

## DAFTAR PUSTAKA

- Anwar, Y. A. S., Purwoko, A. A., Idrus, S. W. A., Siahaan, J., & Ariani, S. (2023). Sosialisasi Pembelajaran Kimia Berbasis Kasus dalam Pencapaian Pembelajaran Bermakna. *Jurnal Pengabdian Magister Pendidikan IPA*, 6(3), 591–596.
- Araújo, J. L., Morais, C., & Paiva, J.C. (2021). Students' attitudes towards science: the contribution of a citizen science project for monitoring coastal water quality and (Micro) Plastics. *Journal of Baltic Science Education*, 20 (6), 881–893.
- Ayyıldız, Y., Tarhan, L., & Gil, A. (2023). Comparing the effectiveness of the learning material and the learning method in students' achievement in chemistry lesson on chemical changes. *Research in Science & Technological Education*, 41(4), 1372-1393.
- Baanu, T. F., Oyelekan, O. S., & Olorundare, A. S. (2018). Self-efficacy and chemistry students' academic achievement in senior secondary schools in North-Central, Nigeria. *MOJES: Malaysian Online Journal of Educational Sciences*, 4(1), 43-52.
- Bhandari, L.P. (2020). Task-based language teaching: a current efl approach. *Adv. Lang. Lit. Study*, 11 (1), 1–5.
- Chusnah, W., Ibnu, S., & Sutrisno, S. (2020). Pengembangan Bahan Ajar Kimia Materi Hidrolisis Garam dengan Pendekatan Scientific Inquiry Berbasis Problem Based Learning. *Jurnal Pendidikan: Teori, Penelitian, Dan Pengembangan*, 5(7), 980.
- Creswell, J. W. (2014). *A concise introduction to mixed methods research*. SAGE publications.
- Dawson, V. (2023). Teachers' support in developing year 7 students' argumentation skills about water-based socioscientific issues. *International Journal of Science Education*, 1-18.
- Depdiknas. (2006). Permendiknas No 22 Tahun 2006 Tentang Standar Isi. Jakarta: Depdiknas.
- Espeja, A. G., & Lagarón, D. C. (2015). Socio-scientific issues (SSI) in initial training of primary school teachers: Pre-service teachers' conceptualization of SSI and appreciation of the value of teaching SSI. *Procedia-Social and Behavioral Sciences*, 196, 80-88.
- Habiddin, H., Indasari, K. D. F., Kurnia, E., Akmal, B. U. T., & Yahmin, Y. (2023). Profil Pemahaman Konsep Hidrolisis Garam: Studi Pada Siswa SMA di Jawa Timur. *Jambura Journal of Educational Chemistry*, 5(1), 83-89.
- Habiddin, H., & Page, E. M. (2019). Development and validation of a four-tier diagnostic instrument for chemical kinetics (FTDICK). *Indonesian Journal of Chemistry*, 19(3), 720-736.
- Hatimah, H., & Khery, Y. (2021). Pemahaman Konsep dan Literasi Sains dalam Penerapan Media Pembelajaran Kimia Berbasis Android. *Jurnal Ilmiah IKIP Mataram*, 8(1).
- Hurrell, D. (2021). Conceptual knowledge or procedural knowledge or conceptual knowledge and procedural knowledge: Why the conjunction is important to teachers. *Australian Journal of Teacher Education (Online)*, 46(2), 57-71.
- Idul, J. J. A., & Caro, V. B. (2022). Does process-oriented guided inquiry learning (POGIL) improve students' science academic performance and process skills? *International Journal of Science Education*, 44(12), 1994-2014.
- Jafar, A. F. (2021). Penerapan metode pembelajaran konvensional terhadap hasil belajar fisika peserta didik. *Al asma: Journal of Islamic Education*, 3(2), 190-199.

- Jariati, E., & Yenti, E. (2020). Pengembangan E-Magazine Berbasis Multipel Representasi untuk Pembelajaran Kimia di SMA pada Materi Larutan Elektrolit dan Non Elektrolit. *Journal of Natural Science and Integration*, 3(2), 138.
- Jaya, I. M. L. M. (2020). *Metode Penelitian Kuantitatif dan Kualitatif: Teori, Penerapan, dan Riset Nyata*. Yogyakarta: Anak Hebat Indonesia.
- Jegstad, K. M. (2023). Inquiry-based chemistry education: a systematic review. *Studies in Science Education*, 1-63.
- Kinslow, A. T., Sadler, T. D., & Nguyen, H. T. (2019). Socio-scientific reasoning and environmental literacy in a field-based ecology class. *Environmental Education Research*, 25(3), 388-410.
- Laliyo, L. A. R., Sumintono, B., & Panigoro, C. (2022). Measuring changes in hydrolysis concept of students taught by inquiry model: stacking and racking analysis techniques in Rasch model. *Heliyon*, 8(3).
- Lu, S., & Bi, H. (2016). Development of a measurement instrument to assess students' electrolyte conceptual understanding. *Chemistry Education Research and Practice*, 17(4), 1030-1040.
- Maratusholihah, N. F., Rahayu, S., & Fajaroh, F. (2017). Analisis miskonsepsi siswa sma pada materi hidrolisis garam dan larutan penyangga. *Jurnal Pendidikan: Teori, Penelitian, dan Pengembangan*, 2(7), 919-926.
- Muderawan, W., Wiratma, I. G. L., & Nabila, M. Z. (2019). Analisis Faktor-Faktor Penyebab Kesulitan Belajar Kelarutan. *Jurnal Pendidikan Kimia*, 3(1), 17-23.
- Mu'minin, A. A., Dasna, I. W., & Suharti, S. (2020). Efektivitas POGIL pada pembelajaran kesetimbangan kimia terhadap keterampilan proses sains dan hasil belajar siswa dengan kemampuan awal berbeda. *Hydrogen: Jurnal Kependidikan Kimia*, 8(1), 29-39.
- Mekarisce, A. A. (2020). Teknik pemeriksaan keabsahan data pada penelitian kualitatif di bidang kesehatan masyarakat. *Jurnal Ilmiah Kesehatan Masyarakat: Media Komunikasi Komunitas Kesehatan Masyarakat*, 12(3), 145-151.
- Moog, R. S. & Spencer, N. J. (2015). In Process Oriented Guided Inquiry Learning (POGIL). *ACS Symposium Series*. Washington DC: American Chemical Society.
- Nabil, N. R. A., Wulandari, I., Yamtinah, S., Ariani, S. R. D., & Ulfa, M. (2022). Analisis indeks Aiken untuk mengetahui validitas isi instrumen asesmen kompetensi minimum berbasis konteks sains kimia. *Jurnal Penelitian Pendidikan*, 25(2), 184-191.
- Sudijono, A. (2018). *Pengantar Statistik Pendidikan*. Jakarta: Rajawali Pers.
- Nusi, K., Laliyo, L. A., Suleman, N., & Abdullah, R. (2021). Deskripsi pemahaman konseptual siswa pada materi hidrolisis garam. *Jurnal Inovasi Pendidikan Sains*, 12(1), 118-127.
- Owens, D. C., Sadler, T. D., & Friedrichsen, P. (2021). Teaching practices for enactment of socio-scientific issues instruction: An instrumental case study of an experienced biology teacher. *Research in Science Education*, 51(2), 375.

- Özkanbaş, M., & Kırık, Ö. T. (2020). Implementing collaborative inquiry in a middle school science course. *Chemistry Education Research and Practice*, 21(4), 1199–1217.
- Pahleviannur, M. R., De Grave, A., Saputra, D. N., Mardianto, D., Hafrida, L., Bano, V. O., & Sinthania, D. (2022). *Metodologi Penelitian Kualitatif*. Sukoharjo: Pradina Pustaka.
- Pradanita, N. P., Hudiono, B., & Astuti, D. (2015). Pemahaman Konseptual Siswa Ditinjau dari Tingkat Kemampuan Matematika Materi Aljabar di SMP. *Jurnal Pendidikan dan Pembelajaran Khatulistiwa (JPPK)*, 4(6).
- Priliyanti, A., Muderawan, I. W., & Maryam, S. (2021). Analisis kesulitan belajar siswa dalam mempelajari kimia kelas XI. *Jurnal Pendidikan Kimia Undiksha*, 5(1), 11-18.
- Qamariyah, S. N., Rahayu, S., Fajaroh, F., & Alsulami, N. M. (2021). The Effect of Implementation of Inquiry-Based Learning with Socio-Scientific Issues on Students' Higher-Order Thinking Skills. *Journal of Science Learning*, 4(3), 210-218.
- Riduan dan Sunarto. (2015). *Skala Pengukuran Variabel-Variabel Penelitian*. Bandung: Alfabeta.
- Samosir, B. (2022). Implementation of Process Oriented Guided Inquiry Learning Model Learning (POGIL) on Understanding of Science Concepts, Skills Science Process and Student's Critical Thinking Ability. *International Journal of Multidisciplinary: Applied Business and Education Research*, 3(9), 1673-1682.
- Sanchez, J. M. P. (2018). Translational Skills of Students in Chemistry. *Science Education International*, 29(4), 214-219.
- Sugiyono. (2015). *Metode Penelitian Kuantitatif, Kualitatif dan R&D*. Bandung: Alfabeta.
- Suprihatiningrum, J. (2013). *Strategi Pembelajaran Teori dan Aplikasi*. Yogyakarta: Ar-Ruzz Media.
- Susilaningsih, E., Kasmui, & Harjito. (2016). Desain Instrumen Tes Diagnostik Pendeteksi Miskonsepsi untuk Pemahaman Konsep Kimia Mahasiswa Calon Guru. *Unnes Science Education Journal*, 5(3), 1432-1437.
- Sutawidjaja, A., & Afgani, J. (2015). Konsep dasar pembelajaran matematika. *Pembelajaran Matematika*, 4(9), 51-57.
- Utami, A. D., Suriyah, P., & Mayasari, N. (2020). *Level Pemahaman Konsep Komposisi Fungsi Berdasar Taksonomi SOLO (Structure Of Observed Learning Outcomes)*. Banyumas: CV Pena Persada.
- Winarti, & Istiyono, E. (2020). *Taksonomi Higher Order Thingking Skill Untuk Penilaian Pembelajaran Fisika*. Salatiga: Widya Sari Press Salatiga.
- Zvoch, K., Holveck, S., & Porter, L. (2021). Teaching for conceptual change in a density unit provided to seventh graders: a comparison of teacher-and student-centered approaches. *Research in Science Education*, 51, 13951421.