

## DAFTAR PUSTAKA

- Abd-El-Khalick, F & Lederman, N. (2000). "The Influence of History of Science on Students's View of Nature of Science". *Journal of Research in Science Teaching*. Vol 37 (10), hlm. 1057-1095.
- Abd-El-Khalick, F., & BouJaoude, S. (1997). *An exploratory study of the disciplinary knowledge of science teachers*. [Online]. Tersedia: <http://www.ed.psu.edu/ci/Journals/97pap3.htm> [July 5, 2015]
- Acar, O., Turkmen, L. & Roychoudhury, A. (2010). "Student difficulties in socio-scientific argumentation and decision-making research findings: crossing the borders of two research lines". *International Journal of Science Education*. Vol 32 (1), hlm. 1191-1206.
- Adisendjaja, Y. H, Rustaman, N., Redjeki, S., & Satori D. (2015). Pemahaman mahasiswa pendidikan biologi tentang hakikat sains. *Prosiding Seminat Alfa IV 2015* (hlm. 60-67). Yogyakarta: Jurusan Pendidikan IPA FMIPA UNY.
- Aikenhead, G. S. (1994). What is STS science teaching? In J. *STS education: International perspectives on reform* New York, NY: Teachers College Press. (hlm. 47–59).
- American Association for the Advancement of Science. (1989). *Science for All Americans: A project 2061 report*. New York: Oxford University Press.
- Arikunto, S. (2011). *Dasar-Dasar Evaluasi Pendidikan*. Jakarta: Bumi Aksara.
- Bell, R. L. (2009). *Teaching the nature of science: Three Critical Questions* [Online]. Tersedia: [http://www.ngsp.com/Teaching the nature of science](http://www.ngsp.com/Teaching%20the%20nature%20of%20science) [27 Februari 2014]
- Bell, R. L., & Lederman, N. G. (2003). Understandings of the nature of science and decision-making on science and technology issues. *Science Education*. Vol 87 (3), hlm. 352–377.
- Brock, D.L, (1991). *Review of Artificial Muscle Based on Contractile Polymers*. [online] available at: <http://www.ai.mit.edu/projects/muscle/papers/memo1330/memo1330.html> [26 Oktober 2014]
- Cassidy, E., & Kurfman, D. (1977). Decision making as purpose and process. In D. Kurfman (Ed.), *Developing decision making skills*. Arlington, VA: National Council for the Social Studies. (hlm. 1–26).

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**PENGARUH PEMBELAJARAN BERBASIS HAKIKAT SAINS TERHADAP PENGAMBILAN KEPUTUSAN DAN PANDANGAN SISWA TENTANG HAKIKAT SAINS MELALUI ISU SOSIOSAINTEKNIK**

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- Cooper, C., Reeder, B., Grey, M., Silaghi-Dumitrescu, R., Svistunenko, D., Bulow, L., & Wilson, M. (2008). Tyrosine Residues as Redox Cofactors in Human Hemoglobin Implications For Engineering Nontoxic Blood Substitutes. *The Journal Of Biological Chemistry*. Vol. 283 (45), hlm. 30780–30787.
- Eastwood, J., Sadler, T., Zeidler, D., Amiri, L., Applebaum, S., (2012). “Contextualizing nature of Science Instruction in Sosioscientific Issues”. *International Journal of Science Education*. Vol 34 (15), hlm. 2289-2315.
- Fensham, P. (2008). *Science education policy-making*. Paris: UNESCO.
- Fenny, R., & Rustaman, N. (2013). Profil Sociocultural Perspective dalam Berargumentasi Mahasiswa Calon Guru Biologi pada Perkuliahan Fisiologi Manusia. Bandung: Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam Pendidikan Biologi UPI.
- Heath, P. A., White, A. L., Berlin, D. F., & Park, J. C. (1987). Decision making: Influence of features and presentation mode upon generation of alternatives. *Journal of Research in Science Teaching*. Vol. 24 (9), hlm. 821–833.
- Holbrook, J. & Rannikmae, M. (2009). “The Meaning of Scientific Literacy”. *International Journal of Science Environmental & Science Education*. Vol 4 (3), hlm. 275-288.
- Hanines, C.S., Lima, M.D., Na Li, Spinks, G.M., Foroughi J., Madden J.D., Kim S.H., Fang, S., Andrade, M.D., Göktepe, F., Göktepe, Ö., Mirvakili S.M., Naficy, S., Lepró, X., Oh Jiyoun, Mikhail E.K., Kim, S.J, Xu Xiuru, Swedlove, B.J., Wallace G.G., Baughman R.H. (2014). Artificial Muscles from Fishing Line and Sewing Thread. *Science, American Association for the Advancement of Science*. DOI: 10.1126/science.1246906.
- Khishfe, R., & Abd-El-Khalick, F. (2002). The influence of explicit and reflective versus implicit inquiry-oriented instruction on sixth graders’ views of nature of science. *Journal of Research in Science Teaching*. Vol 39 (7), hlm. 551–578.
- Khishfe, R., & Lederman, N., (2006). “Teaching Nature of Science within a Controversial Topic: Integrated versus Nonintegrated”. *Journal of Research in Science Teaching*. Vol. 43 (4), hlm. 395-418.
- Khishfe, R. (2012). “Nature of science and decision-making”. *International Journal of Science Education*. Vol 34 (1), hlm. 67-100.

- Klosterman, M. L., & Sadler, T. D. (2010). "Multilevel assesment of scientific content knowledge gains associated with sosioscientific issues-based instruction". *International Journal of Science Education*. Vol 32 (8), hlm. 1017-1043.
- Lederman, N.G. (1992). "Students' and teachers' conceptions of the nature of science: A review of the research". *Journal of Research in Science Teaching*. Vol 29, hlm. 331–359.
- Lederman, N., Abd-El-Khalik, F., Bell, R., Schwartz, R. (2002). "Views of Nature of Science Questionnaire: Toward Valid and Meaningful Assesment of Learners' Conceptions of Nature of Science". *International Journal of Science Education*. Vol 39 (6), hlm. 497-521.
- Lederman, N.G., and J.S. Lederman. (2004). "Revising instruction to teach nature of science". *The Science Teacher*. Vol. 71 (9), hlm. 36-39.
- Maggs S. (2014). *We Can Now Make Artificial Muscle Out of Fishing Line That's 100 Times Stronger Than Actual Muscle*. [online] available at: <http://www.themarysue.com/artificial-muscle-fishing-line/> [26 Oktober 2014]
- McComas, W. F. (1998). The principal elements of the nature of science: dispelling the myths. *The Nature of Science in Science Education*, hlm. 53-70.
- McDaniels, T. L., Gregory, R. S., & Fields, D. (1999). Democratizing risk management: Successful public involvement in local water management decisions. *Risk Analysis*. Vol 19, hlm 491–504.
- Chang, Ming-Kun. (2014). Tracking Control of a Leg Rehabilitation Machine Driven by Pneumatic Artificial Muscles Using Composite Fuzzy Theory. *The Scientific World Journal*. DOI: 10.1155/2014/464276
- Nuangchalerm, P. (2010). "Enggaging Student to Preceive Nature of Sciience Through Sosioscientific Issues-Based Instruction". *Europen Journal of Social Science*. Vol 13 (1), hlm. 34-37.
- Sadler, T., Chambers W., Zeidler, D. (2004). "Student Conceptualization of Nature of Science in Response to a Sosioscientific issue". *International Journal of Science Education*. Vol 26 (4), hlm. 387-409.
- Sarkar, S. (2008). Artificial blood. *Indian J Crit Care Med*. Vol 12 (3), hlm. 140-144

- Schwartz, R.S., & Lederman, N.G. (2002). "It's the nature of the beast": The influence of knowledge and intentions on learning and teaching nature of science. *Journal of Research in Science Teaching*. Vol. 39 (3), hlm. 205-236.
- Schwartz, R., Lederman, N., & Crawford, B. (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". *Science Educator*. Vol 88, hlm. 610-645.
- Service, R.F. (2014). *Spinning Yarn Into Muscles*. [online] available at: <http://news.sciencemag.org/chemistry/2014/02/spinning-yarn-muscles> [26 Oktober 2014]
- Squires, J. (2002). "Artificial Blood". *American Red Cross Biomedical Services*. Vol. 295.
- Sterling, D. (2010). Scientific Inquiry and the Nature of Science Task Force Report. *Virginia Mathematics and Science Coalition* [Online]. Tersedia: <http://www.vamsc.org/> [4 Juni 2015]
- Sudjana, N. (2009). *Penilaian Hasil Proses Belajar Mengajar*. Remaja Rosdakarya: Bandung
- Szondy, D. (2010). *Artificial Muscles Could Allow Robots to Lift 80 Times Their Own Weight*. [online] available at: <http://www.gizmag.com/artificial-muscles-robots-nus/28923/> [26 Oktober 2014]
- Thye, T., Kwen, B.H. (2004). "Assessing the Nature of Science Views of Singaporean Pre-Service Teachers". *Australian Journal of teacher Education*. Vol 29 (2), hlm. 1-10.
- Walker, J. (2004). *ATOM: a short history of the knowledge of the atom*. [online] available at: <http://www.nobeliefs.com/atom.htm> [6 Juni 2015]
- Tanpa nama. (2010). *Artificial Blood*. [online]. Available at: <http://www.rsc.org/chemistryworld/Issues/2010/October/ArtificialBlood.asp> [4 Oktober 2014]
- Tanpa nama. (2010). *Better, Stronger, Faster*. [online] available at: <http://www.rsc.org/chemistryworld/News/2010/May/05051002.asp> [26 Oktober 2014]