

## DAFTAR RUJUKAN

- Abubakar, R. (2021). *Pengantar Metodologi Penelitian*. Yogyakarta: SUKA-Press.
- Agustina, D. K. (2021). Hakikat dan Pembelajaran IPA. In A. Setiawan (Ed.), *IPA untuk PGSD/PGMI* (pp. 1–10). Yogyakarta: Nuta Media.
- Aiken, L. R. (1980). Content Validity and Reliability of Single Items or Questionnaires. *Educational and Psychological Measurement*, 40(4), 955–959. <https://doi.org/10.1177/001316448004000419>
- Akin, U. S., & Arslantekin, B. A. (2017). Correlated-Features Sequence and Cognitive Strategy Education Based on Direct Instruction Model in Math Skills of Students with Special Needs. *The Online Journal of New Horizons in Education*, 7(1), 37–46. <https://www.tojcam.net/journals/tojned/articles/v07i01/v07i01-06.pdf>
- Alani, F. (2020). Development of Case-Based Learning (CBL) in Engineering Technology Education. *International Journal of Engineering Education*, 36(3), 896–900. [https://www.ijee.ie/latestissues/Vol36-3/08\\_ijee3920.pdf](https://www.ijee.ie/latestissues/Vol36-3/08_ijee3920.pdf)
- Alfianti, A., Kuswanto, H., Rahmat, A. D., & Nurdiyanto, R. (2023). Development of DICTY-AR Integrated Local Wisdom to Improve Multiple Representation and Problem-Solving Skills. *International Journal of Information and Education Technology*, 13(9), 1383–1390. <https://doi.org/10.18178/ijiet.2023.13.9.1941>
- Ali, M., Han, S. C., Bilal, H. S. M., Lee, S., Kang, M. J. Y., Kang, B. H., Razzaq, M. A., & Amin, M. B. (2018). iCBLs: An Interactive Case-Based Learning System for Medical Education. *International Journal of Medical Informatics*, 109(November 2017), 55–69. <https://doi.org/10.1016/j.ijmedinf.2017.11.004>
- Aligula, G. K., Kok, C. K., & Sim, H. K. (2017). Driving Quality in Product Development in a Malaysian Optoelectronic Firm. *International Journal of Lean Six Sigma*, 8(4), 482–498. <https://doi.org/10.1108/IJLSS-06-2016-0026>
- Alnajjar, E. A. M. (2021). Obstacles of Teaching Science in Saudi Universities and the Proposed Solutions during the COVID-19. *Higher Education Studies*, 11(1), 65. <https://doi.org/10.5539/hes.v11n1p65>
- Altawalbeh, K., & Al-Ajlouni, A. (2022). The Impact of Distance Learning on Science Education during the Pandemic. *International Journal of Technology in Education*, 5(1), 43–66. <https://doi.org/10.46328/ijte.195>
- Amalia, T. & Suryaningtyas, W. (2023). Effectiveness Implementation of Gagne's Learning Theory with Combination Problem-Solving Approach to Ability Think Critical Student. *Mathematics Education Journal*, 7(1), 31–46. <https://doi.org/10.22219/mej.v7i1.24117>
- Andriana, E., Syachruroji, A., Alamsyah, T. P., & Sumirat, F. (2017). Natural Science Big Book with Baduy Local Wisdom Base Media Development for

- Elementary School. *Jurnal Pendidikan IPA Indonesia*, 6(1), 76–80. <https://doi.org/10.15294/jpii.v6i1.8674>
- Arends, R. I. (2012). *Learning to Teach* (Ninth edit). New York: McGraw-Hill.
- Arghode, V., Brieger, E., & Wang, J. (2018). Engaging Instructional Design and Instructor Role in Online Learning Environment. *European Journal of Training and Development*, 42(7–8), 366–380. <https://doi.org/10.1108/EJTD-12-2017-0110>
- Arif, M. A., Jubaidah, S., Fitriah, L., & Yahya, F. (2023). Development of Heat and Temperature E-Module Containing Local Wisdom in South Kalimantan. *Journal of Mathematics, Science, and Computer Education (JMSCEdu)*, 3(2), 62–71. <https://doi.org/10.20527/jmscedu.v3i2.10250>
- Asih, F. E., Poedjiastoeti, S., Lutfi, A., & Novita, D. (2022). The Practicality and Effectiveness of Case Study-Based Module on Chemical Thermodynamics Course (Ideal and Real Gases) as Learning Tool During The Covid-19 Pandemic. *Journal of Technology and Science Education*, 12(2), 466–483. <https://doi.org/10.3926/jotse.1654>
- Astuti, N. H., Rusilowati, A., Subali, B., & Marwoto, P. (2020). Analisis Kemampuan Pemecahan Masalah Model Polya Materi Getaran, Gelombang, dan Bunyi Siswa SMP Nurul. *Unnes Physics Education Journal*, 9(1), 1–8. <https://doi.org/10.15294/upej.v9i1.38274>
- Bi, M., Zhao, Z., Yang, J., & Wang, Y. (2019). Comparison of Case-Based Learning and Traditional Method in Teaching Postgraduate Students of Medical Oncology. *Medical Teacher*, 41(10), 1124–1128. <https://doi.org/10.1080/0142159X.2019.1617414>
- Borg, W. R., & Gall, M. D. (1983). *Educational Research: An Introduction*. New York: Longman.
- Branch, R. M. (2009). Instructional Design: The ADDIE Approach. In *Department of Educational Psychology and Instructional Technology University of Georgia*. Springer New York Dordrecht Heidelberg London. <https://doi.org/10.1007/978-0-387-09506-6>
- Brieger, E., Arghode, V., & McLean, G. (2020). Connecting Theory and Practice: Reviewing Six Learning Theories to Inform Online Instruction. *European Journal of Training and Development*, 44(4–5), 321–339. <https://doi.org/10.1108/EJTD-07-2019-0116>
- Candiasa, I M. (2010). *Pengujian Instrumen Penelitian Disertai Aplikasi ITEMAN dan BIGSTEPS*. Singaraja: Unit Penerbitan Universitas Pendidikan Ganesha.
- Candiasa, I. M. (2020). *Analisis Data dengan Statistik Multivariat*. Singaraja: Undiksha Press.
- Çetin, A. (2020). Examining Project-Based STEM Training in a Primary School. *International Online Journal of Education and Teaching*, 7(3), 811–825. <https://files.eric.ed.gov/fulltext/EJ1258419.pdf>

- Çetin, E., & Solmaz, E. (2020). Gamifying the 9 Events of Instruction with Different Interactive Response Systems: The Views of Social Sciences Teacher Candidates. *Malaysian Online Journal of Educational Technology*, 8(2), 1–15. <https://doi.org/10.17220/mojet.2020.02.001>
- Çimen, Ş. S. (2021). Use of The Case-Based Method in Getting Prepared for Young Learners' EFL Classes. *International Journal of Curriculum and Instruction*, 13(2), 1465. <https://files.eric.ed.gov/fulltext/EJ1292475.pdf>
- Cobern, W. W., Schuster, D., Adams, B., Applegate, B., Skjold, B., Undreiu, A., Loving, C. C., & Gobert, J. D. (2010). Experimental Comparison of Inquiry and Direct Instruction in Science. *Research in Science and Technological Education*, 28(1), 81–96. <https://doi.org/10.1080/02635140903513599>
- Cohen, L., Manion, L., & Morrison, K. (2018). *Research Methods in Education* (Eighth Edi). New York: Routledge.
- Costa, A. L. (1991). Developing Minds: A Resource Book for Teaching Thinking. In *Association for Supervision and Curriculum Development, Alexandria, Va.* (Revised Ed). Association for Supervision and Curriculum Development, Alexandria, Va. <https://doi.org/10.4324/9781315623511>
- Creswell, J. W. (2012). *Educational Research* (Fourth Edi). Lincoln: University of Nebraska.
- Dantes, N. (2021). *Asesmen dan Evaluasi Pembelajaran*. Singaraja: Undiksha Press.
- Dewi, S. P., Zen, D., & Haryani, M. E. (2019). Prior Knowledge Mapping on Teacher Candidates for Reproductive System Material in UNSRI. *Journal of Biology Education*, 8(1), 117–125. <https://doi.org/10.15294/jbe.v8i1.27304>
- Egne, R. M. (2022). Pedagogical Science Practices in Public Higher Education Institutions of Ethiopia: Progress Made but Challenges Remain. *Athens Journal of Education*, 9(2), 303–324. <https://doi.org/10.30958/AJE.9-2-7>
- Eliyasni, R., Habibi, M., Rahmatina, & Azima, N. F. (2021). E-Module Flipbook Model for Designing E-Learning Materials in Higher Education. *Proceedings of the 2nd Progress in Social Science, Humanities and Education Research Symposium (PSSHERS 2020)*, 563(Psshers 2020), 17–23. <https://doi.org/10.2991/assehr.k.210618.004>
- Endres, T., Lovell, O., Morkunas, D., Rieß, W., & Renkl, A. (2023). Can Prior Knowledge Increase Task Complexity? – Cases in Which Higher Prior Knowledge Leads to Higher Intrinsic Cognitive Load. *British Journal of Educational Psychology*, 93(S2), 305–317. <https://doi.org/10.1111/bjep.12563>
- Esanu, A. (2015). The Significance of Prior Knowledge in Physics Learning. *The 11 Th International Scientific Conference ELearning and Software for Education, December*, 1–6. <https://doi.org/10.12753/2066-026X-15-00>
- Facione, P. A. (2011). Critical Thinking : What It Is and Why It Counts. *Insight Assessment*, 1(1), 1–23. <https://www.law.uh.edu/blakely/advocacy->

survey/Critical%20Thinking%20Skills.pdf

- Fadli, A., & Irwanto. (2020). The Effect of Local Wisdom-Based ELSII Learning Model on the Problem Solving and Communication Skills of Pre-Service Islamic Teachers. *International Journal of Instruction*, 13(1), 731–746. <https://doi.org/10.29333/iji.2020.13147a>
- Field, A. (2018). *Discovering Statistics Using IBM SPSS Statistics* (J. Seaman (ed.); 5th Editio, Issue september 2016). New Delhi: SAGE Publications Ltd.
- Fraenkel, J. R. & Wallen, N. E. (1993). *How to Design and Evaluate Research in Education*. Second edition. New McGraw-Hill, INC.
- Fromke, E. J., Jordan, S. G., & Awan, O. A. (2022). Case-based Learning: Its Importance in Medical Student Education. *Academic Radiology*, 29(8), 1284–1286. <https://doi.org/10.1016/j.acra.2021.09.028>
- Gholami, M., Changae, F., Karami, K., Shahsavaripour, Z., Veiskaramian, A., & Birjandi, M. (2021). Effects of Multiepisode Case-Based Learning (CBL) on Problem-Solving Ability and Learning Motivation of Nursing Students in an Emergency Care Course. *Journal of Professional Nursing*, 37(3), 612–619. <https://doi.org/10.1016/j.profnurs.2021.02.010>
- Gregory, R. J. (2000). *Psychology Testing History: Principles and Application*. Singapore: Allyn & Bacon.
- Hadi, W. P. (2019). Identifikasi Kemampuan Pemecahan Masalah Mahasiswa Calon Guru IPA Pada Penyelesaian Soal Titrasi. *Jurnal Pembelajaran Kimia*, 4(2), 100–105. <https://doi.org/10.17977/um026v4i22019p100>
- Hake, R. R. (1999). Analyzing Change/Gain Scores. *Dept. of Physics Indiana University*. <https://web.physics.indiana.edu/sdi/AnalyzingChange-Gain.pdf>
- Hartini, S., Firdausi, S., Misbah, & Sulaeman, N. F. (2018). The Development of Physics Teaching Materials Based on Local Wisdom to Train Saraba Kawa Characters. *Jurnal Pendidikan IPA Indonesia*, 7(2), 130–137. <https://doi.org/10.15294/jpii.v7i2.14249>
- Hastuti, P. W., Setianingsih, W., & Anjarsari, P. (2020). How to Develop Students' Scientific Literacy Through Integration of Local Wisdom in Yogyakarta on Science Learning? *Journal of Physics: Conference Series*, 1440(1). <https://doi.org/10.1088/1742-6596/1440/1/012108>
- Hattan, C., & Alexander, P. A. (2020). Prior Knowledge and Its Activation in Elementary Classroom Discourse. *Reading and Writing*, 33(6), 1617–1647. <https://doi.org/10.1007/s11145-020-10022-8>
- HDPGSDI. (2020). *Capaian Pembelajaran Sarjana Program Sarjana Pendidikan Guru Sekolah Dasar, Program Pendidikan Profesi Guru SD, Program Magister Pendidikan Dasar, Program Doktor Pendidikan Dasar*. Semarang: Himpunan Dosen PGSD Indonesia
- Heller, P., Keith, R., & Anderson, S. (1992). Teaching Problem Solving Through Cooperative Grouping. Part 1: Group Versus Individual Problem Solving.

- American Journal of Physics*, 60(7), 627–636. <https://doi.org/10.1119/1.17117>
- Helleve, I., Eide, L., & Ulvik, M. (2021). Case-Based Teacher Education Preparing for Diagnostic Judgement. *European Journal of Teacher Education*, 00(00), 1–17. <https://doi.org/10.1080/02619768.2021.1900112>
- Hidayati, N. A., Waluyo, H. J., Winarni, R., & Suyitno. (2020). Exploring the Implementation of Local Wisdom-Based Character Education Among Indonesian Higher Education Students. *International Journal of Instruction*, 13(2), 179–198. <https://doi.org/10.29333/iji.2020.13213a>
- Ichsan, I. Z., Purwanto, A., & Rahmayanti, H. (2021). Hots And E-Learning Of Diploma And Undergraduate: Ilmizi Model For Environmental Disaster Mitigation Education During New Normal Covid-19. *Journal of Sustainability Science and Management*, 16(4), 1–11. <https://doi.org/10.46754/JSSM.2021.06.001>
- Ilhami, A., Riandi, R., & Sriyati, S. (2019). Implementation of Science Learning with Local Wisdom Approach Toward Environmental Literacy. *Journal of Physics: Conference Series*, 1157(2). <https://doi.org/10.1088/1742-6596/1157/2/022030>
- Irwanto, Rohaeti, E., & Prodjosantoso, A. K. (2019). Analyzing the Relationships Between Pre-Service Chemistry Teachers' Science Process Skills and Critical Thinking Skills. *Journal of Turkish Science Education*, 16(3), 299–313. <https://doi.org/10.12973/tused.10283a>
- Kanhadilok, S., Punsumreang, T., & Malai, C. (2019). A Design of Case Based Learning for Promoting Learning Outcomes in Practicum. *Songklanagarind Journal of Nursing*, 39(4), 129–137. <https://he02.tci-thaijo.org/index.php/nur-psu/article/view/233385>
- Kantar, L. D. (2013). Demystifying Instructional Innovation: The Case of Teaching with Case Studies. *Journal of the Scholarship of Teaching and Learning*, 13(2), 413–417. <https://scholarworks.iu.edu/journals/index.php/josotl/article/view/3217/3393>
- Kantar, L. D., & Sailian, S. (2018). The Effect of Instruction on Learning: Case Based Versus Lecture Based. *Teaching and Learning in Nursing*, 13(4), 207–211. <https://doi.org/10.1016/j.teln.2018.05.002>
- Khraiwesh, M. (2014). Process and Product Quality Assurance Measures in CMMI. *International Journal of Computer Science & Engineering Survey*, 5(3), 1–15. <https://doi.org/10.5121/ijcses.2014.5301>
- Knowles, M. S. (1980). *The Modern Practice of Adult Education*. New York: Cambridge Adult Education. <https://doi.org/10.7312/kepp90968-001>
- Knowles, M. S., Holton, E. F., & Swanson, R. A. (2005). *The Adult Learner* (Sixth Edit). California: Elsevier Butterworth Heinemann. <https://doi.org/10.4324/9780080481913>

- Koehler, A. A., Fiock, H., Janakiraman, S., Cheng, Z., & Wang, H. (2020). Asynchronous Online Discussions During Case-Based Learning: A Problem-Solving Process. *Online Learning Journal*, 24(4), 64–92. <https://doi.org/10.24059/olj.v24i4.2332>
- Koyan, I. W. (2011). *Asesmen dalam Pendidikan*. Singaraja: Universitas Pendidikan Ganesha Press.
- Kumala, F. N., & Setiawan, D. A. (2019). Local Wisdom-Based e-Encyclopedia as a Science Learning Medium in Elementary School. *Journal of Physics: Conference Series*, 1402(6). <https://doi.org/10.1088/1742-6596/1402/6/066061>
- Kumar, D. (2013). *Methodology of Educational Research and Statistics*. New Delhi: Laxmi Publications (P) LTD.
- Kurniawati, A. A., Wahyuni, S., & Putra, P. D. A. (2017). Utilizing of Comic and Jember's Local Wisdom as Integrated Science Learning Materials. *International Journal of Social Science and Humanity*, 7(1), 47–50. <https://doi.org/10.18178/ijssh.2017.7.1.793>
- Laila, S. N., Lestariningsih, N., & Rohmadi, M. (2022). Development of Discovery Learning-Based e-Module in Islamic-Integrated Protist Subject in Madrasah Aliyah. *JPBIO (Jurnal Pendidikan Biologi)*, 7(1), 123–136. <https://doi.org/10.31932/jpbio.v7i1.1616>
- Lassoued, Z., Alhendawi, M., & Bashitialshaer, R. (2020). An Exploratory Study of the Obstacles for Achieving Quality in Distance Learning during the COVID-19 Pandemic. *Education Sciences*, 10(9), 1–13. <https://doi.org/10.3390/educsci10090232>
- Li, S., Ye, X., & Chen, W. (2019). Practice and Effectiveness of “Nursing Case-Based Learning” Course on Nursing Student's Critical Thinking Ability: A Comparative Study. *Nurse Education in Practice*, 36(759), 91–96. <https://doi.org/10.1016/j.nepr.2019.03.007>
- Ma, C., & Zhou, W. (2022). Effects of Unfolding Case-Based Learning on Academic Achievement, Critical Thinking, and Self-Confidence in Undergraduate Nursing Students Learning Health Assessment Skills. *Nurse Education in Practice*, 60, 103321. <https://doi.org/10.1016/j.nepr.2022.103321>
- Machin, A. (2018). Bodies of Knowledge and Knowledge of Bodies: “We Can Know More Than We Can Tell.” *Epistemology & Philosophy of Science*, 55(4), 84–97. <https://doi.org/10.5840/eps201855470>
- Major, C., Burnham, K. D., Brown, K. A., Lambert, C. D., Nordeen, J. M., & Takaki, L. A. K. (2021). Evaluation of an Online Case-Based Learning Module that Integrates Basic and Clinical Sciences. *Journal of Chiropractic Education*, 35(2), 192–198. <https://doi.org/10.7899/JCE-20-3>
- Maksum, H., & Purwanto, W. (2022). The Development of Electronic Teaching Module for Implementation of Project-Based Learning during the Pandemic.

- International Journal of Education in Mathematics, Science and Technology*, 10(2), 293–307. <https://doi.org/10.46328/ijemst.2247>
- McNeill, L., & Fitch, D. (2023). Microlearning through the Lens of Gagne's Nine Events of Instruction: A Qualitative Study. *TechTrends*, 67(3), 521–533. <https://doi.org/10.1007/s11528-022-00805-x>
- Merriam, S. B. (2001). Andragogy and Self-Directed Learning: Pillars of Adult Learning Theory. *Androgogy and Self-Directed Learning*, 2001(89), 3–14. <https://doi.org/10.1002/ace.3>
- Mishra, K., Bukavina, L., Arora, H., & Campbell, S. C. (2020). Quantitative Assessment of a Case Based Digital Learning Curriculum for Testicular Cancer. *Urology*, 135, 28–31. <https://doi.org/10.1016/j.urology.2019.10.002>
- Montgomery, D. C. (2001). *Design and Analysis of Experiment* (Fifth Edit). New York: John Wiley & Sons.
- Morrell, P. D., & Popejoy, K. (2014). Nature of Science. *A Few of Our Favorite Things*, 31–62. [https://doi.org/10.1007/978-94-6209-779-7\\_2](https://doi.org/10.1007/978-94-6209-779-7_2)
- Mukuni, K. K. (2020). Developing Guidelines for Using Video to Teach Procedural Skills in an Online Learning Environment Based on Gagné's Nine Events of Instruction [The Virginia Polytechnic Institute and State University]. In *The Virginia Polytechnic Institute and State University*. <https://doi.org/10.4135/9781483346397.n225>
- Njatrijani, R. (2018). Kearifan Lokal dalam Perspektif Budaya Kota Semarang. *Gema Keadilan*, 5(1), 16–31. <https://doi.org/10.14710/gk.2018.3580>
- Nurwijayanti, A., Budiyo, & Fitriana, L. (2019). Combining Google Sketchup and Ispring Suite 8 : A Breakthrough to Develop Geometry Learning Media. *Journal on Mathematics Education*, 10(1), 103–116. <https://doi.org/10.22342/jme.10.1.5380.103-116>
- Pandey, D. S. (2020). Implementing Gagne's Events of Instruction in MBA Classroom: Reflections and Reporting. *International Journal of Management Research and Social Science*, 7(3), 56–61. <https://doi.org/10.30726/ijmrss/v7.i3.2020.73011>
- Panggabean, F. T. M., Silitonga, P. M., & Sinaga, M. (2021). Development of Biochemistry e-Module to Improve Students' Higher Order Thinking Skills. *Proceedings of the 6th Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2021)*, 591(Aisteel), 700–704. <https://doi.org/10.2991/assehr.k.211110.166>
- Penyusun, T. (2021). Naskah Akademik Penyelarasan Kurikulum Jurusan Dharma Acarya Program Studi Pendidikan Guru Sekolah Dasar Sekolah Tinggi Agama Hindu Negeri Mpu Kuturan Singaraja. Singaraja: Prodi PGSD Jurusan Dharma Acarya STAHN Mpu Kuturan Singaraja
- Peraturan Menteri Pendidikan dan Kebudayaan Nomor 3 Tahun 2020 tentang Standar Nasional Pendidikan Tinggi*. (2020). Jakarta: Kementerian Pendidikan dan Kebudayaan RI

- Peraturan Presiden Republik Indonesia Nomor 8 Tahun 2012 tentang Kerangka Kualifikasi Nasional Indonesia.* (2012). Jakarta: Kementerian Sekretariat Negara RI
- Polya, G. (1978). *How to Solve it: A New Aspect of Mathematical Method* (Second Edi). New York: Doubleday & Company, Inc.
- Polya, G. (2004). *How to Slove It: A New Aspect of Mathematical Method*. New York: Princeton University Press.
- Puchumni, P., Tungpradabkul, S., & Magee, R. (2019). Using Information Retrieval Activities to Foster Analytical Thinking Skills in Higher Education in Thailand: A Case Study of Local Wisdom Education. *Asian Journal of Education and Training*, 5(1), 80–85. <https://doi.org/10.20448/journal.522.2019.51.80.85>
- Pujiastuti, H., Suvati, D. A., Haryadi, R., & Marethi, I. (2020). Development of Mathmodule Based on Local Wisdom and 21st Century Skills: Linear Equation System. *Journal of Physics: Conference Series*, 1480(1). <https://doi.org/10.1088/1742-6596/1480/1/012052>
- Purwono, U. (2008). *Standar Penilaian Buku Pelajaran*. Jakarta: BSNP.
- Rahmawati, D., Vahlia, I., Mustika, M., Yunarti, T., & Nurhanurawati, N. (2022). Validity Analysis of Development of Socrates-Based Linear Aljebra E-Modules. *Education Quarterly Reviews*, 5(2). <https://doi.org/10.31014/aior.1993.05.02.495>
- Ramadhani, S. P. (2019). *Konsep Dasar IPA*. Depok: Yayasan Yiesa Rich.
- Ramdani, A., Jufri, A. W., Gunawan, Fahrurrozi, M., & Yustiqvar, M. (2021). Analysis of Students' Critical Thinking Skills in Terms of Gender Using Science Teaching Materials Based on The 5E Learning Cycle Integrated With Local Wisdom. *Jurnal Pendidikan IPA Indonesia*, 10(2), 187–199. <https://doi.org/10.15294/jpii.v10i2.29956>
- Rosenshine, B. (2008). Five Meanings of Direct Instruction. *Center on Innovation & Improvement, Lincoln*, 1–10. <http://www.centerii.org/search/Resources/FiveDirectInstruct.pdf>
- Rusmansyah, Yuanita, L., Ibrahim, M., Isnawati, & Prahani, B. K. (2019). Innovative Chemistry Learning Model: Improving The Critical Thinking Skill and Self-Efficacy of Pre-Service Chemistry Teachers. *Journal of Technology and Science Education*, 9(1), 59–76. <https://doi.org/10.3926/jotse.555>
- Sadaf, A., & Kim, S. (2019). Examining the Impact of Online Case-Based Discussions on Students' Perceived Cognitive Presence, Learning and Satisfaction. *16th International Conference on Cognition and Exploratory Learning in Digital Age, CELDA 2019, Celda*, 421–424. [https://doi.org/10.33965/celda2019\\_201911c055](https://doi.org/10.33965/celda2019_201911c055)
- Safitri, A., Permata, M. D., & Wilujeng, I. (2021). The Effect of Using the E-Module Assisted by the Kvisoft Flipbook Maker in Improving Student's



- Critical Thinking Skills During the Covid-19 Pandemic. *Proceedings of the 6th International Seminar on Science Education (ISSE 2020)*, 541(Isse 2020), 545–551. <https://doi.org/10.2991/assehr.k.210326.078>
- Saleewong, D., Suwannathachote, P., & Kuhakran, S. (2012). Case-Based Learning on Web in Higher Education: A Review of Empirical Research. *Creative Education*, 03(08), 31–34. <https://doi.org/10.4236/ce.2012.38b007>
- Samo, D. D., Darhim, & Kartasasmita, B. G. (2018). Culture-Based Contextual Learning to Increase Problem-Solving Ability of First Year University Student. *Journal on Mathematics Education*, 9(1), 81–93. <https://doi.org/10.22342/jme.9.1.4125.81-94>
- Sapeni, M. A. A. R., & Said, S. (2020). The Effectiveness of Case-Based Learning in Increasing Critical Thinking of Nursing Students: A Literature Review. *Enfermeria Clinica*, 30, 182–185. <https://doi.org/10.1016/j.enfcli.2019.07.073>
- Sari, F., & Anam, K. (2022). Implementation of Gagne's Nine Events on Islamic Education Subjects at SDN Tamansari 03 Wuluhan Jember. *Journal of Scientific Research, Education, and Technology (JSRET)*, 1(2), 109–118. <https://doi.org/10.58526/jsret.v1i2.19>
- Selvi, K. (2022). Problematic Factors on Students' Learning in Higher Education. *Psycho-Educational Research Reviews*, 11(1), 209–226. [https://doi.org/10.52963/PERR\\_Biruni\\_V11.N1.13](https://doi.org/10.52963/PERR_Biruni_V11.N1.13)
- Sethi, R. (2000). New Product Quality and Product Development Teams. *Journal of Marketing*, 64(April), 1–14. <https://doi.org/10.1509/jmkg.64.2.1.17999>
- Setiawan, B., Innatesari, D. K., Sabtiawan, W. B., & Sudarmin, S. (2017). The Development of Local Wisdom-Based Natural Science Module to Improve Science Literation of Students. *Jurnal Pendidikan IPA Indonesia*, 6(1), 49–54. <https://doi.org/10.15294/jpii.v6i1.9595>
- Sharma, J. R., & Rawani, A. M. (2006). Customer Driven Product Development Through Quality Function Development (QFD). *Asia Pacific Business Review*, 2(1), 45–54. <https://doi.org/10.1177/097324700600200105>
- Shing, Y. L., & Brod, G. (2016). Effects of Prior Knowledge on Memory: Implications for Education. *Mind, Brain, and Education*, 10(3), 153–161. <https://doi.org/10.1111/mbe.12110>
- Sholihah, N., Wilujeng, I., & Purwanti, S. (2020). Development of Android-Based Learning Media on Light Reflection Material to Improve The Critical Thinking Skill of High School Students. *Journal of Physics: Conference Series*, 1440(1), 0–6. <https://doi.org/10.1088/1742-6596/1440/1/012034>
- Sinelnikova, V., Ivchenko, T., Pistunova, T., Regesha, N., & Skazhenyk, M. (2022). Enhancing the Performance of Andragogic Education. *Journal of Curriculum and Teaching*, 11(1), 245–254. <https://doi.org/10.5430/jct.v11n1p245>

- Siyoto, S., & Sodik, M. A. (2015). *Dasar Metodologi Penelitian*. Yogyakarta: Literasi Media Publishing.
- Sofyan, H., Anggereini, E., & Saadiah, J. (2019). Development of E-Modules Based on Local Wisdom in Central Learning Model at Kindergartens in Jambi City. *European Journal of Educational Research*, 8(4), 1137–1143. <https://doi.org/10.12973/eu-jer.8.4.1137>
- Suardana, I. N., Redhana, I. W., Sudiarmika, A. A. I. A. R., & Selamat, I. N. (2018). Students' Critical Thinking Skills in Chemistry Learning Using Local Culture-Based 7E Learning Cycle Model. *International Journal of Instruction*, 11(2), 399–412. <https://doi.org/10.12973/iji.2018.11227a>
- Suastra, I. W., & Arjana, I. G. (2021). Scientific Approach-Integrated Local Wisdom Content. *Proceedings of the 5th Asian Education Symposium 2020 (AES 2020)*, 566(Aes 2020), 463–468. <https://doi.org/10.2991/assehr.k.210715.095>
- Subagia, I. W. (2020). Roles Model of Teachers in Facilitating Students Learning Viewed from Constructivist Theories of Learning. *Journal of Physics: Conference Series*, 1503(1). <https://doi.org/10.1088/1742-6596/1503/1/012051>
- Sugiyono. (2009). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R & D*. Bandung: Alfabeta.
- Sukmadinata, N. S. (2008). *Metode Penelitian Pendidikan*. Bandung: Remaja Rosdakarya.
- Suma, K., Pujani, N. M., & Yunithasari, N. P. M. (2022). Blended Learning for Developing Problem-solving Skill, Learning Motivation, and Student Engagement in Mathematical Physics II Course During the COVID-19 Pandemic. *KnE Social Sciences*, 46–59. <https://doi.org/10.18502/kss.v7i10.11208>
- Suma, K., Sadia, I. W., & Pujani, N. M. (2018). The Identification of The 11th Grade Students' Prior Knowledge of Electricity Concepts. *Journal of Physics: Conference Series*, 1040(1). <https://doi.org/10.1088/1742-6596/1040/1/012038>
- Suma, K., Suwindra, I. N. ., & Sujanem, R. (2020). The Effectiveness of Blended Learning in Increasing Prospective Physics Teacher Students' Learning Motivation and Problem-Solving Ability. *JPI (Jurnal Pendidikan Indonesia)*, 9(3), 436. <https://doi.org/10.23887/jpi-undiksha.v9i3.21947>
- Sumardjoko, B., & Musyiam, M. (2018). Model of Civic Education Learning Based on The Local Wisdom for Revitalizing Values of Pancasila. *Cakrawala Pendidikan*, 37(2), 201–211. <https://doi.org/10.21831/cp.v37i2.18037>
- Sumarmi, Bachri, S., Irawan, L. Y., & Aliman, M. (2021). E-module in Blended Learning: Its Impact on Students' Disaster Preparedness and Innovation in Developing Learning Media. *International Journal of Instruction*, 14(4),

- 187–208. <https://doi.org/10.29333/iji.2021.14412a>
- Suprpto, N., Prahani, B. K., & Cheng, T. H. (2021). Indonesian Curriculum Reform in Policy and Local Wisdom: Perspectives from Science Education. *Jurnal Pendidikan IPA Indonesia*, *10*(1), 69–80. <https://doi.org/10.15294/jpii.v10i1.28438>
- Syawaludin, A., Gunarhadi, & Rintayati, P. (2019). Development of Augmented Reality- Based Interactive Multimedia to Improve Critical Thinking Skills in Science Learning. *International Journal of Instruction*, *12*(4), 331–344. <https://doi.org/10.29333/iji.2019.12421a>
- Tezcan, F. (2022). Andragogy or Pedagogy: Views of Young Adults on the Learning Environment. *International Education Studies*, *15*(1), 136. <https://doi.org/10.5539/ies.v15n1p136>
- Thana, P. M., Nur'aini, K. D., & Suryani, D. R. (2023). Development of Interactive E-Module Based on Papuan Local Wisdom on Basic Mathematics Course. *Technium Social Sciences Journal*, *49*(Special issue), 457–562. <https://doi.org/10.47577/tssj.v49i1.9841>
- Trianto. (2010). *Mendesain Model Pembelajaran Inovatif, Progresif, Konsep, Landasan, dan Implementasinya Pada Kurikulum Tingkat Satuan Pendidikan (KTSP)*. Jakarta: Kencana Prenada Media Group.
- Ulvik, M., Eide, H. M. K., Eide, L., Helleve, I., Jensen, V. S., Ludvigsen, K., Roness, D., & Torjussen, L. P. S. (2020). Teacher Educators Reflecting on Case-Based Teaching – A Collective Self-Study. *Professional Development in Education*, *48*(4), 657–671. <https://doi.org/10.1080/19415257.2020.1712615>
- Umam, K., & Susandi, D. (2022). Critical Thinking Skills: Error Identifications on Students' with APOS Theory. *International Journal of Evaluation and Research in Education*, *11*(1), 182–192. <https://doi.org/10.11591/ijere.v11i1.21171>
- Villatoro, T., Lackritz, K., & Chan, J. S. Y. (2019). Case-Based Asynchronous Interactive Modules in Undergraduate Medical Education. *Academic Pathology*, *6*. <https://doi.org/10.1177/2374289519884715>
- Vogt, A., Klepsch, M., Baetge, I., & Seufert, T. (2020). Learning From Multiple Representations: Prior Knowledge Moderates the Beneficial Effects of Signals and Abstract Graphics. *Frontiers in Psychology*, *11*, 1–11. <https://doi.org/10.3389/fpsyg.2020.601125>
- von Rueden, L., Houben, S., Cvejovski, K., Bauckhage, C., & Piatkowski, N. (2022). Informed Pre-Training on Prior Knowledge. *ArXiv Preprint ArXiv:2205.11433*.
- Wahyudiana, E., Sagita, J., Iasha, V., Setiantini, A., & Setiarini, A. (2021). Modul Praktikum IPA Berbasis Problem Based Learning Untuk Meningkatkan Kemampuan Pemecahan Masalah. *Buana Pendidikan*, *17*(2), 161–167. <https://doi.org/10.36456/bp.vol17.no2.a4341>

- Weise, J. J., Greiff, S., & Sparfeldt, J. R. (2020). The Moderating Effect of Prior Knowledge on The Relationship Between Intelligence and Complex Problem Solving – Testing the Elshout-Raaheim Hypothesis. *Intelligence*, 83(October), 101502. <https://doi.org/10.1016/j.intell.2020.101502>
- Wicaksono, A. G. C., & Korom, E. (2022). Review of Problem-Solving Measurement: An Assessment Developed in The Indonesian Context. *Participatory Educational Research*, 9(1), 116–136. <https://doi.org/10.17275/per.22.7.9.1>
- Widodo, J. (2012). Urban Environment and Human Behaviour: Learning from History and Local Wisdom. *Procedia - Social and Behavioral Sciences*, 42(July 2010), 6–11. <https://doi.org/10.1016/j.sbspro.2012.04.161>
- Wijaya, J. E., & Vidiанти, A. (2020). The Effectiveness of Using Interactive Electronic Modules on Student Learning Outcomes in Education Innovation Course. *Advances in Social Science, Education and Humanities Research*, 422, 86–89. <https://doi.org/10.2991/assehr.k.200323.096>
- Williams, B. (2005). Case Based Learning - A Review of The Literature: Is There Scope for This Educational Paradigm in Prehospital Education? *Emergency Medicine Journal*, 22(8), 577–581. <https://doi.org/10.1136/emj.2004.022707>
- Yang, X., Rahimi, S., Shute, V., Kuba, R., Smith, G., & Alonso-Fernández, C. (2021). The Relationship Among Prior Knowledge, Accessing Learning Supports, Learning Outcomes, and Game Performance in Educational Games. *Educational Technology Research and Development*, 69(2), 1055–1075. <https://doi.org/10.1007/s11423-021-09974-7>
- Yuwentin, O., Mahardika, I. K., Nuriman, Sudiarmika, A. A. I. A. R., & Sugiartana, I. W. (2020). The Development of Think Together About Science in Society (TToSS) Learning Model to Increase Critical Thinking Skill in Science Lesson. *Journal of Physics: Conference Series*, 1465(1). <https://doi.org/10.1088/1742-6596/1465/1/012042>
- Zong, M., Qiu, Z., Ma, X., Yang, K., Liu, C., Hou, J., Yi, S., & Ouyang, W. (2023). Better Teacher Better Student: Dynamic Prior Knowledge for Knowledge Distillation. *ICLR 2023*, 1–22. <https://doi.org/10.48550/arXiv.2206.06067>