

## DAFTAR PUSTAKA

- Anderson & Krathwohl. (2001). *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. New York: Addison Wesley Longman Inc.
- Arifin, M. (2003). *Strategi Belajar Mengajar*. Bandung: Jurusan Pendidikan Kimia FPMIPA UPI.
- Arikunto, S. (2010). *Prosedur Penelitian Suatu Pendekatan Praktek*. Jakarta: PT. Rineka Cipta
- Bao, L., Cai, T., Koenig, K., Fang, K., *et al.* (2009). Learning and Scientific Reasoning. *Science*, 323.
- Baroka. (2012). *Peningkatan Pemahaman Kebebasan Berorganisasi Mata Pelajaran PKn Melalui Model Role Playing pada Siswa kelas V SDN Keden 3 Kalijambe Sragen Tahun Pelajaran 2012/2013*. vol 2. Diakses dari <http://fkip.uns.ac.id>.
- Bekiroglu, F. O. & Eskin, H. (2012). Examination of the Relationship Between Engagement in Scientific Argumentation and Conceptual Knowledge. *International Journal of Science and Mathematics Education*, 10, hlm. 1415-1443.
- Benin, A., Wisler-Scher, DJ., Colson, E., Shapiro, E.D., & Holmboe, E.S. (2006). Qualitative Analysis of Mother's Decision Making about Vaccines for Infants: The Importance of Trust. *Pediatrics*, 117(5), hlm. 1532-1541.
- Blomberg, B.B & Frasca, D. (2011). Quantity, not quality, of antibody response decrease in the elderly. *The Journal of Clinical Investigation*, 121(8).
- Bollmann, A. (2015). *How Vaccines Work*. [Online]. Diakses dari <http://www.historyofvaccines.org/content/how-vaccines-work>
- Chen, C. T. & She, H.C. (2015). The Effectiveness of Scientific Inquiry with/without Integration of Scientific Reasoning. *International Journal of Science and Mathematics Education*, 13(1).
- Dahar, R.W. (2006). *Teori-Teori Belajar dan Pembelajaran*. Bandung : Erlangga.
- Dawson, V. M., & Venville, G.J. (2009). High-School Students' Informal Reasoning and Argumentation about Biotechnology: An indicator of

scientific literacy?. *International Journal of Science Education*, 3(11), hlm. 1421-1445.

- Depdiknas. (2003). *Pedoman Khusus Pengembangan Sistem Penilaian Berbasis Kompetensi SMP*. Jakarta: Depdiknas.
- Dewi, S. (2006). Pemahaman Konsep Volume Bola dengan Model Pembelajaran Konstruktivisme dan Kontektual pada Siswa Kelas III SMP. *Jurnal Pendidikan Inovatif*, 1.
- Dian. (2011). *1,7 Juta Kematian Pada Anak Diakibatkan Rendahnya Kesadaran Imunisasi*. [Online]. Diakses dari <http://infopublik.id/read/8461/17-juta-kematian-pada-anak-diakibatkan-rendahnya-kesadaran-imunisasi.html>
- Duffin, J.M. & Simpson, A.P. (2000). A Search for understanding. *Journal of Mathematical Behavior*. 18(4): hlm. 415-427.
- Ekanara, B. (2013). *Keterampilan Argumentasi Siswa Sekolah Menengah Atas* (Tesis). Sekolah Pascasarjana, Universitas Pendidikan Indonesia, Bandung.
- Evagororu, M., Aleixandre, M.P.J., & Osborne, J. (2012). ‘Should We Kill the Grey Squirrels?’ A Study Exploring Students’ Justifications and Decision-Making. *International Journal of Science Education*, 34(3), hlm. 401-428.
- Goel, V., & Dolan, R.J. (2004). Differential involvement of left prefrontal cortex in inductive and deductive reasoning. *Cognition*, 93(3).
- Goodwin, K., Viboud, C., & Simonsen, C. (2005). Antibody response to influenza vaccination in the elderly : a quantitative review. *Vaccine*, 24, hlm. 1159-1169.
- Gowda, C., Schaffer, S.E., Dombkowski, K.J., & Dempsey, A.F. (2012). Understanding Attitudes Toward Adolescent Vaccination and The Decision-Making Dynamic Among Adolescent, Parents, and Providers. *BioMed Central Public Health*, 12, hlm. 1-10
- Guyton, A.C. (1974). *Function of the Human Body*. USA: Saunders.
- Hakyolu, H. & Bekiroglu, F. O. (2011). Assessment of Students’ Science Knowledge Levels and Their Involvement with Argumentation. *International Journal for Cross-Disciplinary Subjects in Education*, 2(1).

- Halverson, K.L., Siegel, M.A., & Freyermuth, S.K. (2009). Lenses for Framing Decisions: Undergraduates' decision making about stem cell research. *International Journal of Science Education*, 31(9), hlm. 1249-1268.
- Han, J. (2013). *Scientific Reasoning: Research, Development, and Assessment*. Dissertation. The Ohio State University.
- Herawati, D. (2015). *Penalaran Ilmiah (Scientific Reasoning) Siswa Sekolah Berorientasi Lingkungan dan Sekolah Multinasional* (Tesis). Sekolah Pascasarjana, Universitas Pendidikan Indonesia.
- Inch, E.S., Warnick, B., Endres, D. (2006). *Critical Thinking and Communication : The Use of Reason In argument*. US of America: Pearson Education, Inc.
- Judarwanto, W. (2014). *Kontroversi dan Permasalahan Imunisasi Dalam Masyarakat*. [Online]. Diakses dari <https://mediaimunisasi.com/2014/05/10/kontroversi-dan-permasalahan-imunisasi-dalam-masyarakat/>
- Kaya, E., Erduran, S., & Cetin, P.S. (2010). High School Students' Perception of Argumentation. *Procedial Social and Behavioral Science*, 2.
- Khishfe, R. (2012). Nature of Science and Decision Making. *International Journal of Science Education*, 34(1), hlm. 67-100.
- Kolarova, T., Hadjiali, I., & Denev. I. (2013). High School Students' Reasoning in Making Decisions about Socio-Ethical Issues of Genetic Engineering: Case of Gene Therapy. *Biotechnology & Biotechnological Equipment*, 27(2), hlm. 3737-3747.
- Konstantidinou, A. & Macagno, F. (2013). What Students' Argument Can Tell Us: Using Argumentation Schemes in Science Education. *Argumenttaion*, 27(3), hlm. 225-243.
- Kuhn, D. & Udell, W. (2003). The Development of Argument Skills. *Child Development*, 74(5), hlm. 1245-1260.
- Kuwado, F.J. (2016). *Vaksin Palsu Diproduksi sejak 2003 dan Ditemukan di Tiga Provinsi*. [Online]. Diakses dari <http://nasional.kompas.com/read/2016/06/24/07465481/vaksin.palsu.diproduksi.sejak.2003.dan.ditemukan.di.tiga.provinsi>
- Lambach, P. (2010). *World Health Organization : Vaccine Safety Basics e-learning course*. [Online]. Diakses dari <http://vaccine-safety-training.org/vaccine-preventable-diseases.html>

- Lawson, A. (2003). The Nature and Development of Hypothetico-predictive Argumentation with Implications for Science Teaching. *International Journal of Science Education*, 25(11), hlm.1387–1408.
- Loving, S. (2003). *Vaccine Ingredients*. [Online]. Diakses dari <http://vk.ovg.ox.ac.uk/vaccine-ingredients>
- McDonald, C.V. (2014). Preservice Primary Teachers' Written Arguments in a Socioscientific Argumentation Task. *Electronic Journal of Science Education*, 18(7).
- Mercier, H., & Heintz, C. (2014). Scientist's Argumentative Reasoning. *Topoi an International Review of Philosophy*, 33(2). hlm. 513-524.
- Moordiningsih & Faturochman. (2006). "Proses Pengambilan Keputusan Dokter". *Jurnal Psikologi*, 33(2), hlm. 1-15.
- Nasution. (2006). *Berbagai Pendekatan Dalam Proses Belajar Mengajar*. Jakarta: Bumi Aksara
- National Institute of Allergy and Infectious Diseases. (2013). *Understanding How Vaccines Work*.
- Osborne, J., Erduran, S., & Simon, S. (2004). Enhancing the quality of argument in school science. *Journal of Research in Science Teaching*, 41(10), hlm. 994-1020.
- Peraturan Menteri Kesehatan Republik Indonesia Nomor 42 Tahun 2013 Tentang Penyelenggaraan Imunisasi.
- Piraksa, C., Srisaswandi, N., & Koul, R. (2014). Effect of Gender on Students' Reasoning Ability : A Case Study in Thailand. *Procedia-Social and Behavioral Sciences*, 116, hlm. 486-491.
- Plotkin, S.A. (2013). *Vaccine Fact Book 2013*. Washington: Pharmaceutical Research and Manufacturers of America.
- Poerwadarminta, W.J.S. (1976). *Kamus Umum Bahasa Indonesia*. Jakarta: PT. Balai Pustaka
- Rosalynn. (2015). *The immune system and vaccination*. [Online]. Diakses dari <http://www.immune.org.nz/immune-system-and-vaccination>

- Roshayanti, F. (2012). Pengembangan Model Assesmen argumentatif untuk Mengukur Keterampilan Argumentasi Mahasiswa pada Konsep Fisiologi Manusia (Disertasi). Sekolah Pascasarjana, Universitas Pendidikan Indonesia.
- Sadler, T. D. (2004). Informal reasoning regarding socioscientific issues: A critical review of research. *Journal of Research in Science Teaching*, 41(5), hlm. 513-536
- Sadler, T. D., & Zeidler, D. L. (2005). Patterns of informal reasoning in the context of socioscientific decision making. *Journal of Research in Science Teaching*, 42(1), hlm. 112-138.
- Sandy. (2015). *BIO FARMA- Ayo Mengenal Lebih Dekat Vaksinasi*. [Online]. Diakses dari <http://www.republika.co.id/berita/koran/kabar-jabar/15/01/19/nif6yv-bio-farma-ayo-mengenal-lebih-dekat-vaksinasi>
- Simon, K., Hollander, G.A., & McMichael, A. (2015). Evolution of the immune system in humans from infancy to old age. *Royal Society Publishing*.
- Soedjadi. (2000). *Kiat Pendidikan Matematika di Indonesia: Konstataasi Keadaan Masa Kini dan Harapan Masa Depan*. Jakarta: Dirjen Dikti Departemen Pendidikan Nasional.
- Sudijono, A. (2005). *Pengantar Evaluasi Pendidikan*. Jakarta : Paja Grafindo Persada.
- Sudaryono. (2012). *Dasar-Dasar Evaluasi Pembelajaran*. Yogyakarta : Penerbit Graha Ilmu.
- Suharnan. (2005). *Psikologi Kognitif*. Surabaya: Srikandi.
- Sujarwo, I. (2000). *Pembelajaran Matematika dalam Upaya Meningkatkan Hasil Belajar Siswa MAN* (Tesis). Sekolah Pascasarjana, Universitas Pendidikan Indonesia, Bandung.
- Tsui, C. & Treagust, D.F. (2010). Evaluating Secondary Students' Scientific Reasoning in Genetics Using a Two-Tier Diagnostic Instrument. *International Journal of Science Education*, 32 (8), hlm. 1073-1098.
- Tytler, R. & Peterson, S. (2003). Tracing Young Children's Scientific Reasoning. *Research in Science Education*, 33, hlm. 433-465.

- Umar, R. (2015). *Ikatan Dokter Anak: Mayoritas Warga Aceh Masih Anggap Imunisasi Haram*. [Online]. Diakses dari <http://regional.kompas.com/read/2015/05/03/14005001/Ikatan.Dokter.Anak.Mayoritas.Warga.Aceh.Masih.Anggap.Imunisasi.Haram>
- Varma, K. (2014). Supporting Scientific Experimentation and Reasoning in Young Elementary School Students. *Journal of Science Education and Technology*, 28, hlm. 381-397.
- Venville, G.J., & Dawson, V.M. (2010) The impact of a classroom intervention on grade 10 student's argumentation skills, informal reasoning, and conceptual understanding of science. *Journal of Research in Science Teaching*, 47(8), hlm. 952-977.
- Waldrif, B. (2012). Reasoning through representing in school science. *Teaching Science*, 58, hlm.14-18.
- Waldrif, B., Prain, V., & Sellings, P. (2013). Explaining Newton's laws of motion : using student reasoning through representations to develop conceptual understanding. *Instructional Science*,41, hlm. 165-189.
- Wang, H. & Ruhe, G. (2007). The Cognitive Process of Decision Making. *International Journal of Cognitive Informatics and Natural Intelligence*, 1(2), hlm. 73-85.
- Weiskopf, D., Weinberger, B., & Loebenstein, B.G. (2009). The aging of the immune system. *Transplant International*.
- Widodo, A., Waldrif, B., & Herawati, D. (t.t). Students' Argumentation in Science Lessons: A story of two research project.
- Wu, Y.T. & Tsai, C.C. (2011). The Effect of Different Online Searching Activities on High School Students' Cognitive Structures and Informal Reasoning Regarding a Socio-scientific Issue. *Research In Science Education*, 41, hlm. 771-785.
- Yang, F.Y. & Tsai, C.C. (2010). Reasoning about science-related uncertain issues and epistemological perspectives among children. *Instructional Science*, 38, hlm. 325-354.