

DAFTAR PUSTAKA

- Adadan, E. & Savascı, F. (2011). An analysis of 16–17-year-old students' understanding of solution chemistry concepts using a two-tier diagnostic instrument. *International Journal of Science Education*, 34 (4), hlm. 513-544.
- Adams, K. (2012). *Beginning chemistry teachers use of the triplet relationship during their first three years in the classroom*. (Disertasi). Arizona State University, Arizona.
- Afriyanti, I. (2013). *Reduksi miskONSEP siswa melalui pembelajaran remedial menggunakan strategi konflik kognitif pada materi kelarutan dan hasil kali kelarutan*. (Tesis). Universitas Pendidikan Indonesia, Bandung.
- Akinbobola, A. & Afolabi, F. (2010). Analysis of science process skills in West African senior secondary school certificate physics practical examinations in Nigeria. *American-Eurasian Journal of Scientific Research*, 5 (4), hlm. 234-240.
- Anderson, L. W., Krathwohl, D. R., Airasian, P. W., Cruikshank, K. A., Mayer, R. E., Pintrich, P. R. ... Wittrock, M. C. (2001). *A taxonomy for learning, teaching, and assessing: A revision of Bloom's educational objectives*. New York: Addison Wesley Longman Inc.
- Arikunto, S. (1996). *Prosedur penelitian: Suatu pendekatan praktik*. Jakarta: PT. Rineka Cipta.
- Basağa, H. (1994). The effect of the inquiry teaching method on biochemistry and science process skill achievements. *Biochemical Education*. 22(1), hlm. 29-32.
- Brady, L. (1985). *Models and methods of teaching*. Australia: Prentice-Hall.
- Brown, T. L., LeMay, H. E., Bursten, B. E., Murphy, C. J., & Woodward, P. (2012). *Chemistry: The central science*. Edisi keduabelas. Boston: Prentice Hall.
- Çalik, M & Ayas, A. (2005). An analogy activity for incorporating students' conceptions of types of solutions. *Asia-Pacific Forum on Science Learning and Teaching*, 6 (2), hlm. 1-13.

- Carin, A. A. (1997). *Teaching modern science*. Edisi Ketujuh. New Jersey: PrenticeHall.
- Chandrasegaran, A. L., Treagust, D. F. & Mocerino, M. (2009). Emphasizing multiple levels of representation to enhance students' understandings of the changes occurring during chemical reactions. *Journal of Chemical Education*, 26 (12), hlm. 1433-1436.
- Chang, R. & Overby, J. (2011). *General chemistry: The essential concepts*. Edisi keenam. New York: Mc-Graw Hill Companies.
- Çokadar, H. (2010). First year prospective teachers' perceptions of chemical solution types and solubility. *Asian Journal of Chemistry*, 22 (1), hlm. 137-147.
- Coll, R & Treagust, D. (2001). Learners' use of analogy and alternative conceptions for chemical bonding. *Australian Science Teachers Journal*, 48(1), hlm. 29-50.
- Danili, E. & Reid, N. (2006). Cognitive factors that can potentially affect pupils' test performance. *Chemistry Education Research and Practice*, 7(2), hlm. 64-83.
- Davidowitz, B., & Chittleborough, G. (2009). Linking the Macroscopic and Sub-microscopic Levels: Diagrams. Dalam Gilbert, J.K. & Treagust, D. F. (Penyunting). *Multiple representations in chemical education: models and modeling in science education* (hlm. 169-191). UK: Springer
- Dewi, S. (2008). *Keterampilan proses sains*. Bandung: Tinta Emas Publishing.
- Ebbing, D. D., & Gammon, S. D., (2009). *General chemistry*. New York: Houghton Mifflin Company.
- Esler, W. & Esler. M. (1993). *Teaching elementary science*. Edisi keenam. Belmont: Wadsworth Publishing Company.
- Fathurrohman, P. & Sutikno, S. (2009). *Strategi belajar mengajar*. Bandung: Refika Aditama.
- Firman, H. (2013). *Evaluasi pembelajaran kimia*. Bandung: Jurusan Pendidikan Kimia UPI.

- Gabel, D. (1993). Use of the particle nature of matter in developing conceptual understanding. *Symposium: Lecture and learning: Are they compatible?*, 70 (3), hlm. 193-194.
- Gilbert, J.K. & Treagust, D. F. (2009). *Multiple representations in chemical education: models and modeling in science education*. UK: Springer
- Gkitzia, V., Salta, K., Tzougraki, C. (2011). Development and application of suitable criteria for the evaluation of chemical representations in school textbooks. *Chemistry Education Research and Practice*, 12, hlm. 5-14.
- Guzel, B. Y. & Adadan, E. (2013). Use of multiple representations in developing preservice chemistry teachers' understanding of the structure of matter. *International Journal of Environmental & Science Education*, 8 (1), hlm. 109-130.
- Hamdi, A. S. & Bahruddin, E. (2014). *Metode penelitian kuantitatif aplikasi dalam pendidikan*. Yogyakarta: Deepublish.
- Hanson, D & Apple, D. (2004). *Process- Oriented guided inquiry learning-Assessment: Process- The missing element*. [Online]. Diakses dari http://www.pkal.org/documents/hanson-apple_process--the-missing-element.pdf.
- Hanson, D. (2006). *Instructor's guide to process-oriented guided-inquiry learning*. Stony Brook University-SUNY: Pacific Crest.
- Hanson, D. (2015, 8 Agustus). Exploration and concept formation stage in POGIL. [Posel mailing list]. Diakses dari <https://mail.google.com/mail/u/0/#imp/14f3fc00e48e4a1>
- Herawati, R.F., Mulyani, S., & Redjeki, T. (2013). Pembelajaran kimia berbasis multiple representasi ditinjau dari kemampuan awal terhadap prestasi belajar laju reaksi siswa SMA Negeri I karanganyar tahun pelajaran 2011/2012. *Jurnal Pendidikan Kimia (JPK)*, 2 (2), hlm. 38-43.
- Hinton, M. E., & Nakhleh, M. B. (1999). Students' microscopic, macroscopic, and symbolic representations of chemical reactions. *The Chemical Educator*, 4(4), 1–29.
- Jespersen, N. D., Brady, J. E., & Hyslop, A. (2012). *Chemistry: The molecular nature of matter*. Hoboken: Jhon Wiley and Sons, Inc.

- Jhonstone, A. (1993). The development of chemistry teaching: A changing response to changing demand. *Symposium on Revolution and Evolution in Chemical Education*, 70 (90), hlm. 701-705.
- Jhonstone, A. (2000). Teaching of chemistry - logical or psychological?. *Chemistry Education: Research And Practice in Europe*, 1(1), hlm. 9-15.
- Kamil, Y. (2014). *Pengaruh praktikum laju reaksi berbasis process oriented guided inquiry learning terhadap keterampilan proses sains dan penguasaan konsep siswa SMK*. (Tesis). Universitas Pendidikan Indonesia, Bandung.
- Kelly, R. M., Barrera, J. H., & Mohamed, S. C. (2010). An analysis of undergraduate general chemistry students' misconceptions of the submicroscopic level of precipitation reaction. *Journal of Chemical Education*. 87(1), hlm. 113-118.
- Kozma, R., Chin, E., Russell, J., & Marx, N. (2000). The roles of representations and tools in the chemistry laboratory and their implications for chemistry learning. *The Journal of The Learning Sciences*, 9(2), hlm. 105–143.
- Krause, A. dan Tasooji, A. (2007). *Diagnosing students' misconceptions on solubility and saturation for understanding of phase diagrams*. [Online]. Diakses dari http://icee.usm.edu/ICEE/conferences/asee2007/papers/413_DIAGNOSING_STUDENTS__MISCONCEPTIONS_ON_S.pdf
- Krause, S. & Sodeye, O. 2013. *The effect of a visually-based intervention on students' misconceptions related to solutions, solubility and saturation*. [Online]. Diakses dari
- Kratwohl, D. (2002). A revision of Bloom's taxonomy: An overview. *Theory into Practice*, 41(4), hlm 212-218.
- Madden, S.P, Jones, L.L, & Rahm, J. (2011). The role of multiple representations in the understanding of ideal gas problems. *Chem. Educ. Res. Pract*, 12, hlm. 283–293.
- Majid, A. (2011). *Perencanaan pembelajaran: Mengembangkan standar kompetensi guru*. Bandung: PT. Remaja Rosdakarya.
- Mc Murry, J.E. & Fay, R.C. (2003). *Chemistry*. Edisi Keempat. Philadelphia: brooks/cole publishing Company.

- Metafisika, K. (2014). *Pengembangan model buku teks pelajaran berbasis representasi kimia pada pokok bahasan kelarutan dan hasil kali kelarutan.* (Tesis). Universitas Pendidikan Indonesia, Bandung.
- Moeller, T., Bailar, J. C., Kleinberg, J. Guss, C. O, Castellion, M. E. & Metz, C. (1980). *Chemistry with inorganic qualitative analysis.* New York: Academic Press, Inc.
- Mulford, D. & Robinson, W. (2002). An inventory for alternate conceptions among first-semester general chemistry students. *Journal of Chemical Education*, 79 (6), hlm. 739-744.
- Mulyono (2012). *Strategi pembelajaran kimia.* Bandung: Jurusan Pendidikan Kimia FPMIPA UPI.
- Mulyono (2013). *Handout perkuliahan perencanaan pembelajaran kimia.* Bandung: Jurusan Pendidikan Kimia FPMIPA UPI.
- Munthe, B. (2009). *Desain pembelajaran.* Yogyakarta: Pustaka Insan Madani.
- Oxtoby, D. W., Gillis, H. P., & Campion, A. (2012). *Principle of modern chemistry.* Edisi ketujuh. Washington: Brooks/Cole Cengage Learning.
- Özgelen, S. (2012). Students' science process skills within a cognitive domain framework. *Eurasia Journal of Mathematics, Science & Technology Education*, 8 (4), hlm. 283-292.
- Özmen, H. (2008). Determination of students' alternative conceptions about chemical equilibrium: A review of research and the case of Turkey. *Chemistry Education Research and Practice*. 9, hlm. 225-233.
- Padilla, M. J. (1990). *The science process skills.* [Online]. Diakses dari <https://www.narst.org/publications/research/skill.cfm>.
- Peraturan Menteri Pendidikan dan Kebudayaan Nomor 54 Tahun 2013 tentang Standar Kompetensi Lulusan.
- Peraturan Menteri Pendidikan dan Kebudayaan Nomor 59 Tahun 2014 tentang Kurikulum 2013 Sekolah Menengah Atas/Madrasah Aliyah.
- Peraturan Menteri Pendidikan dan Kebudayaan nomor 64 tahun 2013 tentang Standar Isi.

Peraturan Menteri Pendidikan dan Kebudayaan Nomor 65 tahun 2013 tentang Standar Proses.

Peraturan Menteri Pendidikan dan Kebudayaan Nomor 69 Tahun 2013 tentang Kerangka Dasar dan Struktur Kurikulum Sekolah Menengah Atas/Madrasah Aliyah.

Petrucci, R. H., Herring, F. G., Madura, J. D., & Bissonette, C. (2011). *General chemistry: Principles and modern applications*. Edisi kesepuluh. Toronto: Pearson Education, Inc.

Pinarbaşı, T & Canpolat, N. (2003). Students' understanding of solution chemistry concepts. *Journal of Chemical Education*, 80 (11), hlm. 1328-1332.

Pinarbaşı, T. (2006). An investigation of effectiveness of conceptual change text-oriented instruction on students' understanding of solution concepts. *Research in Science Education*. 36, hlm. 313-335.

Primasari, M. (2013). *Analisis pemahaman konsep siswa high and low achievers pada materi kelarutan dan hasil kali kelarutan berdasarkan proses pembelajaran di SMA unggulan Padang*. (Tesis). Universitas Pendidikan Indonesia, Bandung.

Rauf, R. A. A., Rasul, M. S., Mansor, A. N., Othman, Z., & Lyndon, N. (2013). Inculcation of science process skills in a science classroom. *Asian Social Science*, 9(8), hlm. 19-23.

Rezba, R. J., Sprague, C., Fiel, R. L. (2002). *Learning and assessing science process skills*. Edisi Keempat. Dubuque: Kendall/Hunt Publishing Company.

Roqib, M. (2009). *Ilmu pendidikan islam: Pengembangan pendidikan integrative di sekolah, keluarga, dan masyarakat*. Yogyakarta: LKiS Yogyakarta.

Rusman, R. (2010). *Model-model pembelajaran*. Jakarta: Rajawali Press.

Sanjaya, W. (2006). *Strategi pembelajaran berorientasi standar proses pendidikan*. Jakarta: Penerbit Kencana.

Semrawan, C. R., Tangyong, A. F., & Belen, S. (1990). *Pendekatan keterampilan proses*. Jakarta: Penerbit Gramedia.

Şendur, G., Toprak, M., & Pekmez, E. S. (2010). Analyzing of students' misconceptions about chemical equilibrium. *International conference on*

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- new trends on education and their implication* (hlm. 1-7). Antalya: ICONTE.
- Silberberg, M. S. (2007). *Principle of general chemistry*. New York: McGraw-Hill.
- Sirhan, G. (2007). Learning difficulties in chemistry: an overview. *Journal of Turkish Science Education*, 4 (2), hlm. 2-20.
- Sudjana, N. & Suwariyah, W. (1991). *Model-model mengajar CBSA*. Bandung: Penerbit Sinar Baru Bandung.
- Sugrue, B. (1998). *Equity issues in collaborative group assessment: Group composition and performance*. (Tesis). University of California, Los Angeles.
- Sukarno, Permanasari, A. & Hamidah, I. (2013). The profile of science process skill (SPS) student at secondary high school (case study in Jambi). *International Journal of Scientific Engineering and Research (IJSER)*. 1(1), hlm. 79-83.
- Suparno, A. (2001). *Membangun kompetensi belajar*. Jakarta: Direktorat Jenderal Perguruan Tinggi Departemen Pendidikan Nasional.
- Susilowati (2013). Membelajarkan IPA dengan integrative science tinjauan scientific process skills dalam implementasinya pada kurikulum 2013. *Prosiding Seminar Nasional Penelitian Pendidikan dan Penerapan MIPA* (hlm 95-103). Yogyakarta: Fakultas MIPA UNY.
- Taber, K. (2009). Challenging misconceptions in the chemistry classroom: resources to support teachers. *Educació Química Edu*, 4, hlm. 13-20.
- Talanquer, V. (2011). Macro, submicro, and symbolic: the many faces of the chemistry “triplet”. *International Jurnal of Science Education*, 33 (2), hlm. 179-195.
- Tawil, M. & Liliyasi. (2014) *Keterampilan-keterampilan sains dan implementasinya dalam pembelajaran IPA*. Makassar: Badan Penerbit UNM.
- Tim Pengembang Ilmu Pendidikan FIP-UPI. (2007). *Ilmu dan aplikasi pendidikan: Pendidikan lintas bidang*. Bandung: IMTIMA.
- Tim Penyusun. (2008). *Kamus bahasa Indonesia*. Jakarta: Pusat Bahasa.

- Treagust, D., Chittleborough, G., & Mamiala, T. (2003). The role of submicroscopic and symbolic representations in chemical explanations. *International Journal of Science Education*, 25 (11), hlm. 1353-1368.
- Tosun, C. & Taskesenligil, Y. (2012). The effect of problem-based learning on undergraduate students' learning about solutions and their physical properties and scientific processing skills. *Chemical Education Research and Practice*, 14, hlm. 36-50.
- Waller, K. (2015). *Writing instructional objectives*. [Online]. Diakses dari <http://www.naacls.org/docs/announcement/writing-objectives.pdf>.
- Wenning, C. (2010). The levels of inquiry model of science teaching. *J.Phys. Tchr. Educ.* 6(2), hlm. 9-16.
- Whitten, K. W., Davis, R. E., Peck, L. M., & Stanley, G. (2004). *General chemistry*. Edisi ketujuh. Australia: Thomson Brooks/Cole.
- Wu, H. K., Krajcik, J. S., & Soloway, E. (2001). Promoting understanding of chemical representations: students' use of a visualization tool in the classroom. *Journal of Research In Science Teaching*, 38 (7), hlm. 821-842.
- Wu, H. K. (2003). Linking the microscopic view of chemistry to real-life experiences: intertextuality in a high-school science classroom. *Sci Ed*. 87, hlm. 868-891.