

DAFTAR PUSTAKA

- Ananda, M. (2020). *Analisis Kemampuan Berpikir Kritis Siswa pada Pembelajaran Fisika secara Daring dengan Penerapan STEAM Based Learning*. 1–28. <http://repository.uph.edu/id/eprint/12590>
- Ardana, V. (2019, Oktober 9). *Pengertian dari etika Deontologi dan etika Teleologi*. Retrieved from Brilio: rilio.net: <https://m.brilio.net/creator/ini-pengertian-dari-etika-deontologi-dan-etika-teleologi-76f843.html>
- Ardianti, S., Sulisworo, D., Pramudya, Y., & Raharjo, W. (2020). The impact of the use of STEM education approach on the blended learning to improve student's critical thinking skills. *Universal Journal of Educational Research*, 8(3 B), 24–32. <https://doi.org/10.13189/ujer.2020.081503>
- Arinillah, G. A. (2016). Pengembangan buku siswa dengan pendekatan terpadu science, technology, engineering, and mathematics (STEM) berbasis inkuiri terbimbing pada materi kalor. *Skripsi*.
- Baskoro, D. G. (2013). Penulisan Tugas Akhir. *Information Literacy*, 1.
- Beers, S. (2011). *21st Century skills: Preparing students for their future*. London: AD Author.
- Berkhof, L. (2016). *Teologi sistematika volume 1: Doktrin Allah*. Surabaya: Momentum.
- Capraro, R. M., & Slough, W. S. (2013). *STEM project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach*. Rotterdam: Sense Publishers.
- Camp, G., Kaar, A. van het, Molen, H. van der, & Schmidt, H. (2014). *PBL : step by step a guide for students and tutors*. 1–19.
- Chevallier, A. (2016). *Strategic thinking in Complex Problem solving*. Oxford: Oxford University Press.
- Dachi, N. C. W. (2020). *Penerapan six thinking hats pada pembelajaran fisika untuk meningkatkan keterampilan berpikir siswa kelas X*. 1–26. <http://repository.uph.edu/id/eprint/14338>
- Duron, R., Limbach, B., & Waugh, W. (2006). Critical thinking framework for any discipline. *International Journal of Teaching and Learning in Higher Education*, 160-166. Retrieved from <http://www.isetl.org/ijtlhe/>
- Ejiwale, J. A. (2012). Facilitating teaching and learning across STEM fields. *Journal of STEM Education*, 87-94.
- Farida, I., Sunarya, R. R., Aisyah, R., & Helsy, I. (2020). Pembelajaran Kimia

Sistem Daring di Masa Pandemi Covid-19 Bagi Generasi Z. *KTI UIN Sunan Gunung Djati*, 1–11. <http://digilib.uinsgd.ac.id/30638/>

- Farwati, R., Permanasari, A., Firman, H., & Suhery, T. (2017). Integrasi problem based learning dalam STEM education berorientasi pada aktualisasi literasi lingkungan dan kreativitas. *Prosiding Seminar Nasional Pendidikan IPA*, 198–206.
- Geertsen, H. R. (2003). Rethinking thinking about higher-level thinking. *Teaching Sociology*, 1-19.
- Glaser, E. M. (1941). *An experiment in the development of critical thinking*. New York: Teachers College of Columbia University, Bureau of Publications.
- Han, S. C., & Capraro, M. M. (2015). How science, technology, engineering, and mathematics (STEM) project-based learning (PBL) affects high, middle, and low achievers differently: The impact of student factors on achievement. *International Journal of Science and Mathematics Education*, 1089-113.
- Hacioglu, Y., & Gulhan, F. (2021). The Effects of STEM Education on the Students' Critical Thinking Skills and To cite this article : The Effects of STEM Education on the Students' Critical Thinking Skills and STEM Perceptions. *Journal of Education in Science, Environment and Health*, 7(2), 139–155.
- Handari, K. A. Sugeng dan B. D. (2010). *Berfikir Kritis Dan Pemecahan Masalah*. 12.
- Hapiziah, S., Suhery, T., & Mujamil, J. (2015). Pengembangan bahan ajar kimia materi laju reaksi berbasis STEM problem-based learning kelas XI SMA negeri 1 Indralaya utara. *Jurnal Penelitian Pendidikan Kimia*, 206-219.
- Harjo, B., Kartowagiran, B., & Mahmudi, A. (2019). Development of critical thinking skill instruments on mathematical learning high school. *International Journal of Instruction*, 12(4), 149–166. <https://doi.org/10.29333/iji.2019.12410a>
- Ilma, Badarudin, P. (2019). Penerapan Pembelajaran Berbasis Science, Technology, Engineering, Arts, and Mathematics (STEAM) untuk Meningkatkan Keterampilan Bertanya Dasar dan Prestasi Belajar Peserta Didik Sekolah Dasar. *Jurnal Pendidikan Al-Ishlah*, 11(2), 211–215.
- Irmita, L. U. (1970). Pengembangan Modul Pembelajaran Kimia Menggunakan Pendekatan Science, Technology, Engineering and Mathematic (Stem) Pada Materi Kesetimbangan Kimia. *Orbital: Jurnal Pendidikan Kimia*, 2(2), 26–36. <https://doi.org/10.19109/ojpk.v2i2.2665>

- Islam, U., Raden, N., & Palembang, F. (2018). Orbital: Jurnal Pendidikan Kimia Volum 2, Nomor 2. *Academia.Edu*, June, 27–37. http://www.academia.edu/download/61499688/ANALISIS_PELAKSANAAN_MICRO_TEACHING_CALON_GURU_KIMIA_DI_FITK_UIN_RADE_N_FATAH_PALEMBANG20191212-94301-3nctpv.pdf
- ITEA. (2009). *The overlooked STEM imperatives: Technology and engineering K–12 education*. United States: Technology Education Association.
- Karakoc, M. (2016). The Significance of Critical Thinking Ability in Terms of Education. *International Journal of Humanities and Social Science*, 6(7), 81–84. www.ijhssnet.com
- Knight, G. (2019). *Filsafat & pendidikan*. Tangerang: Universitas Pelita Harapan Press.
- Maiwan, M. (2019). Memahami teori-teori etika: Cakrawala dan pandangan. *Jurnal UNJ*, 202.
- Muharomah, D. R. (2017). Pengaruh pembelajaran STEM (science, technology, engineering and mathematics) terhadap hasil belajar peserta didik pada konsep evolusi. *Skripsi*, 90.
- Murti, B. (2019). Berpikir Kritis dan Problem Base Learning. *Jurnal Kedokteran UNS*, 20(12), 75.
- Nars, K. J., & Bassem, H. R. (2008). Impact assessment of problem-based learning in an engineering science course. *Journal of STEM Education*, 3–4.
- News, U. (2021, Januari 8). *Pentingnya fungsi kognitif*. Retrieved from UNAIR News: <http://news.unair.ac.id/2021/01/08/pentingnya-fungsi-kognitif/>
- Noddings, N. (2009). Critical thinking in religious education. *Education and Hope in Troubled Times: Visions of Change for Our Children's World*, 18(3), 147–156. <https://doi.org/10.4324/9780203881859>
- Oktaviani, A., Anom, K., & Lesmini, B. (2020). Pengembangan Modul Kimia terintegrasi STEM (Science, Technology, Engineering and Mathematics) dan PBL (Problem-Based Learning). *Journal of Educational Chemistry (JEC)*, 2(2), 64. <https://doi.org/10.21580/jec.2020.2.2.6279>
- Paul, R., & Elder, L. (2006). *Critical thinking: tools for taking charge of your learning and your life*. Upper Saddle River, NJ: Pearson Prentice Hall.
- Piper, J. (2016, Juni 2). *Can you defend your hope in Christ*. Retrieved from Desiring God: <https://www.desiringgod.org/labs/can-you-defend-your-hope-in-christ>

- Rahmawati, Y., Ramadhani, S., & Afrizal. (2020). Developing students' critical thinking: A STEAM project for chemistry learning. *Universal Journal of Educational Research*, 72-82. Retrieved from <https://doi.org/10.13189/ujer.2020.080108>
- Redkar, S. (2012). Teaching advanced vehicle dynamics using a Project Based Learning (PBL) approach. *Journal of STEM Education*, 17-28.
- Reeve, J. M., Warren, C. S., Duchac, J. E., Wahyuni, E. T., Soepriyanto, G., Jusuf, A. A., & Djakman, C. D. (2009). *Pengantar Akuntansi-Adaptasi Indonesia*. Jakarta: Salemba Empat.
- Roberts, A., & Cantu, D. (2012). Applying STEM instructional strategies to design and technology curriculum. *Technology Education in the 21st Century, Proceeding of the PATT 26 Conference*.
- Ruggiero, V. R. (2012). *The art of thinking: A guide to critical and creative thought (10th ed.)*. New York: Longman.
- Papathanasiou, I. V., Kleisiaris, C. F., Fradelos, E. C., Kakou, K., & Kourkouta, L. (2014). Critical thinking: The development of an essential Skill for nursing students. *Acta Informatica Medica*, 22(4), 283–286. <https://doi.org/10.5455/aim.2014.22.283-286>
- Pardede, P. (2016). Berpikir kritis dan kreatif dalam pendidikan kristen. *Jurnal Pendidikan Agama Kristen: Regula Fidei*, 1(1), 1–32.
- Parno, Supriana, E., Yuliati, L., Widarti, A. N., Ali, M., & Azizah, U. (2019). The influence of STEM-based 7E learning cycle on students critical and creative thinking skills in physics. *International Journal of Recent Technology and Engineering*, 8(2 Special Issue 9), 761–769. <https://doi.org/10.35940/ijrte.B1158.0982S919>
- Putri, C. D., Pursitasari*, I. D., & Rubini, B. (2020). Problem Based Learning Terintegrasi STEM Di Era Pandemi Covid-19 Untuk Meningkatkan Keterampilan Berpikir Kritis Siswa. *Jurnal IPA & Pembelajaran IPA*, 4(2), 193–204. <https://doi.org/10.24815/jipi.v4i2.17859>
- Rizkihati, F., Dasna, I. W., & Santoso, A. (2019). Pengaruh Model Pembelajaran Problem Based Learning (PBL) Berbasis STEM pada Materi Kesetimbangan Kimia terhadap Pemahaman Konsep dan Keterampilan Berpikir Kritis Siswa. *Prosiding Seminar Nasional Kimia Dan Pembelajarannya (SNKP), November*, 276–280.
- Sari, S. I., Suhery, T., & Effendi. (2020). Pengembangan Bahan Ajar Kimia Dasar Berbasis STEM Problem Based Learning Pada Materi Termodinamika. *Jurnal Penelitian Pendidikan Kimia*, 7(2), 980–990.

- Setia Permana, I. P. Y., Nyeneng, I. D. P., & Distrik, I. W. (2021). The Effect of Science, Technology, Engineering, and Mathematics (STEM) Approaches on Critical Thinking Skills Using PBL Learning Models. *Berkala Ilmiah Pendidikan Fisika*, 9(1), 1. <https://doi.org/10.20527/bipf.v9i1.9319>
- Snyder, L. G., & Snyder, M. J. (2008). Teaching critical thinking and problem-solving skills how critical thinking relates to instructional design. *The Delta Pi Epsilon Journal*, 90-100.
- Staff, N. (2016, September 28). *Class of 2016 believes it is "Career Ready," but is it?* Retrieved from National Association of Colleges and Employers Website: <https://www.naceweb.org/career-readiness/student-attitudes/class-of-2016-believes-it-is-career-ready-but-is-it/>
- Suanglangi, H. (2005). Iman Kristen dan akal budi. *Jurnal Jaffray*, 43. Retrieved from <https://doi.org/10.25278/jj71.v2i2.160>
- Suardi. (2020). Implementasi Pembelajaran Berbasis Stem Untuk Meningkatkan Kemampuan Dalam Berpikir Kritis , Kreatif Dan Bekerjasama Peserta Didik Kelas Viia Smp. *Jurnal Sains Dan Pendidikan Fisika (JSPF)*, 02, 48-57.
- Sugihartono. (2007). *Psikologi pendidikan*. Yogyakarta: UNY Press.
- Tabi'in, A. (2019). Implementation of STEAM method (Science, Technology, Engineering, Arts And Mathematics) for early childhood developing in Kindergarten Mutiara Paradise Pekalongan. *Early Childhood Research Journal*, 36-47.
- Teacher Educator UtahState University. (2015). *Problem Solving Approaches in STEM*.
- Tong, S. (2008). Manusia Peta Teladan Allah. *Buletin Pillar, Part 12*, 1-16. <https://www.buletinpillar.org/transkrip/manusia-peta-teladan-allah-bagian-8#hal-1>
- Tong, S. (2020). *Pengakuan Iman Rasuli*. 36, 307.
- Tung, K. Y. (2014). *Menuju sekolah Kristen impian masa kini*. Yogyakarta: 2014.
- Urena, S., Cooper, M., & Stevens, R. (2012). Effect of cooperative problem-based lab instruction on metacognition and problem-solving skills. *Journal of Chemical Education*, 700-706.
- Van Dyk, J. (2013). *Surat-surat untuk Lisa: Percakapan dengan seorang guru Kristen*. Tangerang: UPH Press.
- White, R. F. (2000). *Moral Inquiry*. Ohio: Mount St. Joseph Publisher.
- Zakaria, P., Nurwan, N., & Silalahi, F. D. (2021). Deskripsi Kemampuan Berpikir

Kritis Siswa Melalui Pembelajaran Daring Pada Materi Segi Empat. *Euler : Jurnal Ilmiah Matematika, Sains Dan Teknologi*, 9(1), 32–39.
<https://doi.org/10.34312/euler.v9i1.10539>

