

DAFTAR PUSTAKA

- Afnidar. (2015). Pengaruh Strategi Pembelajaran Inkuiri dan Kepercayaan Diri Terhadap Keterampilan Proses Sains Biologi Siswa Pada Topik Pencemaran Lingkungan Di SMA Negeri 1 Muatiara Pidie, *Jurnal Jesbio*, 5 (1): 9-19.
- Akkuzu, Nalan, and Melis Arzu Uyulgan. (2017). Step by Step Learning Using the I Diagram in the Systematic Qualitative Analyses of Cations within a Guided Inquiry Learning Approach. *Chemistry Education Research and Practice*, 18 (4): 641–58.
- Arikunto, S. (2013). *In Prosedur Penelitian Suatu Pendekatan Praktik* (p. 203). Jakarta: Rineka Cipta.
- Avsec, S. & Kocijancic, S. (2014). Effectiveness if Inquiry-Based Learning: How Do Middle School Students Learn to Maximise The Efficacy of a Water Turbine?. *International Journal of Engineering Education*, 30(6), 1436-1449.
- Best, J. W. & Khan, J. V. (2006). *Research in Education* (10th ed). Manhattan: Pearson Education.
- Bächtold, M. (2013). What do students “construct” according to constructivism in science education?. *Res. Sci. Educ.*, 43(6), 2477–2496.
- Bagiyono. (2017). Analisis Tingkat Kesukaran dan Daya Pembeda Butir Soal Ujian Pelatihan Radiografi Tingkat 1. *Widyanuklida*, 16 (1), 1-12.
- Boopathiraj, C., & Chellamani, K. (2013). Analysis of test items on difficulty level and discrimination index in the test for research in education. *International journal of social science & interdisciplinary research*, 2(2), 189-193.
- Cigdemoglu, C. dan Geban, Ö. (2015). Improving Students’ Chemical Literacy Level on Thermochemical and Thermodynamics Concepts through Context-Based Approach. *Chemistry Education Research and Practice*. 16(2).
- Coffman T. (2012). *Using inquiry in the classroom: developing creative thinkers and information literate students*, 2nd edn. Lanham, MD: Rowman & Littlefield Education.
- Cohen, L., Manion, L., & Morrison, K. (2018). *Research Methods in Education* (Vol. 8). New York: Routledge.
- Daryanto, H. (2014). *Evaluasi Pendidikan*. Jakarta: Rineka Cipta.

- Darwis, Darsef, *et al.* (2019). Pengaruh Model Pembelajaran *Guided Discovery Learning* Terhadap Literasi Kimia Peserta Didik pada Materi Larutan Penyangga. *Jurnal Riset Pendidikan Kimia*, 9 (2), 67-71.
- David. (2009). *Methodos For Teaching*. Yogyakarta: Pustaka Pelajar
- Fidya, Sihaloho, M., dan Botutihe, D. N. (2018). Pengaruh Penggunaan Pendekatan Saintifik Terhadap Hasil Belajar Siswa Pada Materi Hidrolisis Garam. *Jurnal Entropi*, 13(2), 143-149.
- Ghanizadeh, A. (2017). The Interplay Between Reflective Thinking, Critical Thinking, Self-Monitoring, and Academic Achievement and Higher Education. *Higher Education*, 74, 101-114.
- Grangeat, Michel, Christine Harrison, and Jens Dolin. (2021). Exploring Assessment in STEM Inquiry Learning Classrooms. *International Journal of Science Education* 43 (3): 345–61.
- Hayat, B. dan S. Yusuf. (2010). *Mutu Pendidikan*. Jakarta: Bumi Aksara.
- Johari, J., Sahari, J., Wahab, D. A., Abdullah, S., Abdullah, S., Omar, M. Z., & Muhamad, N. (2011). Difficulty index of examinations and their relation to the achievement of programme outcomes. *Procedia-Social and Behavioral Sciences*, 18, 71-80.
- Kang, Jingoo. (2022). Interrelationship Between Inquiry-Based Learning and Instructional Quality in Predicting Science Literacy. *Research in Science Education*, 52: 339–355.
- Listiawati, Milla. (2007). *Peningkatan penguasaan konsep dan keterampilan kerja ilmiah dengan pendekatan inkuiri pada konsep bioteknologi di kelas IX*. Jakarta: CSE.
- Laksono, P. J. (2018). Studi Kemampuan Literasi Kimia Mahasiswa Pendidikan Kimia pada Materi Pengelolaan Limbah, *Orbital: Jurnal Pendidikan Kimia*, 2(1), 1-12.
- Lawshe, C. H. (1975). A Quantitative Approach to Content Validity. *Personnel Psychology*, 28(4), 563-575.
- Loertscher, J. & Minderhout, V. (2019). Implementing Guided Inquiry in Biochemistry: Challenges and Opportunities. *Biochemistry Education: From Theory to Practice*, 87(2), 111-126.
- Loes, C. N. & Pascarella, E. T. (2017). Collaborative Learning and Critical Thinking: Testing The Link. *The Journal of Higher Education*, 88(5), 726-753.

- Malik, A. (2015). Efektivitas Pendekatan Saintifik Dalam Meningkatkan Kemampuan *Attributing* pada Materi Hidrolisis Garam. *Jurnal Pendidikan dan Pembelajaran Kimia*, 4(2), 644-655.
- Miller, J. D. , & Pardo, R. (2000). *The Development of Civic Scientific Literacy in The United States. In Science, Technology, and Society: A Sourcebook on Research and Practice*, ed. D. D. Kumar and D. Chubin, 21–47. New York: Plenum Press.
- Miller, J. D. (2010). *The Conceptualization and Measurement of Civic Scientific Literacy for the Twenty-First Century. In 30 Meinwald, J. and Hildebrand J. G. (Eds.), Science and the Educated American: A Core Component of Liberal Education*, (1-20). American Academy of Arts and Sciences.
- Novili, W. I., Utari, S., Saepuzaman, D., & Karim, S. (2017). Penerapan Scientific Approach dalam Upaya Melatihkan Literasi Saintifik dalam Domain Kompetensi dan Domain Pengetahuan Siswa SMP pada Topik Kalor. *Jurnal Penelitian Pembelajaran Fisika*, 8(1), 57-63.
- OECD. (2003). *The PISA 2003 Assesment Framework-Mathematics, Reading, Science, and Problem Solving Knowledge and Skills*. Paris: OECD.
- OECD. (2016). *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic and Financial Literacy*. Paris: OECD.
- Pedaste M., Ma'eots M., Siiman L. A., de Jong T., van Riesen S. A. N., Kamp E. T., Manoli C. C., Zacharia Z. C. and Tsourlidaki E. (2015). "Phases of inquiry-based learning: Definitions and the inquiry cycle". *Educ. Res. Rev.*, 14(1), 47–61.
- Pertiwi, U. D., Atanti, R. D., Ismawati, R. (2018). Pentingnya Literasi Sains Pada Pembelajaran IPA SMP Abad 21. *Indonesia Journal of Natural Science Education (IJNSE)*, 1(1): 24-29.
- Prastiwi, M.N.B., Rahmah, N., Khayati, N., Utami, D.P., Primastuti, M. dan Majid, A.N. (2017), Studi Kemampuan Literasi Kimia Peserta Didik pada Materi Elektrokimia. *Prosiding Seminar Nasional UNY*.
- Purnawati, L., Damayani, A. T., Kiswoyo. (2019). Pengaruh Model Pembelajaran Inkuiri Terbimbing Terhadap Hasil Belajar Siswa Pada Materi Macam-Macam Gaya. *Journal for Lesson and Learning Studies*, 2(1), 64-72.
- Reid N. and Ali A. A. (2020). *Making sense of learning. A researchbased approach. Evidence to guide policy and practice, with an emphasis on secondary stages*. Cham: Springer.

- Rakhmawan, Mudzakir, dan Setiabudi, (2015), Perancangan Pembelajaran Literasi Sains Berbasis Inkuiri Pada Kegiatan Laboratorium, *Jurnal Penelitian Pembelajaran IPA*, 1(1): 143-152.
- Sahrul. (2009). *Model-Model Pembelajaran*. Bandung: Alfabeta.
- Sanjaya, W. (2006). *Strategi Pembelajaran*. Jakarta: Kencana Prenada Media Group.
- Sanjaya, Wina. (2013). *Strategi Pembelajaran Berorientasi Standar Proses Pendidikan*. Jakarta: Kencana Prenada Media Group.
- Sarioglan, A. B. & Gedik, I. (2020). Investigated Effects of Guided Inquiry Based-Learning Approach on Students' Conceptual Change and Durability. *Cypriot Journal of Educational Science*, 15(4), 674-685.
- Shwartz Y., Ben-Zvi R. and Hofstein A. (2005). The importance of involving high-school chemistry teachers in the process of defining the operational meaning of chemical literacy. *International Journal of Science Teaching*, 27, 323- 344.
- Shwartz. *et al.* (2006). The Use of Scientific Literacy Taxonomy for Assessing The Development of Chemical Literacy Among High-School Student. *Journal of Education Research and Practice*, 7(4), 203-225.
- Stender, Anita, *et al.* (2018). Making Inquiry-Based Science Learning Visible: The Influence Of CVS and Cognitive Skills on Content Knowledge Learning In Guided Inquiry. *International Journal of Science Education*, 4.
- Sugiyono. (2012). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R&D*. Bandung: Alfabeta.
- Suherman, Eman. (2003). *Evaluasi Pembelajaran Matematika*. Bandung : UPI.
- Sund & Trowbridge. (1976). *Teaching Science by Inquiry in the Secondary School*. Columbus: Charles E. Merrill Publishing Company.
- Toharudin, Uus. (2011). *Membangun Literasi Sains Peserta Didik*. Bandung: humaniora.
- Trna, J., Trnova, E., & Sibor, J. (2012). Implementation of inquiry-based science education. *Journal of educational and instructional studies*, 2(4), 199–209.
- Witte, D. & Beers, K. (2003). Testing of chemical literacy (chemistry in context in the Dutch national examination). *Chemical Education International*, 4(1), 1-3.

Xu H. and Talanquer V. (2013). "Effect of the level of inquiry of lab experiments on general chemistry students' written reflections". *J. Chem. Educ.*, 90(1), 21–28.

Yuliati, Y. (2017). Literasi Sains dalam Pembelajaran IPA. *Jurnal Cakrawala Pendas*, 3(2), 21-28.

Zion M. and Mendelovici R. (2012). Moving from structured to open inquiry: Challenges and limits. *Sci. Educ. Int.*, 23(4), 383–399.

