

DAFTAR PUSTAKA

- Agnafia, D. N. (2019). Analisis Kemampuan Berpikir Kritis Siswa dalam Pembelajaran Biologi. *Florea*, 6(1), 45–53. <https://doi.org/http://doi.org/10.25273/florea.v6i1.4369>
- Anazifa, R. D., & Djukri. (2017). Project - Based Learning and Problem - Based Learning: Are They Effective to Improve Student's Thinking Skills? *Jurnal Pendidikan IPA Indonesia*, 6(2), 346–355. <https://doi.org/10.15294/jpii.v6i2.11100>
- Arikunto, S. (2014). *Prosedur Penelitian : Suatu Pendekatan Praktek*. Jakarta: PT Rineka Cipta.
- Arikunto, S. (2018). *Dasar - Dasar Evaluasi Pendidikan Edisi 3*. Jakarta: Bumi Aksara.
- Arslan, S. (2012). The Influence of Environment Education on Critical Thinking and Environmental Attitude. *Procedia - Social and Behavioral Sciences*, 55, 902–909. <https://doi.org/10.1016/j.sbspro.2012.09.579>
- Astalini, A., Kurniawan, D. A., Perdana, R., & Kurniasari, D. (2018). Identification of Student Attitudes Toward Physics Learning at Batanghari District High School. *The Educational Review*, 2(9), 475–484. <https://doi.org/10.26855/er.2018.09.003>
- Ayu, D. (2017). *Pengaruh Asesmen Portofolio Elektronik Terhadap Penguasaan Konsep Dan Sikap Ilmiah Siswa Kelas XI Pada Mata Pelajaran Biologi Di Man 2 Bandar Lampung [skripsi]*. Lampung: Fakultas Tarbiyah dan Keguruan. Institut Agama Islam Negeri Raden Intan.
- Candrasekaran, S. (2014). Developing Scientific Attitude, Critical Thinking and Creative Intelligence of Higher Secondary School Biology Students by Applying Synectics Techniques. *International Journal of Humanities and Social Science Invention*, 3(6), 1–8.
- Changwong, K., Sukkamart, A., & Sisan, B. (2018). Critical Thinking Skill Development: Analysis of A New Learning Management Model for Thai High Schools. *Journal of International Studies*, 11(2), 37–48. <https://doi.org/10.14254/2071-8330.2018/11-2/3>
- Choy, S. C., & Oo, P. S. (2012). Reflective Thinking and Teaching Practices: A Precursor for Incorporating Critical Thinking Into The Classroom? *International Journal of Instruction*, 5(1), 167–182.
- Damanik, D. P., & Bukit, N. (2013). Analisis Kemampuan Berpikir Kritis dan Sikap Ilmiah pada Pembelajaran Fisika Menggunakan Model Pembelajaran Inquiry Training (IT) Dan Direct Instruction (DI). *Jurnal Pendidikan Fisika*, 2(1), 16–24.

- Dores, O. J., Wibowo, D. C., & Susanti, S. (2020). Analisis Kemampuan Berpikir Kritis Siswa pada Mata Pelajaran Matematika. *J-PiMat: Jurnal Pendidikan Matematika*, 2(2), 242–254.
- Duran, M., & Sendag, S. (2012). A Preliminary Investigation Into Critical Thinking Skills of Urban High School Students: Role of An IT/STEM Program. *Creative Education*, 03(02), 241–250. <https://doi.org/10.4236/ce.2012.32038>
- Ennis, Reeder Harry. (2011). The Nature of Critical Thinking: An Outline of Critical Thinking Dispositions and Abilities. *Informal Logic*, 6(2), 1–8. <https://doi.org/10.22329/il.v6i2.2729>
- Ennis, Robert H. (2016). Critical Thinking Across The Curriculum: A Vision. *Topoi*, 37(1), 165–184. <https://doi.org/10.1007/s11245-016-9401-4>
- Erdoğan, V. (2019). Integrating 4C Skills of 21st Century Into 4 Language Skills in EFL Classes. *International Journal of Education and Research*, 7(11), 113–124.
- Facione, P. (2015). *Critical Thinking: What It is and Why It Counts*. Measured Reasons LLC. <https://www.insightassessment.com/CT-Resources/Teaching-For-and-About-Critical-Thinking/Critical-Thinking-What-It-Is-and-Why-It-Counts/Critical-Thinking-What-It-Is-and-Why-It-Counts-PDF>
- Fathonah, D. I. (2020). Hubungan antara Sikap Ilmiah dengan Hasil Belajar Siswa Pada Mata Pelajaran Mikrobiologi Kesehatan Materi Pewarnaan Gram kelas X di SMK Kesehatan Pelita Husada [skripsi]. Bogor: Fakultas Keguruan dan Ilmu Pendidikan. Universitas Ibn Khaldun Bogor.
- Fitria, D. (2020). Hubungan Keterampilan Proses Sains dan Kemampuan Berpikir Kritis pada Materi Suhu dan Kalor. *Journal Evaluation in Education (JEE)*, 1(3), 83–90. <https://doi.org/10.37251/jee.v1i3.137>
- Hasnan, S. M., & Fitria, Y. (2020). Pengaruh Penggunaan Model Discovery Learning Dan Motivasi Terhadap Kemampuan Berpikir Kritis Peserta Didik Sekolah Dasar. *Jurnal Basicedu*, 4(2), 239–249.
- Henrlinier, D. (2023). Peningkatan Kemampuan Analisis dan Sikap Ilmiah Siswa Melalui Model Inkuiri Terbimbing Berbantuan Modul pada Konsep Struktur dan Fungsi Jaringan pada Manusia. *Berajah Journal: Jurnal Pembelajaran Dan Pengembangan Diri*, 3(1), 29–38.
- Indriani, C., Hidayat, S., & Astriani, M. (2023). Peningkatan Sikap Ilmiah Peserta Didik Melalui Model Discovery Learning Pada Materi Sistem Pernapasan Manusia. *Didaktika Biologi: Jurnal Penelitian Pendidikan Biologi*, 7(1), 1. <https://doi.org/10.32502/dikbio.v7i1.4479>
- Jamaludin, D. N. (2017). Pengaruh Pembelajaran Berbasis Proyek Terhadap Kemampuan Berpikir Kritis dan Sikap Ilmiah Pada Materi Tumbuhan Biji. *GENETIKA (Jurnal Tadris Biologi)*, 1(1), 19–41.

- Jeevanantham, L. S. (2005). Why Teach Critical Thinking? *Africa Education Review*, 2(1), 118–129. <https://doi.org/10.1080/18146620508566295>
- Kalelioğlu, F., & Gülbahar, Y. (2014). The Effect of Instructional Techniques on Critical Thinking and Critical Thinking Dispositions in Online Discussion. *Educational Technology & Society*, 17(1), 248–258.
- Karim, N. (2015). Kemampuan Berpikir Kritis Siswa dalam Pembelajaran dalam Pembelajaran Matematika dengan Menggunakan Model Jucama di Sekolah Menengah Pertama. *EDU-MAT: Jurnal Pendidikan Matematika*, 3(1). <https://doi.org/10.20527/edumat.v3i1.634>
- Khairawati, Rahayu, H. M., & Setiadi, A. E. (2018). Analisis Korelasi Sikap Ilmiah dan Prestasi Belajar Siswa di SMPN 3 Sungai Kakap. *Pena Kreatif: Jurnal Pendidikan*, 7(1), 52–61.
- Khan, M., & Siddiqui, M. A. (2020). Examining Scientific Attitude Scales in India: Development and Validation of a New Scale. *Interdisciplinary Journal of Environmental and Science Education*, 16(4), 1–13. <https://doi.org/10.29333/ijese/8557>
- Kristiani, N., Susilo, H., Rohman, F., & Aloysius, D. C. (2015). The Contribution of Students' Metacognitive Skills and Scientific Attitude Towards Their Academic Achievements in Biology Learning Implementing Thinking Empowerment by Questioning (TEQ) Learning Integrated with Inquiry Learning (TEQI). *International Journal of Educational Policy Research and Review*, 2(9), 113–120. <https://doi.org/http://dx.doi.org/10.15739/IJEPRR.020>
- Kurniawan, D., Suprpto, P. K., & Ali, M. (2022). Hubungan Kecerdasan Naturalis Dengan Kemampuan Berpikir Kritis Peserta Didik Pada Materi Pencemaran Lingkungan. *Jurnal Pendidikan Biologi*, 13(2), 105. <https://doi.org/10.17977/um052v13i2p105-112>
- Lai, E. R. (2011). Critical Thinking: A Literature Review Research Report. In *Pearson's Research Reports*. Pearson Publishing.
- Lestari, M. A. (2019). Hubungan Kemampuan Berpikir Kritis, Sikap Ilmiah Siswa Terhadap Hasil Belajar IPA Siswa yang Melaksanakan Pembelajaran Problem Based Learning di Kelas VIII SMP Negeri 1 Tarakan [skripsi]. Tarakan: Fakultas Keguruan dan Ilmu Pendidikan. Universitas Borneo Tarakan.
- Mutakinati, L., Anwari, I., & Yoshisuke, K. (2018). Analysis of Students' Critical Thinking Skill of Middle School Through Stem Education Project-Based Learning. In *Jurnal Pendidikan IPA Indonesia* (Vol. 7, Issue 1). <https://doi.org/10.15294/jpii.v7i1.10495>
- Nugraha, A. J., Suyitno, H., & Susilaningsih, E. (2017). Analisis Kemampuan Berpikir Kritis Ditinjau dari Keterampilan Proses Sains dan Motivasi Belajar melalui Model PBL Abstrak. *Journal of Primary Education*, 6(1), 35–43.

- Nugraha, Rosdianto, H., & Sulistri, E. (2022). Korelasi Antara Pemahaman Konsep Terhadap Kemampuan Berpikir Kritis Siswa SMA. *Jurnal Phi Jurnal Pendidikan Fisika Dan Fisika Terapan*, 3(3), 29. <https://doi.org/10.22373/p-jpft.v3i3.14843>
- Nuryanti, L., Zubaidah, S., & Diantoro, M. (2018). Analisis Kemampuan Berpikir Kritis Siswa SMP. *Jurnal Pendidikan: Teori, Penelitian, Dan Pengembangan*, 3(2), 155–158. <http://journal.um.ac.id/index.php/jptpp/>
- Omar, M. S., & Awang, M. I. (2021). The Relationship Between Attitude and Higher Order Thinking Skills (HOTS) Among Secondary School Students. *Turkish Journal of Computer and Mathematics Education*, 12(7), 82–90.
- Pasaribu, P. A., Tanjung, I. F., & Hartono, A. (2023). Scientific Attitude and Critical Thinking. *2nd Annual International Conference on Islamic Education for Students (AICOIES 2023)*, 569–576.
- Paul, R., & Elder, L. (2007). *The Miniature Guide to Critical Thinking Concepts and Tools* (4th ed.). Foundation for Critical Thinking Press. www.criticalthinking.org
- Pitafi, A. I., & Farooq, M. (2012). Measurement of Scientific Attitude of Secondary School Students in Pakistan. *Academic Research International*, 2(2), 379–392. www.savap.org.pk%5Cnwww.journals.savap.org.pk
- Putri, N. R., Miarsyah, M., & Vivanti, D. (2018). Hubungan Kecerdasan Naturalis dan Motivasi Belajar dengan Kemampuan Berpikir Kritis Peserta Didik pada Materi Pencemaran Lingkungan. *Florea: Jurnal Biologi Dan Pembelajarannya*, 5(2), 100. <https://doi.org/10.25273/florea.v5i2.3124>
- Putrianti, Hatibe, A., & Kade, A. (2017). Pengaruh Sikap Ilmiah dan Berpikir Kritis terhadap Pengetahuan Lingkungan Melalui Model Pembelajaran Kontekstual dengan Pendekatan SETS pada Siswa Kelas VII SMP Negeri 3 Palu. *Jurnal Riset Pendidikan MIPA*, 1(2), 63–74. <https://doi.org/10.22487/j25490192.2017.v1.i2.pp63-74>
- Putriningtyas, A., Muhlis, & Bachtiar, I. (2022). Perkembangan Kecenderungan Berpikir Kritis Siswa Pada Materi Biologi di MAN 2 Mataram. *Jurnal Ilmiah Profesi Pendidikan*, 7(3b), 1534–1542.
- Rahmawati, Y., Ridwan, A., Hadinugrahaningsih, T., & Soeprijanto. (2019). Developing Critical and Creative Thinking Skills Through STEAM Integration in Chemistry Learning. *Journal of Physics: Conference Series*, 1156(1), 1–7. <https://doi.org/10.1088/1742-6596/1156/1/012033>
- Revati, N., & Meera, D. K. P. (2017). An Investigation of Scientific Attitude Among Secondary School Students in Kottayam District of Kerala. *IOSR Journal of Research & Method in Education (IOSR-JRME)*, 07(01), 63–66. <https://doi.org/10.9790/7388-0701036366>

- Ristanto, R. H., Ahmad, A. S., & Komala, R. (2022). Critical Thinking Skills of Environmental Changes: A Biological Instruction Using Guided Discovery Learning-Argument Mapping (GDL-AM). *Participatory Educational Research*, 9(1), 173–191. <https://doi.org/10.17275/per.22.10.9.1>
- Ritonga, R. (2021). Hubungan Kemampuan Berpikir Kritis dan Sikap Ilmiah Siswa dengan Hasil Belajar IPA di Madrasah Ibtidaiyah Kota Batu [tesis]. Malang: Fakultas Ilmu Tarbiyah dan Keguruan. Universitas Islam Negeri Maulana Malik Ibrahim.
- Rizky, H., Sukmawati, D., & Rusdi, R. (2020). Excretory System Learning: What is The Relationship Between Critical Thinking Skills and Biology Learning Motivation? *Biosfer*, 13(2), 320–332. <https://doi.org/10.21009/biosferjpb.v13n2.320-332>
- Rosmaini. (2023). Analisis Faktor - Faktor yang Mempengaruhi Kemampuan Berpikir Kritis dalam Pembelajaran Matematika. *Edukatif: Jurnal Ilmu Pendidikan*, 5(2), 869–879.
- Saputra, R. D. A., Jufri, A. W., & Ramdani, A. (2019). Profil Literasi Sains Dasar dan Kecenderungan Berpikir Kritis Siswa SMP di Kabupaten Sumbawa Barat. *Jurnal Edukasi Sumba (JES)*, 3(2), 46–52.
- Sari, F. F. K., & Lahade, S. M. (2022). Pengaruh Model Pembelajaran Inkuiri terhadap Sikap Ilmiah Rasa Ingin Tahu Peserta Didik Sekolah Dasar pada Pembelajaran IPA. *Jurnal Basicedu*, 6(1), 797–802.
- Scott, L. A. (2017). 21st Century Skills Early Learning. *The Partnership for 21st Century Learning (P21)*, 20. http://static.battelleforkids.org/documents/p21/P21_ELF_Framework_Final_20pgs.pdf
- Shaheen, N. M., Naqeebul, M., & Kayani, M. M. (2017). Improving Students' Attitude Towards Biology as A School Subject: Do the Instructional Models Really Work? *Journal of Applied Environmental and Biological Sciences*, 7(1), 170–179. www.textroad.com
- Siregar, S. (2020). *Statistika Terapan: Untuk Perguruan Tinggi*. Jakarta: Kencana.
- Slamet, S., Walujo, D. A., & Sugito, S. (2019). The Improvement Critical Thinking Ability of Students Through Reciprocal Learning (Reciprocal Teaching) and Jigsaw Models in Biological Lesson in Parlaungan Islamic High School and Al-Muslim High School. *Bioedukasi*, 17(2), 92. <https://doi.org/10.19184/bioedu.v17i2.15056>
- Sugiyono. (2013). *Metode Penelitian Pendidikan Pendekatan Kualitatif, Kuantitatif dan R&D*. Bandung: Alfabeta.
- Suryawati, E., & Osman, K. (2018). Contextual Learning: Innovative Approach Towards The Development of Students' Scientific Attitude and Natural

Science Performance. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(1), 61–76. <https://doi.org/10.12973/ejmste/79329>

Syahmel, S., & Jumadi, J. (2019). Discovery Learning Using Multiple Representation Model for Enhancing Scientific Processing and Critical Thinking Skills of the Students. *Jurnal Inovasi Pendidikan IPA*, 5(2), 180–194. <https://doi.org/10.21831/jipi.v5i2.26704>

Syamsuddin, A., Irfandi, & Bundu, P. (2019). Analyzing The Effect Of Society Technology Science Approach Toward Student Scientific Attitudes For 5th Grade Elementary School In Science Learning. *Jurnal Penelitian Pendidikan IPA*, 4(2), 64–69.

Usmeldi, Amini, R., & Trisna, S. (2017). The Development of Research-Based Learning Model with Science, Environment, Technology, and Society Approaches to Improve Critical Thinking of Students. *Jurnal Pendidikan IPA Indonesia*, 6(2), 318–325. <https://doi.org/10.15294/jpii.v6i2.10680>

Uswatun, D. A., & Rohaeti, E. (2015). Perangkat Pembelajaran IPA Berbasis Inkuiri Untuk Meningkatkan Critical Thinking Skills dan Scientific Attitude Siswa. *Jurnal Inovasi Pendidikan IPA*, 1(2), 138. <https://doi.org/10.21831/jipi.v1i2.7498>

Widyapuraya, N. W., Suryana, A. L., Suyanta, S., & Wilujeng, I. (2023). Profil Keterampilan Berpikir Kritis Siswa SMP Negeri 1 Juwangi pada Pembelajaran IPA. *Jurnal Penelitian Pendidikan IPA*, 9(3), 1368–1374. <https://doi.org/10.29303/jppipa.v9i3.1723>

Wildan, W., Hakim, A., Siahaan, J., & Anwar, Y. A. S. (2019). A Stepwise Inquiry Approach to Improving Communication Skills and Scientific Attitudes on A Biochemistry Course. *International Journal of Instruction*, 12(4), 407–422. <https://doi.org/10.29333/iji.2019.12427a>

Wiwin, E., & Kustijono, R. (2018). The Use of Physics Practicum to Train Science Process Skills and Its Effect on Scientific Attitude of Vocational High School Students. *Journal of Physics: Conference Series*, 997(1). <https://doi.org/10.1088/1742-6596/997/1/012040>

Yuliatin, B. H., Purwoko, A. A., Muntari, & Mutiah. (2021). The Relationship Between Scientific Attitude and Creative Thinking Skill in Chemistry Education Students at University of Mataram. *Chemistry Education Practice*, 4(3). <https://doi.org/10.29303/cep.v4i3.2733>