610- 645.

Schwartz, R.S., Lederman, N.G., & Crawford, B.A. (2004). "Developing Views of Nature of Science in an Authentic Context: An Explicit Approach to Bridging the Gap Between Nature of Science and Scientific Inquiry". *Journal of Science Teacher Education*. 88, (4), 610-645.

Setiono, K (2009). *Psikologi Perkembangan Kajian Teori Piaget, Selman, Kohlberg dan Terapannya dalam Riset*. Padjajaran: Widya Pajajaran

Steffen, B. (2014). Decision Making Competence in Biology Education: Implementation into German Curricula in Relation to International Approaches. *Science & Technology Education*. 10(4), 343-355.

Sterling, D., et al. (2010). Virginia Mathematics and Science Coalition Scientific Inquiry and the Nature of Science Task Force Report. [Online]. Tersedia : http://vamsc.org/.../VMSC_Inquiry_and_NOS White _Paper_ 5 _11 10.doc. [20 Mei 2016].

Sudarma, Momon. (2013). *Mengembangkan Keterampilan Berpikir Kreatif.* Jakarta: Rajawali Press

Sudiarta P. (2007). Pengembangan Pembelajaran Berpendekatan Teamtik Berorientasi Pemecahan Masalah Matematika Terbuka untuk Mengembangkan Kompotensi Berpikir Divergen, Kritis, dan Kreatif. *Jurnal Pendidikan dan Pengajaran IKIP Negeri Singaraja*, 1- 23.

Sugiyono. (2015). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R&D*. Bandung: Alfabeta

Supardi (2013). *Aplikasi Statistika Dalam Penelitian edisi Revisi Konsep Statistika Yang Lebih Komprhensif*. Jakarta: Change Publication Design

Supardi. (2012). Peran Berpikir Kreatif Dalam Proses pembelajaran Matematika. *Jurnal Formatif*. 2(3)248-262

Surapranata, S. (2006). *Analisis, Validitas, Realibilitas, dan Interpretasi Hasil Tes Implementasi Kurikulum 2004*. Bandung: PT Remaja Rosda Karya

Suratno, T. (2008). Konstruktivisme, konsepsi alternatif dan perubahan konseptual dalam pendidikan IPA. *Jurnal Pendidikan Dasar* No. 10.

Tanner, H., & Jones, S.(2000). *Becoming a successful teacher of mathematics*. London:Routledge.

Tawil & Liliasari. (2013). *Berpikir Kompleks dan Implementasinya dalam Pembelajaran IPA*. Makassar: Badan Penerbit UNM

Thinking Skills and Assesment for learning Development Programme. (2009). *Why Develop Thinking Skills and Assessment for Learning in the Classroom?*. Bristol:Clifton College

Tim Abdi Guru. (2013). IPA Terpadu untuk SMP/MTS kelas VII Kurikulum 2013. Jakarta: Erlangga

Toharuddin *et al*. (2011). Membangun Literasi Sains Peserta Didik. Bandung: Humaniora

Treffinger, D.J., Isaksen, S.G., Stead-Dorval, K.B. (2006). *Creative Problem Solving: An Introduction*. 4th *ed*. Waco: Prufrock Press Inc.

Windyariani, S. (2011). *Penggunaan Bahan Ajar Berbasis Multimedia Interaktif Pada Tema Perubahan Iklim Untuk Meningkatkan Literasi Sains Siswa SMP*. Tesis SPS UPI: tidak diterbitkan.

Wiersma, W &Jurs, S.G. (1990). *Second Edition Educational Measurement and Testing*. Massachusets: A Division of Simon & Schuster, Inc.

Wongsri, P & P. Nuangchalerm. (2010). Learning Outcomes between Socioscientific Issues-based Learning and Conventional Learning Activities. *Journal of Social Science*. Vol 6 (2): 240-243

Yacoubian, A.H., and Boujaoude, S,. (2010). The Effect of Reclective Discussion Following Inquiry Based Laboratory Activities on Students' Views of Nature of Science Teaching. *Journal of Research in Science Teaching* 47(10), 1229-1252.

Yoon, S.Y., Suh, J.K., Park, Soonhye. (2015). Korean Student' Perception of Scientific Practices ad Understanding of Nature of Science. *International Journal of Science Education*. 36(16), 2666-2693.

Zeidler, D. L., Sadler, T. D., Simmons, M. L., & Howes, E. V. (2005). Beyond STS: A research-based framework for socioscientific issues education. *Science Education*, 89(3), 357-377.

Zeidler, D.L., Nichols, B.H. (2009) Socioscientific Issues Theory and Practice. *Journal of Elementary Science Education*. 21(2): 49-59.