

DAFTAR PUSTAKA

- Apriani, I., Okmarisa, H., Ardiansyah, A., & Afrianis, N. (2024). Analisis Kesulitan Belajar Kimia Siswa Kelas X Pada Materi Hukum Dasar Kimia Di Sekolah Menengah Atas Negeri 1 Minas. *Journal of Research and Education Chemistry*, 6(2), 126. [https://doi.org/10.25299/jrec.2024.vol6\(2\).17766](https://doi.org/10.25299/jrec.2024.vol6(2).17766)
- Bayhaqi, H. N., & Darmawan, D. (2025). Factors Influencing Student Learning Outcomes: Teacher Competence, Learning Environment, and Learning Stress. *At-Taqdum*, 17(1), 46–67. <https://doi.org/10.21580/at.v17i1.26791>
- Chase, A., S. Rao, A., Lakmala, P., & Varma-Nelson, P. (2020). Beyond content knowledge: transferable skills connected to experience as a peer-leader in a PLTL program and long-term impacts. *International Journal of STEM Education*, 7(1), 1–10. <https://doi.org/10.1186/s40594-020-00228-1>
- Chen, H. J., & Chang, H. P. (2018). Impact of inquiry-based learning in *Peer-Led Team Learning* on students' scientific literacy and learning motivation. *International Journal of Science and Mathematics Education*, 16(8), 1435–1457.
- Creswell, J. W., & Creswell, J. D. (2018). *Research design: Qualitative, quantitative, and mixed methods approaches* (5th ed.). Thousand Oaks, CA: SAGE Publications.
- Dobber, M., Zwart, R., Tanis, M., & van Oers, B. (2017). Literature review: The role of the teacher in inquiry-based education. *Educational Research Review*, 22, 194–214. <https://doi.org/10.1016/j.edurev.2017.09.002>
- Dreyfuss, A. E., Fraiman, A., Montes, M. O., Hudson, R., Ortega, M., Muniz, J., Piefke, F., Rodriguez, M., Sheila, M., Vargas, K., Vu, N., Dreyfuss, A. E., Fraiman, A., Montes, M. O., Hudson, R., Ortega, F. M., Muniz, J., Piefke, F., Rodriguez, M., ... Vu, N. (2021). Advances in Peer-Led Learning Peer Leading Small Group Discussion During COVID-19. *Advances in Peer-Led Learning*, 1, 55–67.
- El-Haqq, W. T., & Mitarlis, M. (2024). Penerapan Model Pembelajaran Inkuiri Terbimbing Pada Materi Laju Reaksi Untuk Meningkatkan Literasi Sains Siswa Smk. *UNESA Journal of Chemical Education*, 13(1), 30–37. <https://doi.org/10.26740/ujced.v13n1.p30-37>
- Frey, R. F., Fink, A., Cahill, M. J., McDaniel, M. A., & Solomon, E. D. (2018). *Peer-Led Team Learning* in General Chemistry I: Interactions with Identity, Academic Preparation, and a Course-Based Intervention. *Journal of Chemical Education*, 95(12), 2103–2113. <https://doi.org/10.1021/acs.jchemed.8b00375>
- Gosser, D. K., Kampmeier, J. A., & Varma-Nelson, P. (2010). *Peer-Led Team Learning*: 2008 james flack norris award address. *Journal of Chemical Education*, 87(4), 374–380. <https://doi.org/10.1021/ed800132w>
- Guden, J. M., & Bellen, J. A. (2020). A scoping review of the *Peer-Led Team Learning* to learner-participants and *peer leaders* in STEM courses.

International Journal of Research Studies in Education, 9(5), 1–13.
<https://doi.org/10.5861/ijrse.2020.5008>

Gunawan, G., Harjono, A., & Sutrio, S. (2018). The impact of physics and science learning models on students' critical thinking skills and cognitive outcomes. *Jurnal Penelitian Pendidikan IPA*, 4(2), 24–30.
<https://doi.org/10.29303/jppipa.v4i2.115>

Hockings, S. C., DeAngelis, K. J., & Frey, R. F. (2008). *Peer-Led Team Learning* in general chemistry: Implementation and evaluation. *Journal of Chemical Education*, 85(7), 990–996. <https://doi.org/10.1021/ed085p990>

Kurniawati, Y., Mayshinta, I., & Yenti, E. (2023). Identifikasi Kesulitan Materi Kimia Bagi Siswa SMA: Kajian Literatur. ... *Seminar Nasional Hasil ...*, 23–27.
<https://www.ejournal.uniks.ac.id/index.php/ProsidingUniks/article/view/3371>

Kuhlthau, C. C., Maniotes, L. K., & Caspari, A. K. (2015). *Guided inquiry: Learning in the school library* (2nd ed.). Libraries Unlimited.

Lidiawati, dewi Mubarak, syahrul Rombe, Y. (2023). ARFAK CHEM Chemistry Education journal. *Chemistry Education Journal*, 3(1), 186–192.

Lamina, S., Sudarmin, S., & Sumarni, W. (2021). The effectiveness of *Peer-Led Team Learning* (PLTL) model on students' critical thinking skills and concept mastery in chemistry. *Journal of Innovative Science Education*, 10(2), 154–161.

McGinn, T., Pascoe, K. M., & Burns, P. (2025). Teaching social work students about evidence-based practice using peer-led learning and assessed conversations. *Social Work Education*, 44(6), 1519–1534.
<https://doi.org/10.1080/02615479.2024.2409182>

Muntari, M., Wildan, W., & Sari, N. (2017). Penerapan model pembelajaran inkuiri terbimbing untuk meningkatkan kemampuan berpikir kritis dan hasil belajar kimia siswa. *Jurnal Penelitian Pendidikan IPA*, 3(1), 22–30.
<https://doi.org/10.29303/jppipa.v3i1.63>

National Research Council. (1996). *National science education standards*. National Academy Press. <https://doi.org/10.17226/4962>

Ntumi, S., Agbenyo, S., & Bulala, T. (2023). Estimating the psychometric properties (item difficulty, discrimination and reliability indices) of test items using Kuder-Richardson approach (KR-20). *Shanlax International Journal of Education*, 11(3), 18–28. <https://doi.org/10.34293/education.v11i3.6081>

Ogunleye, B. O. (2020). Peer-Led Guided Inquiry as an effective strategy for improving Secondary School Students' performance and Practical Skills Performance in Chemistry. *Journal of Studies in Science and Mathematics Education*, 3(1), 33–46.

Pedaste, M., Mäeots, M., Siiman, L. A., de Jong, T., van Riesen, S. A. N., Kamp,

- E. T., Manoli, C. C., Zacharia, Z. C., & Tsourlidaki, E. (2015). Phases of inquiry-based learning: Definitions and the inquiry cycle. *Educational Research Review*, 14, 47–61. <https://doi.org/10.1016/j.edurev.2015.02.003>
- Priadana, S. (2021). *METODE PENELITIAN KUANTITATIF*. Pascal Book.
- Rahayu, A., Ilimu, E., & Adewia, M. (2022). Development of Interactive E-Workbook Based on *Peer-Led Team Learning* on Collaboration Skills and Critical Thinking in Basic Chemistry Concept. *JTK (Jurnal Tadris Kimiya)*, 7(2), 201–214. <https://doi.org/10.15575/jtk.v7i2.19750>
- Sariati, Ni Kadek, Suardana, Nyoman, Wiratini, N. M. (2020). *Materi Larutan Penyangga*. 4(April 2020), 76–87.
- Sudjana, N. (2001). *Penilaian Hasil Proses Belajar Mengajar*. Remaja Rosdakarya.
- Sudijono, A. (2018). *Pengantara Evaluasi Pendidikan*. RajaGrafindo Persada.
- Sloane, J. D., Dunk, R. D. P., Snyder, J. J., Winterton, C. I., & ... (2021). *Peer-Led Team Learning* is Associated with an Increased Retention Rate for STEM Majors from Marginalized Groups. *Grantee Submission*, 1–9. <https://eric.ed.gov/?id=ED630836%0Ahttps://files.eric.ed.gov/fulltext/ED630836.pdf>
- Suleman, N. (2023). Analisis Kemampuan Kognitif Siswa Pada Materi Larutan Elektrolit Dan Non Elektrolit Di Sma N 1 Kabupaten Gorontalo. *In Seminar Nasional*, 1, 64–71.
- Sanjaya, W. (2016). *Strategi pembelajaran berorientasi standar proses pendidikan*. Kencana.
- Theobald, E. J., Hill, M. J., Tran, E., Agrawal, S., Nicole Arroyo, E., Behling, S., Chambwe, N., Cintrón, D. L., Cooper, J. D., Dunster, G., Grummer, J. A., Hennessey, K., Hsiao, J., Iranon, N., Jones, L., Jordt, H., Keller, M., Lacey, M. E., Littlefield, C. E., ... Freeman, S. (2020). Active learning narrows achievement gaps for underrepresented students in undergraduate science, technology, engineering, and math. *Proceedings of the National Academy of Sciences of the United States of America*, 117(12), 6476–6483. <https://doi.org/10.1073/pnas.1916903117>
- Wamser, C. C. (2006). *Peer-Led Team Learning* in organic chemistry: Effects on student performance, success, and persistence in the course. *Journal of Chemical Education*, 83(10), 1562–1566. <https://doi.org/10.1021/ed083p1562>
- Wayan Muderawan, I., Lananf Wiratma, I. G., & Zahra Nabila, M. (2019). Analisis Faktor-Faktor Penyebab Kesulitan Belajar Siswa pada Materi Kelarutan dan Hasil Kali Kelarutan. *Jurnal Pendidikan Kimia Indonesia*, 3(1), 17–23.
- Welder, C. O. (2019). An All-In Approach to Flipping the Organic Chemistry Classroom Using Elements of *Peer-Led Team Learning* with Undergraduate Learning Assistants [Chapter]. *ACS Symposium Series*, 1336, 119–148. <https://doi.org/10.1021/bk-2019-1336.ch008>
- Widia, Sarnita, F., Irawan, A., Syafrudin, Armansyah, Nurdiana, Hunaepi,

- Sapnowandi, Prayogi, S., & Asy' Ari, M. (2021). The effectiveness of guided inquiry learning tools in increasing students' activities and creative thinking skills. *Journal of Physics: Conference Series*, 1816(1). <https://doi.org/10.1088/1742-6596/1816/1/012102>
- Wilson, S. B., & Varma-Nelson, P. (2016). Small Groups, Significant Impact: A Review of *Peer-Led Team Learning* Research with Implications for STEM Education Researchers and Faculty. *Journal of Chemical Education*, 93(10), 1686–1702. <https://doi.org/10.1021/acs.jchemed.5b00862>
- Wiersma, W., & Jurs, S. G. (2009). *Research Methods in Education: An Introduction* (9th ed.). Pearson.
- Winterton, C. I., Dunk, R. D. P., & Wiles, J. R. (2020). *Peer-Led Team Learning* for introductory biology: relationships between peer-leader relatability, perceived role model status, and the potential influences of these variables on student learning gains. *Disciplinary and Interdisciplinary Science Education Research*, 2(1). <https://doi.org/10.1186/s43031-020-00020-9>
- Woods, D. R. (2014). Problem-oriented learning, problem-based learning, problem-based synthesis, process oriented guided inquiry learning, *Peer-Led Team Learning*, model-eliciting activities, and project-based learning: What is best for you? *Industrial and Engineering Chemistry Research*, 53(13), 5337–5354. <https://doi.org/10.1021/ie401202k>
- Wheeler, L. B., Maeng, J. L., & Whitworth, B. A. (2017). Characterizing teaching assistants' knowledge and beliefs following professional development activities within an inquiry-based general chemistry context. *Journal of Chemical Education*, 94(1), 19–28
- Young, J. D. (2024). *Introductory Chemistry Student Success: Evaluating Peer-Led Team Learning and Understanding Sense of Belonging*. March.
- Zhang, S. (2025). What affects peer interaction in universities? Examining the effects of paternalistic leadership and *peer leadership* on peer interaction of teachers. *BMC Psychology*, 13(1). <https://doi.org/10.1186/s40359-025-02595-2>
- Ziebell, N., & Skeat, J. (2020). Evidence-based reasoning processes in education: A model to support interventionist practice. *Australian Journal of Teacher Education*, 45(3), 81–93. <https://doi.org/10.14221/ajte.2020v45n3.6>