

DAFTAR RUJUKAN

- Abbas, N. F., & Qassim, T. A. (2020). Investigating the Effectiveness of YouTube as a Learning Tool among EFL Students at Baghdad University. *Arab World English Journal, Special Is(6)*, 344–356.
- Abdullah, A. H., Liyana, N., Abidin, Z., & Ali, M. (2015). Analysis of Students ' Errors in Solving Higher Order Thinking Skills (HOTS) Analysis of Students ' Errors in Solving Higher Order Thinking Skills (HOTS) Problems for the Topic of Fraction. *Asian Social Science, 11(21)*, 133–142. <https://doi.org/10.5539/ass.v11n21p133>
- Abdullah, N. A. C., Tajuddin, A. J. A., & Soon, G. Y. (2019). Mandarin students' perceptions of smartphone applications in Mandarin learning. *Universal Journal of Educational Research, 7(A9)*, 61–70. <https://doi.org/10.13189/ujer.2019.071608>
- Afdalia, A., Arsyad, M., & Arafah, K. (2020). Pengembangan Modul Pembelajaran IPA Fisika Berbasis Kearifan Lokal Sandeq pada Sekolah Menengah Pertama. *Prosiding Seminar Nasional Fisika PPs UNM, 2*, 1–4. <https://ojs.unm.ac.id/semnasfisika/article/view/12869>
- Agung, A., Agung, I., & Sudiarmika, R. (2021). Pelatihan Pratikum Ipa Sederhana Pada Pembelajaran Ipa Dimasa Pandemi Covid -19. *Proceeding Senadimas Undiksha, 342–354*.
- Agussuryani, Q., Sudarmin, S., Sumarni, W., Cahyono, E., & Ellianawati, E. (2022). STEM literacy in growing vocational school student HOTS in science learning: A meta-analysis. *International Journal of Evaluation and Research in Education, 11(1)*, 51–60. <https://doi.org/10.11591/ijere.v11i1.21647>
- Agustian, E., Rachmawati, R., Rijanta, R., & Pitoyo, A. J. (2020). Characteristic of multi-ethnic settlement in Indonesia, a case study: Kampung 3-4 Ulu Laut settlement on Musi Riverbank in Palembang City. *E3S Web of Conferences, 200*. <https://doi.org/10.1051/e3sconf/202020003002>
- Ahmad, N. J., Yakob, N., Bunyamin, M. A. H., Winarno, N., & Akmal, W. H. (2021). The effect of interactive computer animation and simulation on

students' achievement and motivation in learning electrochemistry. *Jurnal Pendidikan IPA Indonesia*, 10(3), 311–324. <https://doi.org/10.15294/JPII.V10I3.26013>

Ahmed, M. S., Everatt, J., & Fox-Turnbull, W. (2017). Extracting Best Set of Factors that Affect Students Adoption of Smartphone for University Education: Empirical Evidence from UTAUT-2 Model. *Journal of Management, Economics and Industrial Organization*, 1(1), 51–65. <https://doi.org/10.31039/jomeino.2017.1.1.5>

Ahsani, E. L. F., & Azizah, N. R. (2021). Implementasi Literasi Budaya dan Kewargaan untuk Mengembangkan Keterampilan Sosial Siswa Madrasah Ibtidaiyah Di Tengah Pandemi. *Jurnal Pendidikan Kewarganegaraan*, 11(1), 7–16.

Al-taai, S. H. H., & Kanber, H. A. (2023). The Importance of Using the Internet of Things in Education. *IJET*, 18(01), 19–39.

Alshamsi, A. S., Alshamsi, A. K., & Alketbi, A. N. (2022). Training Teachers Using Action Research for Innovation in Early Childhood Education Literacy. *International Journal of Learning, Teaching and Educational Research*, 21(11), 54–72.

Amelia, A., & Retnowardhani, A. (2021). Technology Acceptance of an Online Learning Platform : A Case Study of Leson . id. *Turkish Journal of Computer and Mathematics Education*, 12(6), 3635–3645.

Andayani, Y., Burhanuddin, Hakim, A., Loka, I. N., & Muti'ah. (2021). Chemical Content In The Sembeq Traditional Rituals Of The Lombok Community. *Jurnal Pijar Mipa*, 16(4), 531–534. <https://doi.org/10.29303/jpm.v16i4.2798>

Andayani, Y., Burhanuddin, Hakim, A., Loka, I. N., & Muti'ah. (2022). Kajian Etnosains Pakaian Adata “Lambung”: Identifikasi Konsep Kimia dalam Tradisi Masyarakat Lombok. *UNESA Journal of Chemical Education*, 11(1), 65–69.

Andayani, Y., Purwoko, A. A., & Hakim, A. (2021). Peningkatan Pemahaman Guru Tentang Etnosain dalam Pembelajaran IPA. *Jurnal Pengabdian Magister Pendidikan IPA*, 4(4), 196–200.

- Aranda, M. R. R. (2022). Learning Challenges in the New Senior High School English Curriculum in the Philippines. *International Journal of Learning, Teaching and Educational Research*, 21(11), 315–333.
- Arjaya, I. B. A., Suastra, I. W., Sudiatmika, A., Redhana, I. W., Wibawa, S. C., & Ratnaya, I. G. (2022). Meta-Analysis of Tri Hita Karana in Experimental Quasi-Research of Science Learning. *Journal of Positive School Psychology*, 6(5), 7048–7057.
- Asrial, Syahrial, Kurniawan, D. A., Aldila, F. T., & Iqbal, M. (2022). Gender and Perception: Implementation of Web-based Character Assessment on Students' Character Outcomes. *International Journal of Instruction*, 15(4), 311–338. <https://doi.org/10.29333/iji.2022.15418a>
- Asrizal, Yurnetti, & Usman, E. A. (2022). Ict Thematic Science Teaching Material With 5E Learning Cycle Model To Develop Students' 21St-Century Skills. *Jurnal Pendidikan IPA Indonesia*, 11(1), 61–72. <https://doi.org/10.15294/jpii.v11i1.33764>
- Astuti, B., & Linuwih, S. (2019). Bahan Ajar IPA Berbasis Etnosains Tema Pemanasan Global untuk Peserta Didik SMP Kelas VII. *UPEJ Unnes Physics Education Journal*, 8(1), 53–59. <https://doi.org/10.15294/upej.v8i1.29512>
- Asyhari, A. (2017). Literasi Sains Berbasis Nilai-Nilai Islam dan Budaya Indonesia. *Jurnal Ilmiah Pendidikan Fisika Al-Biruni*, 6(1), 137–148. <https://doi.org/10.24042/jpifalbiruni.v6i1.1584>
- Atmojo, S. E., & Lukitoaji, B. D. (2020). Pembelajaran Tematik Berbasis Etnosains dalam Meningkatkan Literasi Budaya dan Kewargaan Siswa Sekolah Dasar. *Jurnal Inspirasi Pendidikan*, 10(2), 105–113. <http://ejournal.unikama.ac.id/index.php/jrnspirasi/article/view/3011>
- Aufa, M., Saragih, S., & Minarni, A. (2016). Development of Learning Devices through Problem Based Learning Model Based on the Context of Aceh Cultural to Improve Mathematical Communication Skills and Social Skills of SMPN 1 Muara Batu Students. *Journal of Education and Practice*, 7(24), 232–248.
- Awasthi, Y. (2021). A New Dimensions and Directions of an Online Education

- System. *International Journal of Computer Trends and Technology*, 69(1), 27–33. <https://doi.org/10.14445/22312803/ijctt-v69i1p106>
- Azhari, S., Suastra, I. W., & Sudiarmika, A. A. I. A. R. (2020). Hubungan antara Motivasi Belajar dan Sikap Ilmiah Dengan Prestasi Belajar Fisika Siswa Kelas XI IPA SMA Negeri 2 Denpasar. *Jurnal Pendidikan Fisika Undiksha*, 10(2), 91. <https://doi.org/10.23887/jjpf.v10i2.28688>
- Azizah, N., & Astuti, B. (2020). Pengembangan Bahan Ajar Fisika Berbasis I-SETS (Islamic, Science, Environment, Technology, Society) Terkomplementasi Kearifan Lokal dan Muatan Karakter. *Unnes Physics Education Journal*, 9(2), 164–177.
- Bahtiar, E. T. (2015). *Penulisan Bahan Ajar*. October. <https://doi.org/10.13140/RG.2.1.1441.6083>
- Balushi, W. Al, Al-busaidi, F. S., Malik, A., & Al-salti, Z. (2022). Social Media Use in Higher Education During the COVID-19 Pandemic : A Systematic Literature Review. *IJET*, 17(24), 4–24.
- Bodner, G. M. (1986). Constructivism: A theory of knowledge. *Journal of Chemical Education*, 63(10), 873–878. <https://doi.org/10.1021/ed063p873>
- Budiarti, R., Sujanto, B., & Mukhtar, M. (2022). Organizational commitment building to the principal of the senior high school. *International Journal of Evaluation and Research in Education*, 11(4), 2147–2154. <https://doi.org/10.11591/ijere.v11i4.23094>
- Carter, M. M., Lewis, E. L., Sbrocco, T., Tanenbaum, R., Oswald, J. C., Sykora, W., Williams, P., & Hill, L. D. (2006). Cultural Competency Training for Third-Year Clerkship Students : Effects of an Interactive Workshop on Student Attitudes. *Journal Of The National Medical Association*, 98(1), 1772–1778.
- Cavus, N., & Alhih, M. S. (2014). Learning Management Systems Use in Science Education. *Procedia - Social and Behavioral Sciences*, 143, 517–520. <https://doi.org/10.1016/j.sbspro.2014.07.429>
- Daniah. (2018). Pelestarian Biodiversitas Melalui Penguatan Kompetensi Budaya Guru Berbasis Kearifan Lokal (Local Wisdom). *Prosiding Seminar Nasional*

Biotik 2018, Biodiversity, Local Wisdom, 12–26.

Depdiknas. (2008). Panduan Pengembangan Bahan Ajar. In *Dijendikdasmen, Direktorat Pembinaan SMA* (pp. 1–13). http://file.upi.edu/Direktori/FIP/JUR._KURIKULUM_DAN_TEK._PENDIDIKAN/194601291981012-PERMASIH/PENGEMBANGAN_BAHAN_AJAR.pdf

Desyandri, D. (2018). Nilai-Nilai Kearifan Lokal untuk Menumbuhkembangkan Literasi Budaya di Sekolah Dasar. *Sekolah Dasar: Kajian Teori Dan Praktik Pendidikan*, 27(1), 1–9. <https://doi.org/10.17977/um009v27i12018p001>

Devi, N. L. P. L. (2018). Pengembangan bahan ajar IPA terpadu berkarakter peduli lingkungan tema “ konservasi ” berbasis kearifan lokal untuk mahasiswa jurusan Pendidikan IPA. *Wahana Matematika Dan Sains; Jurnal Matematika, Sains, Dan Pembelajarannya*, 12(1), 42–53.

Dewi, I. N., Poedjiastoeti, S., & Prahani, B. K. (2017). Elsii learning model based local wisdom to improve students’ problem solving skills and scientific communication. *Intrernational Journal of Education and Research*, 5(1), 107–118.

Dewi, I. N., Utami, S. D., Effendi, I., Ramdani, A., & Rohyani, I. S. (2021). The Effectiveness of Biology Learning-Local Genius Program of Mount Rinjani Area to Improve the Generic Skills. *International Journal of Instruction*, 14(1), 265–282.

Dewi, N. C. (2020). Pengembangan E-learning Berbasis Google Sites untuk Meningkatkan Prestasi Belajar Siswa. *DIADIK: Jurnal Ilmiah Teknologi Pendidikan*, 10(1), 210–216.

Elpisah, E., & Hasan, M. (2019). Perbandingan Kompetensi Wirausaha Mahasiswa Melalui Pembelajaran Kewirausahaan Berbasis Budaya Lokal Dengan Yang Tidak Berbasis Budaya Lokal. *Lentera Pendidikan*, 22(1), 110–125. http://103.55.216.56/index.php/lentera_pendidikan/article/view/7355

Erman, E., Pare, B., Susiyawati, E., Martini, M., & Subekti, H. (2022). Using Scaffolding Set to Help Student Addressing Socio-Scientific Issues in Biochemistry Classes. *International Journal of Instruction*, 15(4), 871–888.

<https://doi.org/10.29333/iji.2022.15447a>

- Ernawati, M. D. W., Sudarmin, S., Asrial, A., & Haryanto, H. (2023). The Effect of Scaffolding-Based Problem-Based Learning on Creative Thinking Skills on Hormone Materials. *Jurnal Pendidikan Sains Indonesia*, 11(1), 129–141. <https://doi.org/10.24815/jpsi.v11i1.26955>
- Fadillah, A. (2016). *Pengembangan Bahan Ajar Kimia Berbasis Web dengan HTML 5 sebagai Pendukung Pembelajaran Abad 21*.
- Fahmi, F., Pratolo, B. W., & Abbas, A. (2022). The core aspects of teacher's book content: An analysis on teacher's needs. *International Journal of Evaluation and Research in Education*, 11(3), 1575–1584. <https://doi.org/10.11591/ijere.v11i3.22370>
- Fauzi Bakri, Dewi Mulyati, I. N. (2018). Website E-Learning Berbasis Modul : Bahan Pembelajaran Fisika. *Jurnal Wahana Pendidikan Fisika*, 3(1), 90–95.
- Febriantika, L. (2018). Pengembangan bahan ajar berbasis web mata pelajaran biologi kelas XI. *BaJET (Baturaja Journal of Educational Technology)*, 2(2), 135–137. <http://journal.unbara.ac.id/index.php/BaJET/article/view/24>
- Fua, J., Wekke, I., Sabara, Z., & Nurlila, R. (2018). Development of Environmental Care Attitude of Students through Religion Education Approach in Indonesia. *IOP Conf. Series: Earth and Environmental Science* 175, 1–8.
- Funa, A. A., Gabay, R. A. E., Ibardaloza, R. T., & Limjap, A. A. (2022). Knowledge, Attitudes, and Behaviors of Students and Teachers towards Education for Sustainable Development. *Cakrawala Pendidikan*, 41(3), 569–585. <https://doi.org/10.21831/cp.v41i3.42407>
- Galarce-miranda, C., Gormaz-lobos, D., Kersten, S., & Hortsch, H. (2022). Developing and Validating an Instrument to Measure Students' Perceptions of the use of ICTs and Educational Technologies in Times of the COVID-19 Pandemic. *IJET*, 17(22), 186–201.
- Gusti, U. A., Salsyabila, A., Sunandar, A., & Rahmat, A. (2023). Analisis TPACK (Technological, Pedagogical, And Content Knowledge) pada Materi

Bioteknologi SMA / MA. *Biology and Education Journal*, 3(1), 65–75.

Hafina, A., Nur, L., & Malik, A. A. (2022). The development and validation of a character education model through traditional games based on the Socratic method in an elementary school. *Cakrawala Pendidikan*, 41(2), 404–415. <https://doi.org/10.21831/cp.v41i2.46125>

Hafizah, E., Annur, S., & Putri, R. F. (2021). Pengembangan Bahan Ajar IPA Terpadu Berbasis Kearifan Lokal Di Lahan Basah. *Vidya Karya*, 36(2), 68. <https://doi.org/10.20527/jvk.v36i2.10504>

Hake, R. R. (1999). Analyzing Change/Gain Scores. In *Indiana University* (pp. 1–4). Indiana University. <https://doi.org/10.24036/ekj.v1.i1.a10>

Hakim, D. (2014). Karakter Bangsa Dalam Kurikulum. *Religi: Jurnal Studi Islam*, 5(Oktober), 145–168.

Hamzah, A. (2018). Mapping the determining factors of mobile learning adoption in high school. *ACM International Conference Proceeding Series*, 136–139. <https://doi.org/10.1145/3291078.3291082>

Hariadi, B., Jatmiko, B., Sunarto, M. J. D., Prahani, B. K., Sagirani, T., Amelia, T., & Lemantara, J. (2022). Higher Order Thinking Skills Based Learning Outcomes Improvement with Blended Web Mobile Learning Model. *International Journal of Instruction*, 15(2), 565–578. <https://doi.org/10.29333/iji.2022.15231a>

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*, 1–8. <https://doi.org/10.1088/1742-6596/1440/1/012108>

Hastuti, S., Slamet, Sumarwati, & Rakhmawati, A. (2023). Short Story Writing Learning Based on Local Wisdom with Digital Book Media for University Students. *International Journal of Instruction*, 16(1), 821–832. <https://doi.org/10.29333/iji.2023.16146a>

Herwandi, O., Istiyadji, M., & Yulinda, R. (2021). Pengembangan Bahan Ajar IPA Berbasis Literasi Sains Bermuatan Kearifan Lokal Sistem Pondasi Rumah Lanting. *Jurnal Pahlawan*, 17(02), 101–110.

- Hidayah, N., & Karimah, N. (2020). Kaitan Pembelajaran Berbasis Kearifan Lokal dengan Keterampilan Generic Sains pada IPA Sekolah Dasar. *Universitas Muhammadiyah Purworejo*, 115–125.
- Hidayatulah, A., yushardi, Y., & Wahyuni, S. (2015). Pengembangan Bahan Ajar Berbasis Web Interaktif Dengan Aplikasi E-Learning Moodle Pada Pokok Bahasan Besaran Dan Satuan Di Sma. *Jurnal Pembelajaran Fisika Universitas Jember*, 4(2), 139047.
- Hikmawati, H., Suastra, I. W., Suma, K., Sudiatmika, A. A. I. A. R., & Rohani, R. (2021). Effect of Problem-Based Learning Integrated Local Wisdom on Student Hots and Scientific Attitude. *Jurnal Penelitian Pendidikan IPA*, 7(SpecialIssue), 233–239. <https://doi.org/10.29303/jppipa.v7ispecialissue.1118>
- Hikmawati, & Suastra, I. W. (2021). Respon Mahasiswa Terhadap Perkuliahan Berbasis Kearifan lokal Pada Mata Kuliah Kajian Fisika Sekolah Menengah. *Kappa Journal*, 5(2), 34–42.
- Hikmawati, Suastra, I. W., & Pujani, N. M. (2021). Local wisdom in Lombok island with the potential of ethnoscience for the development of learning models in junior high school. *Journal of Physics: Conference Series*, 1816(1). <https://doi.org/10.1088/1742-6596/1816/1/012105>
- Hubackova, S., & Semradova, I. (2016). Evaluation of Blended Learning. *Procedia - Social and Behavioral Sciences*, 217, 551–557. <https://doi.org/10.1016/j.sbspro.2016.02.044>
- Huda, Figta, N., Noperman, F., & Yuliantini, N. (2002). Pengaruh Bahan Ajar Muatan Lokal Konservasi Pesisir Pantai Bengkulu terhadap Sikap Peduli Lingkungan Siswa Kelas IV Sekolah Dasar. *JuRiDikDas*, 1(3), 189–198.
- Ichsan, I. Z, Sigit, D. V., Miarsyah, M., Ali, A., Arif, W. P., & Prayitno, T. A. (2019). HOTS-AEP: Higher order thinking skills from elementary to master students in environmental learning. *European Journal of Educational Research*, 8(4), 935–942. <https://doi.org/10.12973/eu-jer.8.4.935>
- Ichsan, Ilmi Zajuli, Hasanah, R., Ristanto, R. H., Rusdi, R., Cahapay, M. B., Widiyawati, Y., & Rahman, M. M. (2020). Designing an Innovative

- Assessment of HOTS in the Science Learning for the 21st Century. *Jurnal Penelitian Dan Pembelajaran IPA*, 6(2), 211. <https://doi.org/10.30870/jppi.v6i2.4765>
- Indiati, I. (2022). Understanding Teacher Candidate Students' Level of TPACK Mastery In Learning That Applies to Ethnoscience-Oriented Lecture Programs. *KnE Social Sciences: 5th International Conference on Education and Social Science Research (ICESRE)*, 2022, 635–641. <https://doi.org/10.18502/kss.v7i19.12482>
- Irmawati, F., Oktaviana, I., & Rahayu, L. (2016). Pengembangan Bahan Ajar Pengetahuan Lingkungan Berbasis Web Untuk Meningkatkan Motivasi Mahasiswa Ikip Budi Utomo Malang. *Florea: Jurnal Biologi Dan Pembelajarannya*, 3(1), 12. <https://doi.org/10.25273/florea.v3i1.783>
- Irwandi, Santoso, S., Sakroni, Lukitasari, M., & Hasan, R. (2022). School-community Collaboration in Inquiry-based Learning to Strengthen Religious Character and Improve Learning Outcome of Students. *International Journal of Instruction*, 15(3), 913–930. <https://doi.org/10.29333/iji.2022.15349a>
- Isa, I. M. M., Bunyamin, M. A. H., & Phang, F. A. (2022). Bridging Culture and Science Education: Implications for Research and Practice. *International Journal of Learning, Teaching and Educational Research*, 21(10), 362–380. <https://doi.org/10.26803/ijlter.21.10.20>
- Isayeva, O. (2014). Modeling Cultural Competence in Teaching Humanities to Medical Students. *American Journal of Educational Research*, 2(12B), 51–55. <https://doi.org/10.12691/education-2-12b-10>
- Iswatiningsih, D. (2019). Penguatan Pendidikan Karakter Berbasis Nilai-Nilai Kearifan Lokal di Sekolah. *Jurnal Satwika*, 3(2), 155. <https://doi.org/10.22219/satwika.vol3.no2.155-164>
- Jalinus, N., Verawardina, U., Azis Nabawi, R., & Darma, Y. (2021). Developing Blended Learning Model in Vocational Education Based On 21st Century Integrated Learning and Industrial Revolution 4.0. *Turkish Journal of Computer and Mathematics Education*, 12(8), 1239–1254.
- Jamaluddin, J., Jufri, A. W., Muhlis, M., & Bachtiar, I. (2020). Pengembangan

- Instrumen Keterampilan Berpikir Kritis Pada Pembelajaran IPA di SMP. *Jurnal Pijar Mipa*, 15(1), 13–19. <https://doi.org/10.29303/jpm.v15i1.1296>
- Jammeh, A. L. J., Karegeya, C., & Ladage, S. (2022). The Smartboard in Chemistry Classrooms: What is Its Effect on Chemistry Teaching and Learning in Selected Topics in Grade 11? *International Journal of Learning, Teaching and Educational Research*, 21(9), 217–231. <https://doi.org/10.26803/ijlter.21.9.12>
- Januarharyono, Y. (2021). *Peran pemuda di era globalisasi*.
- Johnson, T. L. (2018). A quantitative inquiry: Intentions to use mobile devices with learning management system by higher education faculty and students. In *Journal of Chemical Information and Modeling* (Issue June).
- Junpho, M., Songsriwittaya, A., & Tep, P. (2022). Reliability and Construct Validity of Computational Thinking Scale for Junior High School Students: Thai Adaptation. *International Journal of Learning, Teaching and Educational Research*, 21(9), 154–173. <https://doi.org/10.26803/ijlter.21.9.9>
- Kartika, A. T., Eftiwin, L., Lubis, M. F., & Walid, A. (2020). Profil Kemampuan Berpikir Kritis Siswa Kelas VIII SMP Pada Mata Pelajaran IPA. *JARTIKA : Jurnal Riset Teknologi Dan Inovasi Pendidikan*, 3(1), 1–10. <https://doi.org/10.36765/jartika.v3i1.46>
- Kemendikbud. (2013). *Materi Pelatihan Guru: Implementasi Kurikulum 2013 - SMP/MTs - Ilmu Pengetahuan Alam*. Badan Pengembangan Sumber Daya Manusia Pendidikan dan Kebudayaan dan Penjaminan Mutu Pendidikan Kementerian Pendidikan dan Kebudayaan.
- Kemendiknas. (2010). *Panduan Pengembangan LKS Berbasis TIK*.
- Khasanah, R., & Muflihah, S. M. (2021). Online Learning Management Using Google Sites on Relations and Functions in Pandemic Conditions. *Journal of Education and Learning Mathematics Research (JELMaR)*, 2(1), 68–76. <https://doi.org/10.37303/jelmar.v2i1.49>
- Khelifi, Y. (2022). Hybrid Authentication Combining Student Behavior and Knowledge for E-Evaluation Transparency and Equity Over E-Learning Platform. *IJET*, 17(21), 17–37.
- Krathwohl, D. R. (2017). A Revision of Bloom's Taxonomy: An Overview. *Theory*

- Into Practice*, 41(4), 212–218. <https://doi.org/10.1207/s15430421tip4104>
- Krathwohl, D. R., & Anderson, L. W. (2010). Merlin C. Wittrock and the revision of bloom's taxonomy. *Educational Psychologist*, 45(1), 64–65. <https://doi.org/10.1080/00461520903433562>
- Krutka, D. G., Carpenter, J. P., & Trust, T. (2016). Elements of Engagement: A Model of Teacher Interactions via Professional Learning Networks. *Journal of Digital Learning in Teacher Education*, 32(4), 150–158. <https://doi.org/10.1080/21532974.2016.1206492>
- Kurherdyana, R. (2021). Pengertian Budaya, Lintas Budaya, dan Teori yang Melandasi Lintas Budaya. In *Modul 1* (pp. 1–63).
- Kusuma, M. D., Rosidin, U., & Suyatna, A. (2017). The Development of Higher Order Thinking Skill (HOTS) Instrument Assessment In Physics Study. *IOSR Journal of Research & Method in Education (IOSR-JRME)*, 7(1), 1–7. <https://doi.org/10.9790/7388-070103XXXX>
- Laila, E., Sudarmin, S., Prasetya, A. T., & Sumarni, W. (2022). Studi Literatur: Penggunaan Jenis Media Pembelajaran untuk Meningkatkan Kemampuan Literasi Kimia Siswa. *Edukatif: Jurnal Ilmu Pendidikan*, 4(3), 4982–4993. <https://doi.org/10.31004/edukatif.v4i3.2907>
- Lesmono, A. D., Bachtiar, R. W., Maryani, & Muzdalifah, A. (2018). The instructional-based andro-web comics on work and energy topic for senior high school students. *Jurnal Pendidikan IPA Indonesia*, 7(2), 147–153. <https://doi.org/10.15294/jpii.v7i2.14245>
- Lestari, I. B., Sudarmin, S., Ellianawati, E., Wiyanto, W., & Sumarni, W. (2021). Review Analysis of Video Blogging, Ethnoscience and Social Media Literacy in the Era of the Industrial Revolution 4.0. *Thabiea: Journal of Natural Science Teaching*, 4(1), 33. <https://doi.org/10.21043/thabiea.v4i1.9767>
- Lestari, S., Winarni, E. W., & Wurjinem. (2017). Pengaruh Bahan Ajar Muatan Lokal Konservasi Flora Khas Bengkulu Terhadap Sikap Peduli Lingkungan Siswa Kelas V Sekolah Dasar Di Kota Bengkulu. *JuRiDiKDas*, 1(1), 29–35.
- Lestariningsih, N., & Suardiman, S. P. (2017). Pengembangan Bahan Ajar Tematik-Integratif Berbasis Kearifan Lokal Untuk Meningkatkan Karakter Peduli Dan

- Tanggung Jawab. *Jurnal Pendidikan Karakter*, 7(1).
<https://doi.org/10.21831/jpk.v7i1.15503>
- Likert, R. (1932). "Technique for the Measurement of Attitudes, A." In *Archiver of Psychology*. <https://doi.org/10.4135/9781412961288.n454>
- Lui, L. (2018). *Student adoption of facebook private groups for mobile learning in Hong Kong* (Issue September).
- Magdalena, I., Sundari, T., Nurkamilah, S., Nasrullah, & Amalia, D. A. (2020). Analisis Bahan Ajar. *Nusantara : Jurnal Pendidikan Dan Ilmu Sosial*, 2(2), 311–326. <https://ejournal.stitpn.ac.id/index.php/nusantara>
- Mahanani, P., Akbar, S., Kamaruddin, A. Y. B., & Hussin, Z. B. (2022). Educational Analysis to Develop Character in Malaysia and Indonesia. *International Journal of Instruction*, 15(3), 377–392. <https://doi.org/10.29333/iji.2022.15321a>
- Manishimwe, H. (2022). Exploring the Impact of Enquiry-Based Instructional Strategies on Students' Attitudes towards Biology. *International Journal of Learning, Teaching and Educational Research*, 21(12), 21–43.
- Mapulanga, T., Nshogoza, G., & Yaw, A. (2022). Teachers' Perceived Enacted Pedagogical Content Knowledge in Biology at Selected Secondary Schools in Lusaka. *International Journal of Learning, Teaching and Educational Research*, 21(10), 418–435. <https://doi.org/10.26803/ijlter.21.10.23>
- Monita, K. A., Narulita, E., & Budiarmo, A. S. (2021). The Effectiveness of Local Wisdom-Based Science Teaching Materials in Improving High School Students' Critical Thinking Skills. *Mangifera Edu*, 5(2), 141–149. <https://doi.org/10.31943/mangiferaedu.v5i2.99>
- Mukti, W. M., N, Y. B. P., & Anggraeni, Z. D. (2020). Media Pembelajaran Fisika Berbasis Web Menggunakan Google Sites pada Materi Listrik Statis. *FKIP E-PROCEEDING*, 5(1), 51–59. <https://sites.google.com/view/fisikakuyess>.
- Muliyati, D., Marizka, H., & Bakri, F. (2019). E-Learning Using Wordpress on Physics Materials with The 5E Learning Cycle Strategy. *Jurnal Penelitian Dan Pengembangan Pendidikan Fisika*, 5(2), 101–112.
- Musanna, A. (2012). Articulation of Teacher Education Based on Local Wisdom to

- Preparing Culturally Compoetence Teachers. *Jurnal Pendidikan Dan Kebudayaan*, 18(September), 328–341.
- Nahak, H. M. I. (2019). Upaya Melestarikan Budaya Indonesia di Era Globalisasi. *Jurnal Sosiologi Nusantara*, 5(1), 65–76.
- Nalasari, K. A., Suarni, N. K., & Wibawa, I. M. C. (2021). Pengembangan Bahan Ajar Berbasis Web Google Sites Pada Tema 9 Subtema Pemanfaatan Kekayaan Alam Di Indonesia Untuk Siswa Kelas Iv Sekolah Dasar. *Jurnal Teknologi Pembelajaran Indonesia*, 11(2), 135–146. https://doi.org/10.23887/jurnal_tp.v11i2.658
- Nazifah, N., & Syamina, S. (2021). Meta Analisis Pengaruh Penggunaan Bahan Ajar Terintegrasi Kearifan Lokal Terhadap Hasil Belajar Siswa. *Jurnal Penelitian Pembelajaran Fisika*, 7(2), 154–162. <http://ejournal.unp.ac.id/index.php/jppf/article/view/113448>
- Nita, R., Annur, S., & Sari, M. M. (2020). Pengembangan Modul Ipa Materi Sistem Gerak Pada Makhluk Hidup Berbasis Kearifan Lokal. *Indonesian Jurnal Of Natural Science Education (IJNSE)*, 3(1), 281–292.
- Nugroho, I. A., & Surjono, H. D. (2019). Pengembangan Multimedia Pembelajaran Interaktif Berbasis Video Materi Sikap cinta Tanah Air dan Peduli Lingkungan. *Jurnal Inovasi Teknologi Pendidikan*, 6(1), 29–41.
- Nugroho, M. K. C., & Grendi, H. (2021). Pengembangan Media Pembelajaran Berbasis Google Sites Pada Mata Pelajaran Sosiologi Kelas X. (*J-PSH*) *Jurnal Pendidikan Sosiologi Dan Humaniora*, 12(2), 59–70.
- Nurchayani, D., Yuberti, Irwandani, Rahmayanti, H., Ichsan, I. Z., & Rahman, M. (2021). Ethnoscience learning on science literacy of physics material to support environment: A meta-analysis research. *Journal of Physics: Conference Series*, 1796(1). <https://doi.org/10.1088/1742-6596/1796/1/012094>
- Nurhasanah, A. (2017). Pengembangan Bahan Ajar Pendidikan Matematika 1 Untuk Meningkatkan Kualitas Pembelajaran Mahasiswa Pgsd Universitas Kuningan. *EduHumaniora | Jurnal Pendidikan Dasar Kampus Cibiru*, 9(2), 67. <https://doi.org/10.17509/eh.v9i2.7017>

- Octafianellis, D. F., Sudarmin, S., Wijayanti, N., & Pancawardhani, H. (2021). Analysis of student's critical thinking skills and creativity after problem-based learning with STEM integration. *Journal of Science Education Research Journal*, 2021(1), 31–37. www.journal.uny.ac.id/jser
- Oo, M. S., Schofield, S., & Lwin, M. M. (2022). Integrating a Mobile-Learning Platform for Enhancing Clinical Teaching : The Learners ' Perspective. *International Journal of Learning, Teaching and Educational Research*, 21(11), 87–111.
- Oral, I., & Erkilic, M. (2022). Investigating the 21st-Century Skills of Undergraduate Students: Physics Success, Attitude, and Perception. *Journal of Turkish Science Education*, 19(1), 288–305. <https://doi.org/10.36681/tused.2022.122>
- Parmin, P., Sajidan, S., Ashadi, A., & Sutikno, Sutikno, Mareta, Y. (2016). Preparing Prospective Teachers in Integrating Science and Local Wisdom through Practicing Open Inquiry. *Journal of Turkish Science Education*, 13(2), 3–14. <https://doi.org/10.12973/tused.10163a>
- Parmiti, D. P., Rediani, N. N., Antara, I. G. W. S., & Jayadiningrat, M. G. (2021). The effectiveness of local culture-integrated science learning through project-based assessment on scientific attitudes and science process skills of elementary school students. *Jurnal Pendidikan IPA Indonesia*, 10(3), 439–446. <https://doi.org/10.15294/JPII.V10I3.31301>
- Peraturan Pemerintah Republik Indonesia. (2021). Peraturan Pemerintah Republik Indonesia Nomor 57 Tentang Standar Nasional Pendidikan. *Standar Nasional Pendidikan*, 102501, 1–49. https://jdih.kemdikbud.go.id/arsip/Salinan_PP_Nomor_57_Tahun_2021.pdf
- Permataningsih, I., Istiyadji, M., & Hafizah, E. (2021). Pengembangan Bahan Ajar IPA SMP Topik Klasifikasi Materi dan Perubahannya untuk Menunjang Literasi Sains. *Vidya Karya*, 36(1), 49–60.
- Persada, S. F., Ivanovski, J., Miraja, B. A., Nadlifatin, R., Mufidah, I., Chin, J., & Redi, A. A. N. P. (2020). Investigating generation Z' intention to use learners' generated content for learning activity: A theory of planned behavior

- approach. *International Journal of Emerging Technologies in Learning*, 15(4), 179–194. <https://doi.org/10.3991/ijet.v15i04.11665>
- Plomp, T., & Nieveen, N. (2010). *An Introduction to Educational Design Research*.
- Prasistayanti, N. W. N., Santyasa, I. W., & Sukra Warpala, I. W. (2019). Pengaruh Desain E-Learning Terhadap Hasil Belajar Dan Keterampilan Berpikir Kreatif Siswa Dalam Mata Pelajaran Pemrograman Pada Siswa Smk. *Kwangsan: Jurnal Teknologi Pendidikan*, 7(2), 138. <https://doi.org/10.31800/jtp.kw.v7n2.p138--155>
- Pratiwi, A., & Asyarotin, E. N. K. (2019). Implementasi literasi budaya dan kewargaan sebagai solusi disinformasi pada generasi millennial di Indonesia. *Jurnal Kajian Informasi & Perpustakaan*, 7(1), 65–80. <https://doi.org/10.24198/jkip.v7i1.20066>
- Pratiwi, S. I., & Wahyudi, W. (2021). Pengembangan Bahan Ajar Tematik Berbasis Website untuk Peserta Didik di Sekolah Dasar. *Edukatif: Jurnal Ilmu Pendidikan*, 3(2), 333–340. <https://doi.org/10.31004/edukatif.v3i2.307>
- Prayogi, S., Ahzan, S., Indriaturrahi, I., & Rokhmat, J. (2022). Opportunities to Stimulate the Critical Thinking Performance of Preservice Science Teachers Through the Ethno-Inquiry Model in an E Learning Platform. *International Journal of Learning, Teaching and Educational Research*, 21(9), 134–153. <https://doi.org/10.26803/ijlter.21.9.8>
- Primasari, Y., Ulia, N., & Yustiana, S. (2021). Pengembangan Bahan Ajar Berbasis Kearifan Lokal Budaya Samin Guna Menyukkseskan Gerakan Literasi. *Jurnal Ilmiah "Pendidikan Dasar," VIII(1)*, 51–62.
- Pujawan, I. G. N., Rediani, N. N., Antara, I. G. W. S., Putri, N. N. C. A., & Bayu, G. W. (2022). Revised Bloom Taxonomy-Oriented Learning Activities To Develop Scientific Literacy and Creative Thinking Skills. *Jurnal Pendidikan IPA Indonesia*, 11(1), 47–60. <https://doi.org/10.15294/jpii.v11i1.34628>
- Purmadi, A., & Surjono, H. D. (2016). Pengembangan bahan ajar berbasis web berdasarkan gaya belajar siswa untuk mata pelajaran fisika. *Jurnal Inovasi Teknologi Pendidikan*, 3(2), 151–165.
- Purwanto, A., & Risdianto, E. (2022). Pelatihan Pembuatan Modul Elektronik

Menggunakan Program 3D Flip Profesional untuk Guru Guru IPA dalam Menyongsong Era Revolusi Industri 4.0 di SMPN 11 Kota Bengkulu. *DIKDIMAS: Jurnal Pengabdian Kepada Masyarakat*, 1(1), 5–10. <https://doi.org/10.58723/dikdimas.v1i1.11>

- Puspita Sari, A., & Setiawan, A. (2018). The Development of Internet-Based Economic Learning Media using Moodle Approach. *International Journal of Active Learning*, 3(2), 100–109. <http://journal.unnes.ac.id/nju/index.php/ijal>
- Putri, M. H., Fahmi, F., & Wahyuningsih, E. (2021). Efektivitas Perangkat Pembelajaran Ipa Untuk Melatihkan Keterampilan Berpikir Kritis Peserta Didik Smp Pada Materi Pokok Listrik Statis. *Journal of Banua Science Education*, 1(2), 79–84. <https://doi.org/10.20527/jbse.v1i2.13>
- Rahayu, A. B., Hadi, S., Istyadji, M., Zaini, M., Sholahuddin, A., & Fahmi, F. (2018). Development on Guided Inquiry Based Learning Devices to Improve Student Learning Outcomes in Science Materialism in Middle School. *European Journal of Alternative Education Studies*, 3(2), 107–117. <https://doi.org/10.5281/zenodo.2261027>
- Rahmatih, A. N., Maulyda, M. A., & Syazali, M. (2020). Refleksi Nilai Kearifan Lokal (Local Wisdom) dalam Pembelajaran Sains Sekolah Dasar: Literature Review. *Jurnal Pijar Mipa*, 15(2), 151. <https://doi.org/10.29303/jpm.v15i2.1663>
- Rahmatin, L. A., Marhaeni, A. A. I. ., & Gunamantha, I. . (2019). Analisis Sikap dan Muatan Pembelajaran IPA pada Tema Ekosistem Kurikulum 2013 Kelas V Serta Potensi Budaya Lokal Pendukung Pembelajaran. *JUPE: Jurnal Pendidikan Mandala*, 4(5), 189–197.
- Rahmatin, L. A., & Pransisca, M. A. (2020). Prototipe Buku Cerita Anak Berbasis Budaya Lokal Melalui Analisis Sikap Dan Muatan Pembelajaran Tema Ekosistem Kurikulum 2013 Kelas V Sekolah Dasar. *Jurnal Ilmiah Wahana Pendidikan*, 6(4), 619–627. <https://doi.org/10.5281/zenodo.4299160>
- Ramos, J. L., Lewis, J., Ramos, J. L. S., Dolipas, B. B., & Villamor, B. B. (2013). Higher Order Thinking Skills and Academic Performance in Physics of College Students : A Regression Analysis. *International Journal of Innovative*

Interdisciplinary Research, 4, 48–60.

- Rapi, N. ., Suastra, I. ., Widiarini, P., & Widiana, I. . (2022). the Influence of Flipped Classroom-Based Project Assessment on Concept Understanding. *Jurnal Pendidikan IPA Indonesia*, 11(3), 351–362. <https://doi.org/10.15294/jpii.v11i3.38275>
- Rezeki, S., Andrian, D., & Safitri, Y. (2021). Mathematics and Cultures : A New Concept in Maintaining Cultures through the Development of Learning Devices. *International Journal of Instruction*, 14(3), 375–392.
- Rohaili, J., Setiadi, D., & Kusmiyati, K. (2021). Pengaruh Penerapan Bahan Ajar Model Inkuiri Terbimbing Terintegrasi Kearifan Lokal Berbasis Outcome Based Education (OBE) Melalui Penggunaan Media Online Terhadap Literasi Sains. *Jurnal Pijar Mipa*, 16(2), 157. <https://doi.org/10.29303/jpm.v16i2.2379>
- Rohmaya, N., Sudiatmika, A. A. I. A. R., & Subagia, I. W. (2022). Deskripsi Kemampuan Awal Literasi Sains Siswa Kelas XI IPA MAN Buleleng Pada Topik Kimia Hijau. *Jurnal Penelitian Pendidikan Kimia: Kajian Hasil Penelitian Pendidikan Kimia*, 9(1), 28–41. <https://doi.org/10.36706/jppk.v9i1.16929>
- Ruyadi, Y., & Dahliyana, A. (2022). Basic competency of Pancasila ideological education for elementary school in Indonesia. *Cakrawala Pendidikan*, 41(3), 703–718. <https://doi.org/10.21831/cp.v41i3.45918>
- Sadjati, I. M. (2017). Pengembangan Bahan Ajar. In *Hakikat Bahan Ajar* (Vol. 3, Issue 1, pp. 1–62). <https://doi.org/10.1017/CBO9781107415324.004>
- Safitri, J., Rizky, S., & Rachma, K. (2021). Upaya Guru Dalam meningkatkan Hasil Belajar Siswa Sekolah Dasar Dengan menggunakan Pendekatan TPACK. *PGSD*, 1(1), 269–278.
- Saija, M., Rahayu, S., Fajaroh, F., & Sumari. (2022). Enhancement of High School Students' Scientific Literacy Using Local-Socioscientific Issues in Oe3C Instructional Strategies. *Jurnal Pendidikan IPA Indonesia*, 11(1), 11–23. <https://doi.org/10.15294/jpii.v11i1.33341>
- Sanjayanti, N. P. A. H., Suastra, I. W., Suma, K., & Adnyana, P. B. (2022). Effectiveness of Science Learning Model Containing Balinese Local Wisdom

- in Improving Character and Science Literacy of Junior High School Students. *International Journal of Innovative Research and Scientific Studies*, 5(4), 332–342. <https://doi.org/10.53894/ijirss.v5i4.750>
- Santika, I. G. N., Arnyana, I. B. P., Suastra, I. W., & Kartika, I. M. (2022). Contents Standard Policy of Basic Education in The National Level Reviewed from The Scope of Citizenship Education Materials. *Journal of Sustainable Development Science*, 4(1), 29–36. <https://doi.org/10.46650/jsds.4.1.1263.29-36>
- Santika, I. G. N., Suastra, I. W., & Arnyana, I. B. P. (2022). Membentuk Karakter Peduli Lingkungan Pada Siswa Sekolah Dasar Melalui Pembelajaran Ipa (Forming the Character of Caring for the Environment in Elementary School Students through Science Learning). *Jurnal Education and Development Institut Pendidikan Tapanuli Selatan*, 10(1), 207–212. <http://journal.ipts.ac.id/index.php/ED/article/view/3382%0Ahttp://journal.ipts.ac.id/index.php/ED/article/download/3382/2182>
- Saputro, B., Tortop, H. S., Zuhri, M., Mansur, & Saerozi, M. (2021). The effectiveness of the learning management system of saqural learning application on the scientific interpretation learning outcomes. *Jurnal Pendidikan IPA Indonesia*, 10(1), 111–120. <https://doi.org/10.15294/jpii.v10i1.27677>
- Sari, A. B. P., Dardjito, H., & Azizah, D. M. (2020). EFL students' improvement through the reflective youtube video project. *International Journal of Instruction*, 13(4), 393–408. <https://doi.org/10.29333/iji.2020.13425a>
- Sarini, P., & Selamat, K. (2019). Pengembangan Bahan Ajar Etnosains Bali bagi Calon Guru IPA. *Wahana Matematika Dan Sains: Jurnal Matematika, Sains, Dan Pembelajarannya*, 13(1), 27–39.
- Savitri, E. N., Amalia, A. V., Prabowo, S. A., Rahmadani, O. E. P., & Kholidah, A. (2021). The effectiveness of real science mask with qr code on students' problem-solving skills and scientific literacy. *Jurnal Pendidikan IPA Indonesia*, 10(2), 209–219. <https://doi.org/10.15294/jpii.v10i2.29918>
- Schmid, M., Brianza, E., & Petko, D. (2021). Self-reported technological

- pedagogical content knowledge (TPACK) of pre-service teachers in relation to digital technology use in lesson plans. *Computers in Human Behavior*, 115(106586), 1–12. <https://doi.org/10.1016/j.chb.2020.106586>
- Schreiner, C. (2005). How do learners in different cultures relate to science and technology? *Science Learning and Teaching*, 6(2), 1–17.
- Sepriyanti, N., Nelwati, S., Kustati, M., & Afriadi, J. (2022). the Effect of 21St-Century Learning on Higher-Order Thinking Skills (Hots) and Numerical Literacy of Science Students in Indonesia Based on Gender. *Jurnal Pendidikan IPA Indonesia*, 11(2), 314–321. <https://doi.org/10.15294/jpii.v11i2.36384>
- Setiawan, W., Hakim, L. F. N., & Filiestianto, G. (2021). Pengembangan Bahan Ajar Trigonometri Berbasis Animasi Pada Masa Pandemi Covid-19. *Jurnal Pembelajaran Matematika Inovatif (JPMI)*, 4(2), 435–444. <https://doi.org/10.22460/jpmi.v4i2.435-444>
- Setiyani, A., Sudarmin, S., & Ellianawati, E. (2022). E-UKBM Ethno-STEM: The Development of Independent Learning Activities to Train Students' Critical Thinking Skills in Pressure Topics. *Jurnal Penelitian & Pengembangan Pendidikan Fisika*, 8(2), 249–258. <https://doi.org/10.21009/1.08207>
- Shofiyah, N., Wulandari, R., & Setiyawati, E. (2020). Modul Dinamika Partikel Terintegrasi Permainan Tradisional Berbasis E-Learning untuk Meningkatkan Literasi Sains. *Jurnal Kependidikan: Jurnal Hasil Penelitian Dan Kajian Kepustakaan Di Bidang Pendidikan, Pengajaran Dan Pembelajaran*, 6(2), 292. <https://doi.org/10.33394/jk.v6i2.2639>
- Shufa, F., Khusna, N., & Artikel, S. (2018). Pembelajaran Berbasis Kearifan Lokal Di Sekolah Dasar : Sebuah Kerangka Konseptual. *Inopendas Jurnal Ilmiah Kependidikan*, 1(1), 48–53.
- Sivarajah, U., Irani, Z., & Weerakkody, V. (2015). Evaluating the use and impact of Web 2.0 technologies in local government. *Government Information Quarterly*, 32(4), 473–487. <https://doi.org/10.1016/j.giq.2015.06.004>
- Solihudin, T. (2018). Pengembangan E-Modul Berbasis Web Untuk Meningkatkan Pencapaian Kompetensi Pengetahuan Fisika Pada Materi Listrik Statis Dan Dinamis Sma. *WaPFI (Wahana Pendidikan Fisika)*, 3(2), 51.

<https://doi.org/10.17509/wapfi.v3i2.13731>

- Suastra, I. W., Ristiati, N. P., Adnyana, P. P. B., & Kanca, N. (2019). The effectiveness of Problem Based Learning - Physics module with authentic assessment for enhancing senior high school students' physics problem solving ability and critical thinking ability. *Journal of Physics: Conference Series*, *1171*(1), 0–6. <https://doi.org/10.1088/1742-6596/1171/1/012027>
- Suastra, I Wayan. (2010). Model Pembelajaran Sains Berbasis Budaya Lokal Untuk Mengembangkan Kompetensi Dasar Sains dan Nilai Kearifan Lokal di SMP. *Jurnal Pendidikan Dan Pembelajaran*, *43*(2), 8–16.
- Suastra, I Wayan. (2017). Balinese Local Wisdoms and their Implications in Science Education at School. *International Research Journal of Management, IT & Social Sciences*, *4*(2), 48–57. <https://doi.org/10.21744/irjmis.v4i2.389>
- Suastra, I Wayan. (2018). Peran Guru dalam Pengembangan Karakter Siswa untuk Menjaga Keutuhan dan Kemajuan Bangsa Indonesia (The Role of the Teacher in Student Character Development to Maintain the Integrity and Progress of the Indonesian Nation). *Maha Widya Bhuwana*, *1*(1), 71–80.
- Suastra, I Wayan. (2019). Integrasi Kearifan Lokal dalam Pembelajaran Fisika dalam Rangka Menyiapkan Sumber Daya Manusia Berkarakter Kuat Menyongsong Era Revolusi Industri 4.0. *Seminar Nasional Pendidikan: Program Studi Pendidikan Fisika FKIP ULM*, 1–12. <http://snpfmotogpe.ulm.ac.id/proceeding/index.php/snpf/article/view/40>
- Suastra, I Wayan, & 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>
- Suastra, I Wayan, Jatmiko, B., Ristiati, N. P., & Yasmini, L. P. B. (2017). Developing characters based on local wisdom of bali in teaching physics in senior high school. *Jurnal Pendidikan IPA Indonesia*, *6*(2), 306–312. <https://doi.org/10.15294/jpii.v6i2.10681>
- Suastra, I Wayan, Rapi, N. K., Yasa, P., & Arjana, I. G. (2021). Elaborating Indigenous Science Content into Science Learning Process: A New Science

Instructional Model to Develop Students' Local Wisdom-Based Characters and Higher Order Thinking Skills. *JPI (Jurnal Pendidikan Indonesia)*, 10(3), 516. <https://doi.org/10.23887/jpi-undiksha.v10i3.31176>

Suastra, I Wayan, & Ristiati, N. P. (2019). Developing Critical Thinking, Scientific Attitude, and Self-efficacy in Students through Project Based Learning and Authentic Assessment in Science Teaching at Junior High School. *Journal of Physics: Conference Series*, 1233(1). <https://doi.org/10.1088/1742-6596/1233/1/012087>

Sudarmin, Pujiastuti, S. E., Asyhar, R., Prasetya, A. T., Diliarosta, S., & Ariyatun. (2023). Chemistry Project-Based Learning for Secondary Metabolite Course With Ethno-Stem Approach To Improve Students' Conservation and Entrepreneurial Character in the 21St Century. *Journal of Technology and Science Education*, 13(1), 393–409. <https://doi.org/10.3926/jotse.1792>

Sudarmin, S., Sumarni, W., Rr Sri Endang, P., & Sri Susilogati, S. (2019). Implementing the model of project-based learning : integrated with ETHNO-STEM to develop students' entrepreneurial characters. *Journal of Physics: Conference Series*, 1317(1), 1–8. <https://doi.org/10.1088/1742-6596/1317/1/012145>

Sudarmin, S., Zahro, L., Pujiastuti, S. E., Asyhar, R., Zaenuri, Z., & Rosita, A. (2019). The development of PBL-based worksheets integrated with green chemistry and ethnoscience to improve students' thinking skills. *Jurnal Pendidikan IPA Indonesia*, 8(4), 492–499. <https://doi.org/10.15294/jpii.v8i4.17546>

Sudarmin, Sudarmin, Prasetya, A. T., Mahatmanti, W., Dewi, S. H., & Pujiastuti, R. S. E. (2022). Pelatihan Pembelajaran Proyek Terintegrasi Etno-Stem Untuk Pembuatan Teh Herbal Hutan Tropis Sebagai Imunitas Tubuh Covid-19. *Journal of Community Empowerment*, 2(2), 44–46. <https://doi.org/10.15294/jce.v2i2.58999>

Sudarmin, & Sumarni, W. (2018). Increasing character value and conservation behavior through integrated ethnoscience chemistry in chemistry learning: A Case Study in the Department of Science Universitas Negeri Semarang. *IOP*

- Conference Series: Materials Science and Engineering*, 349(1).
<https://doi.org/10.1088/1757-899X/349/1/012061>
- Sudiatmika, A. A. I. A. R., Suardana, I. N., Devi, N. L. P. L., Ristiati, N. P., & Parwata, K. Y. L. (2019). The influence of peers, parents, and teachers in superior students learning problem. *Journal of Physics: Conference Series*, 1317(1), 1–8. <https://doi.org/10.1088/1742-6596/1317/1/012214>
- Sudiatmika, A. A. I. A. R., & Subagia, I. W. (2022). Profil Miskonsepsi Mahasiswa Prodi S2 Pendidikan IPA pada Materi Optik menggunakan Tes Diagnostik Four Tier Test. *Jurnal Matematika, Sains, Dan Pembelajarannya*, 16(2), 47.
- Sue, D. W., Arredondo, P., & McDavis, R. J. (1992). Multicultural Counseling Competencies and Standards: A Call to the Profession. *Journal of Counseling & Development*, 70(4), 477–486. <https://doi.org/10.1002/j.1556-6676.1992.tb01642.x>
- Sueb, & Damayanti, J. (2021). The effect of macrozoobenthos diversity module based on problem-based learning on junior high school students' environmental attitudes. *Jurnal Pendidikan IPA Indonesia*, 10(3), 400–406. <https://doi.org/10.15294/JPII.V10I3.30766>
- Sulaiman, T., Muniyan, V., Madhvan, D., Hasan, R., Syrene, S., & Rahim, A. (2017). Implementation of Higher Order Thinking Skills in Teaching Of Science : A Case Study in Malaysia. *International Research of Education and Sciences*, 1(1), 1–3.
- 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: ICIGR Conference Proceedings, 2022(March 2020)*, 46–59. <https://doi.org/10.18502/kss.v7i10.11208>
- Suma, K., Sadia, I. W., & Pujani, N. M. (2019). The Effect of lesson Study on Science Teachers Pedagogical Content Knowledge and Self Efficacy. *International Journal on New Trends in Education and Their Implications*, 10(4), 1–11. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84865607390&partnerID=tZOtx3y1%0Ahttp://books.google.com/books?hl=>

en&lr=&id=2LIMMD9FVXkC&oi=fnd&pg=PR5&dq=Principles+of+Digital+Image+Processing+fundamental+techniques&p;ots=HjrHeuS_

- Suma, K., Wayan Sadia, I., Made Pujani, N., & Ketut Rapi, N. (2019). Investigating students' preconception of some electromagnet topics. *Journal of Physics: Conference Series*, 1317(1), 1–6. <https://doi.org/10.1088/1742-6596/1317/1/012203>
- Suwartaya, Anggraeni, E., Rujiyati, Saputra, S., & Setyaningsih, D. A. (2020). Panduan Pengembangan Bahan Ajar Pembelajaran Jarak Jauh (BA-PJJ) Sekolah Dasar. In *Dinas Pendidikan Kota Pekalongan* (p. 28). https://dindik.pekalongankota.go.id/upload/file/file_20201112020750.pdf
- Syafii, M. L., Buntoro, G. A., Sugianto, A., Nurohman, N., & Sutanto, S. (2022). A Conceptual Model of Culture-Based English Learning Materials in Indonesia. *International Journal of Learning, Teaching and Educational Research*, 21(10), 50–63. <https://doi.org/10.26803/ijlter.21.10.3>
- Syamaun, S. (2019). Pengaruh Budaya Terhadap Sikap dan Perilaku Keberagaman. *At-Taujih: Bimbingan Dan Konseling Islam*, 2(2), 81–95.
- Tabi'in, A. (2017). Menumbuhkan Sikap Peduli Pada Anak Melalui Interaksi Kegiatan Sosial. *IJTIMAIYA: Journal of Social Science Teaching*, 1(1). <https://doi.org/10.21043/ji.v1i1.3100>
- Tabor, S. W. (2016). Making mobile learning work: Student perceptions and implementation factors. *Journal of Information Technology Education: Innovations in Practice*, 15(1), 75–98.
- Tasri, L. (2011). Pengembangan Bahan Ajar Berbasis Web. *Jurnal MEDTEK*, 3(2), 1–8.
- Thiagarajan, S., Semmel, D. S., & Semmel, M. I. (1976). Instructional development for training teachers of exceptional children: A sourcebook. In *Indiana University*. [https://doi.org/10.1016/0022-4405\(76\)90066-2](https://doi.org/10.1016/0022-4405(76)90066-2)
- Tian, X., Zhang, G., & Park, K. H. (2022). The Influence of English Literacy on High School Students' Academic Achievement. *International Journal of Learning, Teaching and Educational Research*, 21(9), 477–493.

<https://doi.org/10.26803/ijlter.21.9.26>

- Ural, E. (2016). The Effect of Guided-Inquiry Laboratory Experiments on Science Education Students' Chemistry Laboratory Attitudes, Anxiety and Achievement. *Journal of Education and Training Studies*, 4(4), 217–227. <https://doi.org/10.11114/jets.v4i4.1395>
- Veide, Z., & Strozeva, V. (2013). Effect of augmented reality technology on spatial skills of students. *The 12 Th International Conference on Engineering Graphics*, 17(24), 131–143. https://www.academia.edu/10052478/EFFECT_OF_AUGMENTED_REALITY_TECHNOLOGY_ON_SPATIAL_SKILLS_OF_STUDENTS?auto=download
- Verawati, N. N. S. P., Harjono, A., Wahyudi, W., & Gummah, S. (2022). Inquiry-Creative Learning Integrated with Ethnoscience: Efforts to Encourage Prospective Science Teachers' Critical Thinking in Indonesia. *International Journal of Learning, Teaching and Educational Research*, 21(9), 232–248. <https://doi.org/10.26803/ijlter.21.9.13>
- Wagiran. (2012). Pengembangan karakter berbasis kearifan lokal Hamemayu Hayuning Bawana (Identifikasi Nilai-Nilai Karakter Berbasis Budaya). *Jurnal Pendidikan Karakter*, 2(3), 329–339.
- Wahyu, Y. (2017). Pembelajaran berbasis etnosains di sekolah dasar. *Jurnal Inovasi Pendidikan Dasar*, 1(2), 140–147.
- Wahyudi, A., Ariyani, Y. D., Rochaendi, E., & Apriyanti. (2021). Posisi Keterampilan Berpikir Kritis dan Keterampilan Berpikir Kreatif dalam Pendidikan Sains. *Jurnal Zarah*, 9(1), 8–14.
- Wahyuni, S. (2015). Developing Science Learning Instruments Based On Local Wisdom To Improve Students ' Critical Thinking Skills. *Jurnal Pendidikan Fisika Indonesia*, 11(1), 1–7.
- Wardani, S., Lindawati, L., & Kusuma, S. B. W. (2017). The development of inquiry by using android-system-based chemistry board game to improve learning outcome and critical thinking ability. *Jurnal Pendidikan IPA Indonesia*, 6(2), 196–205. <https://doi.org/10.15294/jpii.v6i2.8360>

- Waryana. (2021). Penerapan Model Pembelajaran Flipped Classroom Berbantuan Google Sites untuk Meningkatkan Keaktifan dan Hasil Belajar IPS. *EDUTECH : Jurnal Inovasi Pendidikan Berbantuan Teknologi*, 1(3), 259–267.
- Weber, A. S. (2016). Web-Based Learning in Qatar and the GCC States. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.2825912>
- Weissman, J. S., Betancourt, J., Campbell, E. G., Park, E. R., Kim, M., Clarridge, B., Blumenthal, D., Lee, K. C., & Maina, A. W. (2005). Resident Physicians' Preparedness to Provide Cross-Cultural Care. *American Medical Association*, 294(9).
- Wibawanto, H., & Sahid. (2010). Panduan Pengembangan Bahan Ajar Berbasis Web. In *Dirjendikti* Jakarta. http://file.upi.edu/Direktori/FIP/JUR._KURIKULUM_DAN_TEK._PENDIDIKAN/194601291981012-PERMASIH/PENGEMBANGAN_BAHAN_AJAR.pdf
- Widiaty, I., Riza, L. S., Ana, Abdullah, A. G., Abdullah, M., & Mubaroq, S. R. (2019). Web-based digital learning application of iconic batik in batik learning at vocational high school. *Journal of Engineering Science and Technology*, 14(5), 2475–2484.
- Widodo, W., Sudiby, E., Suryanti, Sari, D. A. P., Inzanah, & Setiawan, B. (2020). The effectiveness of gadget-based interactive multimedia in improving generation z's scientific literacy. *Jurnal Pendidikan IPA Indonesia*, 9(2), 248–256. <https://doi.org/10.15294/jpii.v9i2.23208>
- Wikanta, W., & Susilo, H. (2022). Higher Order Thinking Skills Achievement for Biology Education Students in Case-Based Biochemistry Learning. *International Journal of Instruction*, 15(4), 835–854. <https://doi.org/10.29333/iji.2022.15445a>
- Wiwik Ernawati, M. D., Sudarmin, S., Asrial, A., Haryanto, H., Azzahra, M. Z., & Triani, E. (2022). A study of attitude and interest in the student's lessons. *Cypriot Journal of Educational Sciences*, 17(6), 1901–1913. <https://doi.org/10.18844/cjes.v17i6.7484>

- Wu, W. H., Jim Wu, Y. C., Chen, C. Y., Kao, H. Y., Lin, C. H., & Huang, S. H. (2012). Review of trends from mobile learning studies: A meta-analysis. *Computers and Education*, 59(2), 817–827. <https://doi.org/10.1016/j.compedu.2012.03.016>
- Khafaj, E., Qendraj, D. H., Khafaj, A., & Halidini, E. (2021). Analysis and evaluation of factors affecting the use of google classroom in Albania: A partial least squares structural equation modelling approach. *Mathematics and Statistics*, 9(2), 112–126. <https://doi.org/10.13189/ms.2021.090205>
- Xiao, J. (2010). *Cultural Contents of an in-use EFL Textbook and English Major Students' Attitudes and Perceptions towards Culture Learning at Jiangxi University of Science and Technology, China* Jing Xiao A Thesis Submitted in Partial Fulfillment of the Requirements for. Prince of Songkla University 2010.
- Yağcı, M. (2018). Impact of the individual innovativeness characteristics on success and contentment at the computer programming course: A web-based blended learning experience. *Malaysian Online Journal of Educational Technology*, 6(4), 29–39. <https://doi.org/10.17220/mojet.2018.04.003>
- Yılmaz, S. S., Yıldırım, A., & İlhan, N. (2022). Effects of the Context-Based Learning Approach on the Teaching of Chemical Changes Unit. *Journal of Turkish Science Education*, 19(1), 218–236. <https://doi.org/10.36681/tused.2022.119>
- Yuliati, S. R., & Lestari, I. (2018). Higher-Order Thinking Skills (HOTS) Analysis Of Students In Solving Hots Question In Higher Education. *Perspektif Ilmu Pendidikan*, 32(2), 181–188.
- Yusuf, R., Sanusi, Razali, Maimun, Putra, I., & Fajri, I. (2020). Tinjauan Literasi Budaya dan Kewargaan Siswa SMA Se-Kota Banda Aceh. *Jurnal Pendidikan Kewarganegaraan Undiksha*, 8(2), 157–167. <https://www.google.com/url?sa=t&source=web&rct=j&url=https://ejournal.undiksha.ac.id/index.php/JJPP/article/view/25434&ved=2ahUKEwic5fep2PHsAhUSeYKHU8fBGQQFjAAegQICRAC&usg=AOvVaw3Tezzh5erg5X3r51XrDwtW>

- Zakiah, N. A., & Sudarmin. (2022). Development of E-Module STEM integrated Ethnoscience to Increase 21st Century Skills. *International Journal of Active Learning*, 7(1), 49–58. <http://journal.unnes.ac.id/nju/index.php/ijal>
- Zhang, C. (2023). Influences of Problem-Based Online Learning on the Learning Outcomes of Learners. *IJET*, 18(01), 152–163.
- Zulfitriah, Z., & Eliza, D. (2020). Pengembangan Science Book Anak untuk Pengenalan Literasi dan Karakter Berbasis Budaya Alam Minangkabau. *Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini*, 5(2), 1567–1577. <https://doi.org/10.31004/obsesi.v5i2.896>

